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Unicode® 2 Series Polyamide Control Stations

Increased Safety

Polyamide

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- For use in IEC governed hazardous areas.
- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.
- For use in washdown areas.

Features

- Employs Ex de method of protection which eliminates the need for external seals.
- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches and LED pilot lights.
- Pilot light employs high intensity single LED with lifetime of 100,000 hours that can be used at:
 - 12 Vac to 254 Vac 50/60 Hz
 - 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- Contact block technical data:
 - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
 - IEC switching capacity:
 - AC12: 16 Amp/400 Vac
 - AC14: 10 Amp/400 Vac
 - AC15: 6 Amp/500 Vac
 - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
- Selector switch technical data:
 - IEC rated operating voltage: 690 Vac
 - IEC rated operating current: maximum 16 Amp
 - IEC switching capacity:
 - AC1: 16 Amp/690 Vac
 - AC15: 16 Amp/415 Vac
 - AC3: 8 Amp/500 Vac
 - AC3: 4 Amp/690 Vac
 - AC3: 16 Amp/690 Vac
 - DC1: 10 Amp/24 Vdc
 - DC1: 6 Amp/60 Vdc
 - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC1: 6 Amp/220 Vdc (3 contacts in series)
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced so as to have easy and ample space for wiring.
- Wide selection of termination methods available.
- Choice of DIN rail mounted high performance contact block suitable for low intensity (less than 5mA).
- TS35 rail mounted components held securely in place during operation and easily removed for service.



U43W2 VA13A5A9



U42W2 A5A9

- Brass Inserts are provided for TS35 DIN rails or mounting plate to be installed inside the enclosure.
- Captive, corrosion resistant stainless steel cover screws.

Standard Materials

- Body, cover, cable gland and blanking plug: polyamide, black finish
- Cover screws: stainless steel
- Optional nameplates: stainless steel

Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- M5 earth stud.
- Combination drain and breather available in brass, polyamide and stainless steel.

Options

- Nameplates: Lamacoid with different color combinations.
- Padlocking facility at left, center, right or any position on selector switches.
- Padlocking facility for momentary and maintained push buttons.
- Special contact arrangements available, see *Unicode 2 Series Customized Control Stations*.

Unicode® 2 Series Polyamide Control Stations

Increased Safety

Polyamide

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Certification and Compliances

◆ ATEX Certification

• Certification Type PCe

- Gas: Zone 1 and 2
- Conforming to ATEX 94/9/CE: Ⓔ II 2 G
- Type of Protection: Ex de IIC / Ex demb IIC (depending of the actuator)
- Temperature class: T6
- Dust: Zone 21 and 22
- Conforming to ATEX 94/9/CE: Ⓔ II2 D
- Type of Protection: Ex tD A21
- Surface Temperature: T75 °C
- Ambient Temperature: -20 °C to +55 °C
- CE Declaration of Conformity: 50221
- ATEX Certificate: LCIE 00 ATEX 6047
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK09

◆ EURASEC Certification

- EURASEC RU C-FR Г5 05.B.00911

◆ Others Certification ①

- INMETRO Certificate: BVC 11.0640-X

① Inmetro certification available on special request only. Contact your local sales for more information.

Unicode® 2 Series Polyamide Control Stations

Increased Safety

Polyamide

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 1 Polyamide Control Station:

Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm], 2 locknuts.



Description/Function		Diagram	Bottom Entries	Weight kg	Volume dm³	Catalog Number
Momentary Push Button						
	Green insert 'I' + red insert 'O' with 1NO + 1NC momentary contacts		2 x M20	0.48	2.5	U41W2A3
	1x green push button "I" with 1NO momentary contact		2 x M20	0.48	2.5	U41W2A5
	1x red push button "O" with 1NC momentary contact		2 x M20	0.48	2.5	U41W2A9
Emergency Stop						
	Red mushroom head push-pull 1NC maintained contact		2 x M20	0.48	2.5	U41W2D9
	Red mushroom head push-pull 1NO + 1NC maintained contacts		2 x M20	0.48	2.5	U41W2D3
	Red mushroom head key release 1NC maintained contact		2 x M20	0.48	2.5	U41W2C9
	Red mushroom head key release 1NO + 1NC maintained contacts		2 x M20	0.48	2.5	U41W2C3
Mushroom Head Push Button						
	Black mushroom head push button 1NO + 1NC momentary contacts		2 x M20	0.48	2.5	U41W2B3
	Red mushroom head push button 1NC momentary contact		2 x M20	0.48	2.5	U41W2R9
Key Push Button						
	With key removable in both positions 1NO + 1NC maintained contacts		2 x M20	0.48	2.5	U41W2E3

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Polyamide Control Stations

Increased Safety

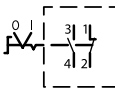
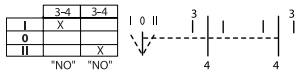
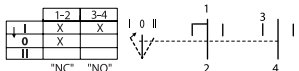
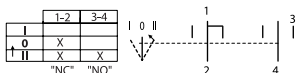
Polyamide

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 1 Polyamide Control Station:

Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm], 2 locknuts.



Description/Function		Diagram	Bottom Entries	Weight kg	Volume dm ³	Catalog Number
Pilot Light						
	1x red pilot light ①		2 x M20	0.48	2.5	U41W2PR
	1x green pilot light ①		2 x M20	0.48	2.5	U41W2PG
	1x blue pilot light ①		2 x M20	0.48	2.5	U41W2PB
	1x yellow pilot light ①		2 x M20	0.48	2.5	U41W2PY
	1x white pilot light ①		2 x M20	0.48	2.5	U41W2PW
2-Position Selector Switch						
	2 fixed positions ' 0 - I ' 1NO + 1NC contacts		2 x M20	0.48	2.5	U41W2H3
3-Position Selector Switch						
	3 fixed positions ' I - 0 - II ' 2NO contact		2 x M20	0.48	2.5	U41W2J1
	3 positions ' I - 0 - II ' With spring return from I to 0 1NO + 1NC contacts		2 x M20	0.48	2.5	U41W2N3
	3 positions ' I - 0 - II ' With spring return from II to 0 1NO + 1NC contacts		2 x M20	0.48	2.5	U41W2M3

Size 2 Polyamide Control Station:

Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm], 2 locknuts.



Description/Function	Diagram	Bottom Entries	Weight kg	Volume dm³	Catalog Number
Twin Push Button					
1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts		2 x M20	0.62	2.5	U42W2A5A9
1x green push button 'I' with 1NO + 1NC contacts 1x red push button 'O' with 1NO + 1NC contacts Momentary contacts		2 x M20	0.62	2.5	U42W2A3A3

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Polyamide Control Stations

Increased Safety

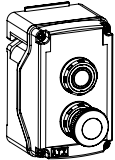
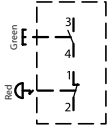
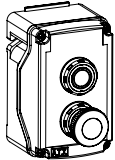
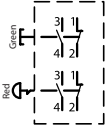
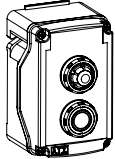
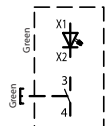
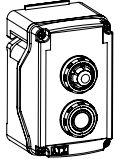
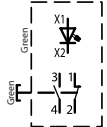
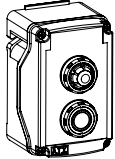
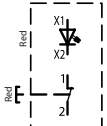
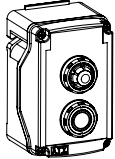
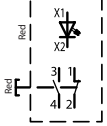
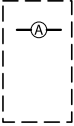
Polyamide

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 2 Polyamide Control Station:

Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm], 2 locknuts.



Description/Function	Diagram	Bottom Entries	Weight kg	Volume dm³	Catalog Number
Push Button + Push-Pull Emergency Stop					
 1x green push button 'I' with 1NO momentary contact 1x red mushroom head push-pull with 1NC maintained contact		2 x M20	0.62	2.5	U42W2A5D9
 1x green push button 'I' with 1NO + 1NC momentary contacts 1x red mushroom head push-pull with 1NO + 1NC maintained contacts		2 x M20	0.62	2.5	U42W2A3D3
Push Button + Push-Pull Emergency Stop					
 1x green light ① 1x green push button 'I' with 1NO momentary contact		2 x M20	0.62	2.5	U42W2PGA5
 1x green light ① 1x green push button 'I' with 1NO + 1NC momentary contacts		2 x M20	0.62	2.5	U42W2PGA3
 1x red light ① 1x red push button 'O' with 1NC momentary contact		2 x M20	0.62	2.5	U42W2PRA9
 1x red light ① 1x red push button 'O' with 1NO + 1NC momentary contacts		2 x M20	0.62	2.5	U42W2PRA3
Ammeter					
 1x ammeter 48 x 48 mm, 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale		2 x M20	0.56	2.5	U42W2VA13

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Polyamide Control Stations

Increased Safety

Polyamide

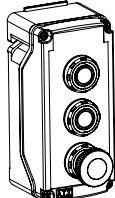
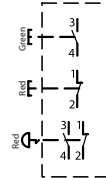
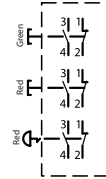
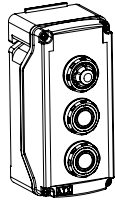
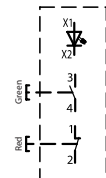
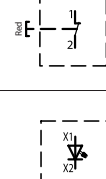
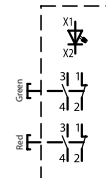
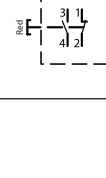
Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 3 Polyamide Control Station:

Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm], 2 locknuts.



Description/Function		Diagram	Bottom Entries	Weight kg	Volume dm³	Catalog Number
Twin Push Buttons + Push-Pull Emergency Stop						
	1x green push button 'I' with 1NO contacts 1x red push button 'O' with 1NC contact Momentary contacts 1x red mushroom head push-pull emergency button with 1NO + 1NC maintained contacts		2 x M20	0.78	2.5	U43W2A5A9D3
	1x green push button 'I' with 1NO + 1NC contacts 1x red push button 'O' with 1NO + 1NC contacts Momentary contacts 1x red mushroom head push-pull emergency button with 1NO + 1NC maintained contacts		2 x M20	0.78	2.5	U43W2A3A3D3
Pilot Light + Twin Push Buttons						
	1x green light ① 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts		2 x M20	0.78	2.5	U43W2PGA5A9
	1x red light ① 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NO contact Momentary contacts		2 x M20	0.78	2.5	U43W2PRA5A9
	1x green light ① 1x green push button 'I' with 1NO + 1NC contacts 1x red push button 'O' with 1NO + 1NC contacts Momentary contacts		2 x M20	0.78	2.5	U43W2PGA3A3
	1x red light ① 1x green push button 'I' with 1NO + 1NC contacts 1x red push button 'O' with 1NO + 1NC contacts Momentary contacts		2 x M20	0.78	2.5	U43W2PRA3A3

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Polyamide Control Stations

Increased Safety

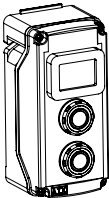
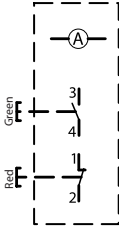
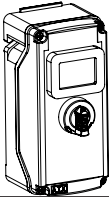
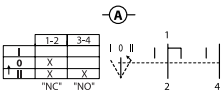
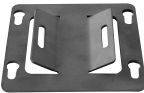
Polyamide

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 3 Polyamide Control Station:

Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm], 2 locknuts.



Description/Function		Diagram	Bottom Entries	Weight kg	Volume dm³	Catalog Number
Ammeter + Twin Push Button						
	1x ammeter 48 x 48 mm, 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts		2 x M20	0.80	2.5	U43W2VA13A5A9
Ammeter + 3-Position Selector Switch						
	1x ammeter 48 x 48 mm, 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale 1x 3-position selector switch 'I - 0 - II' with spring return from II to 0 1NO + 1NC contacts		2 x M20	0.80	2.5	U43W2VA13M3
Special Accessories for Polyamide Enclosure						
	Brass Earthing Plate for 2 x M20		Equipped with 2 earth connections		098661	
	Tube or Frame Fixing		FOR SIZE 1 ONLY For all tube diameter ≥ 80 mm Using a metal strip (not supplied) maximum width 22 mm		098656	

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Polyamide Control Stations

Increased Safety

Polyamide

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Nameplates — Set of 10

Blank self-adhesive, laminated plastic 58 mm x 18 mm.

Color	Catalog Number	Pack
White (black letters)	UNPW	1
Yellow (black letters)	UNPY	1
Red (white letters)	UNPR	1
Blue (white letters)	UNPB	1
Black (white letters)	UNPN	1
Green (white letters)	UNPG	1

Inserts for Push Button — Set of 5

Marking	Color	Catalog Number	Pack
(unmarked)	Green	UIAG	1
(unmarked)	Red	UIAR	1
(unmarked)	Yellow	UIAY	1
(unmarked)	White	UIAW	1
(unmarked)	Blue	UIAB	1
(unmarked)	Black	UIAN	1
ON	Green	UIA01	1
OFF	Red	UIA02	1
START	Green	UIA03	1
STOP	Red	UIA04	1
MARCHE	Green	UIA05	1
ARRET	Red	UIA06	1
I	Green	UIA07	1
O	Red	UIA08	1

Inserts for Illuminated Push Button — Set of 5

Marking	Color	Catalog Number	Pack
(unmarked)	Green	UILG	1
(unmarked)	Red	UILR	1
(unmarked)	Yellow	UILY	1
(unmarked)	White	UILW	1
(unmarked)	Blue	UILB	1
ON	Green	UIL01	1
OFF	Red	UIL02	1
START	Green	UIL03	1
STOP	Red	UIL04	1
MARCHE	Green	UIL05	1
ARRET	Red	UIL06	1
I	Green	UIL07	1
O	Red	UIL08	1

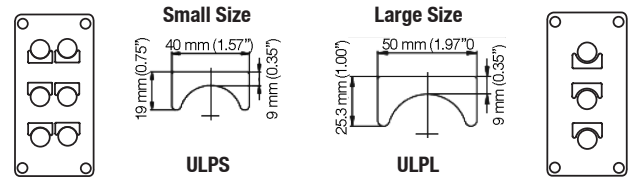
Spare Key

For all key-operated buttons.

Description	Catalog Number	Pack
Spare key type 4 A 185	SK4A185	1

Standard Legend Plates

Two sizes available. Self-adhesive yellow laminated plastic (black lettering).



Text	Catalog Number		Pack
	Small	Large	
Blank (set of 10)	ULPS	ULPL	1
ON	ULPSA01	ULPLA01	1
OFF	ULPSA02	ULPLA02	1
FORWARD	ULPSA03	ULPLA03	1
REVERSE	ULPSA04	ULPLA04	1
JOG	ULPSA05	ULPLA05	1
RUN	ULPSA06	ULPLA06	1
START	ULPSA07	ULPLA07	1
STOP	ULPSA08	ULPLA08	1
UP	ULPSA09	ULPLA09	1
DOWN	ULPSA10	ULPLA10	1
FAST	ULPSA11	ULPLA11	1
SLOW	ULPSA12	ULPLA12	1
RAISE	ULPSA13	ULPLA13	1
LOWER	ULPSA14	ULPLA14	1
OPEN	ULPSA15	ULPLA15	1
CLOSE	ULPSA16	ULPLA16	1
LOW	ULPSA17	ULPLA17	1
HIGH	ULPSA18	ULPLA18	1
TEST	ULPSA19	ULPLA19	1
RESET	ULPSA20	ULPLA20	1
EMERGENCY STOP	ULPSA21	ULPLA21	1
MARCHE	ULPSA22	ULPLA22	1
ARRET	ULPSA23	ULPLA23	1
ARRET D'URGENCE	ULPSA24	ULPLA24	1
HAUT	ULPSA25	ULPLA25	1
BAS	ULPSA26	ULPLA26	1
O - I	ULPSH01	ULPLH01	1
ON - OFF	ULPSH02	ULPLH02	1
START - STOP	ULPSH03	ULPLH03	1
STOP - START	ULPSH04	ULPLH04	1
HAND - AUTO	ULPSH05	ULPLH05	1
MANU - AUTO	ULPSH06	ULPLH06	1
FORWARD - REVERSE	ULPSH07	ULPLH07	1
REMOTE - LOCAL	ULPSH08	ULPLH08	1
MARCHE - ARRET	ULPSH09	ULPLH09	1
I - O - II	ULPSJ01	ULPLJ01	1
OFF - O - ON	ULPSJ02	ULPLJ02	1
START - NORMAL - STOP	ULPSJ03	ULPLJ03	1
HAND - OFF - AUTO	ULPSJ04	ULPLJ04	1
MANU - O - AUTO	ULPSJ05	ULPLJ05	1
FORWARD - OFF - REVERSE	ULPSJ06	ULPLJ06	1
LOCAL - REMOTE - AUTO	ULPSJ07	ULPLJ07	1
LOCAL - O - REMOTE	ULPSJ08	ULPLJ08	1
MARCHE - NORMAL - ARRET	ULPSJ09	ULPLJ09	1

Controls

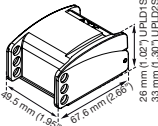
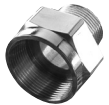
CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Polyamide Control Stations

Increased Safety

Polyamide

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Description		Catalog Number
	Additional Contacts	
	Each actuator is capable of activating 3 contacts. Exception: Illuminated push button and all actuators with key: 2 contacts maximum	
	1NO contact 1NC contact	UCB5R UCB9R
	Yellow Guard	
	Mushroom head protection for emergency stop	098657
	Padlockable Guard	
	Stainless steel and plastic cover, capacity: 3 padlocks diameter 6 mm maximum (not supplied)	
	For push button and rotary actuator	UPLD1S
	For mushroom head actuator	UPLD2S
	Cable Gland Exe	
	For unarmored cable Exe - IP66 - in polyamide entry thread seal	
	M20 (capacity 6.5-14.5 mm)	095605
	For armored cable Exe/Exd - IP66 - in nickel plated brass (without entry thread seal)	
	Braid and Tape type:	
	M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)	20E1FX5
	Single Wired Armor (SWA):	
	M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)	20E1FW5
	Adaptors	
	Exd/Exe - IP66 in nickel plated brass (without entry thread seal)	
	Male M20 - Female 1/2" NPT	737DM2T15
	Male M20 - Female 3/4" NPT	737DM2T25
	Entry Thread Seal	
	M20 (in white nylon)	20ETS2
	Combination Drain and Breather	
	Exe - IP66 - supplied with entry thread seal and locknut	
	M20 male thread in Polyamide	DBE20P
	M20 male thread in Brass	DBE20B
	M20 male thread in Stainless Steel	DBE20S
	Feed-Thru Earth Stud Terminal	
	Exe - IP66 - supplied with weatherproof seal and green/yellow earth conductor — 300 mm length	
	M20 with M5 earth and 2.5 mm² conductor	PREESTM20

Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Polyamide Control Stations

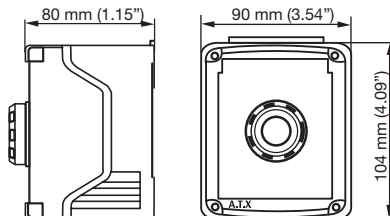
Increased Safety

Polyamide

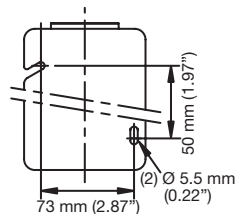
Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

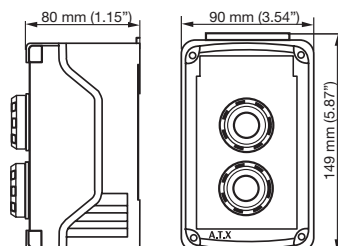
Dimensions in Millimeters



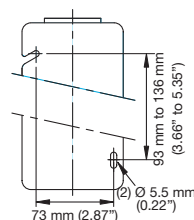
Size 1 Enclosure



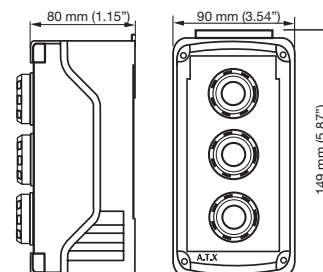
Size 1 Mounting/Fixing Details



Size 2 Enclosure



Size 2 and 3 Mounting/Fixing Details



Size 3 Enclosure

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.
- For use in washdown areas.

Features

- Employs Ex de method of protection which eliminates the need for external seals.
- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches and LED pilot lights.
- Pilot light employs high intensity single LED with lifetime of 100,000 hours that can be used at:
 - 12 Vac to 254 Vac 50/60 Hz
 - 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- Contact block technical data:
 - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
 - IEC switching capacity:
 - AC12: 16 Amp/400 Vac
 - AC14: 10 Amp/400 Vac
 - AC15: 6 Amp/500 Vac
 - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
- Selector switch technical data:
 - IEC rated operating voltage: 690 Vac
 - IEC rated operating current: maximum 16 Amp
 - IEC switching capacity:
 - AC1: 16 Amp/690 Vac
 - AC15: 16 Amp/415 Vac
 - AC3: 8 Amp/500 Vac
 - AC3: 4 Amp/690 Vac
 - AC3: 16 Amp/690 Vac
 - DC1: 10 Amp/24 Vdc
 - DC1: 6 Amp/60 Vdc
 - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC1: 6 Amp/220 Vdc (3 contacts in series)
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced so as to have easy and ample space for wiring.
- Wide selection of termination methods available.
- Choice of DIN rail mounted high performance contact block suitable for low intensity (less than 5mA).
- TS35 rail mounted components held securely in place during operation and easily removed for service.
- Brass Inserts are provided for TS35 DIN rails or mounting plate to be installed inside the enclosure.
- Captive, corrosion resistant stainless steel cover screws.



U22W2 PGA5
Fiberglass Reinforced Polyester

Materials

- Body and cover: choice of fiberglass reinforced polyester (FRP) with black finish
- Cover screws for fiberglass reinforced polyester body: 316 stainless steel

Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- M5 and M6 earth stud.
- Combination drain and breather available in brass, polyamide and stainless steel.

Options

- Nameplates: stainless steel or Lamacoid with different color combinations.
- Padlocking facility at left, center, right or any position on selector switches.
- Padlocking facility for momentary and maintained push buttons.
- Special contact arrangements available, see *Unicode 2 Series Customized Control Stations*.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Certification and Compliances

◆ ATEX / IECEx Certification

- Certification Type CSPe (Fiberglass Reinforced Polyester [FRP])
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex de IIC or Ex demb IIC (depending of the actuator)
 - Temperature class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T75 °C
 - Ambient Temperature: -55 °C to +60 °C (empty enclosure)
-20°C or -25°C to +55°C or +60°C depending of the actuator
 - CE Declaration of Conformity: 52084
 - ATEX Certificate: LCIE 00 ATEX 3032X
 - IECEx Certificate: IECEx LCI 09.0016X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10

◆ EURASEC Certification

- EURASEC RU C-FR ГБ 05.В.00911

◆ Others Certification ①

- INMETRO Certificate: BVC 11.0637-X

① Inmetro certification available on special request only. Contact your local sales for more information.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

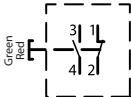
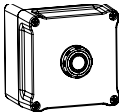
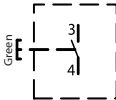
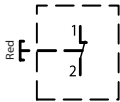
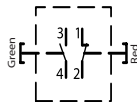
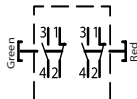
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 1 Polyester Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 1 brass earth continuity plate, 1 blanking plug, 1 cable gland.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Polyester Catalog Number
Momentary Push Button					
1x push buton (with Green insert 'I' + red insert 'O') with 1NO + 1NC momentary contact		2 x M20	1.0	4.0	U21W2A3
		2 x M25	1.0	4.0	U21W4A3
 1x green push button 'I' with 1NO momentary contact		2 x M20	1.0	4.0	U21W2A5
		2 x M25	1.0	4.0	U21W4A5
1x red push button 'O' with 1NC momentary contact		2 x M20	1.0	4.0	U21W2A9
		2 x M25	1.0	4.0	U21W4A9
Twin Momentary Push Buttons					
1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts		2 x M20	1.1	4.0	U21W2A5A9
		2 x M25	1.1	4.0	U21W4A5A9
1x green push button 'I' with 1NO + 1NC contact 1x red push button 'O' with 1NO + 1NC contact Momentary contacts		2 x M20	1.1	4.0	U21W2A3A3
		2 x M25	1.1	4.0	U21W4A3A3

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

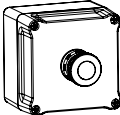
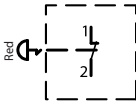
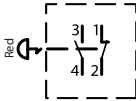
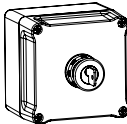
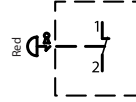
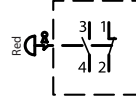
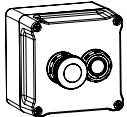
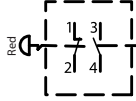
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 1 Polyester Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 1 brass earth continuity plate, 1 blanking plug, 1 cable gland.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm ³	Polyester Catalog Number
Emergency Stop					
		2 x M20	1.0	4.0	U21W2D9
		2 x M25	1.0	4.0	U21W4D9
		2 x M20	1.0	4.0	U21W2D3
		2 x M25	1.0	4.0	U21W4D3
		2 x M20	1.0	4.0	U21W2C9
		2 x M25	1.0	4.0	U21W4C9
		2 x M20	1.0	4.0	U21W2C3
		2 x M25	1.0	4.0	U21W4C3
Push Pull Emergency Stop + Push Button					
		2 x M20	1.1	4.0	U21W2D9A5
		2 x M25	1.1	4.0	U21W4D9A5

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

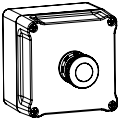
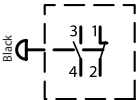
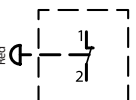
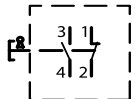
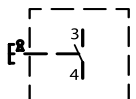
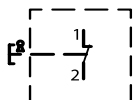
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 1 Polyester Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 1 brass earth continuity plate , 1 blanking plug , 1 cable gland .

Description/Function		Diagram	Bottom Entry	Weight kg	Volume dm ³	Polyester Catalog Number
Mushroom Head Push Button						
	Black mushroom head push button		2 x M20	1.0	4.0	U21W2B3
	1NO + 1NC momentary contact		2 x M25	1.0	4.0	U21W4B3
	Red mushroom head push button		2 x M20	1.0	4.0	U21W2R9
	1NC momentary contact		2 x M25	1.0	4.0	U21W4R9
Key Push Button						
	With key removable in both positions		2 x M20	1.0	4.0	U21W2E3
	1NO + 1NC maintained contact		2 x M25	1.0	4.0	U21W4E3
	With key removable in both positions		2 x M20	1.0	4.0	U21W2E5
	1NO maintained contact		2 x M25	1.0	4.0	U21W4E5
	With key removable in both positions		2 x M20	1.0	4.0	U21W2E9
	1NC maintained contact		2 x M25	1.0	4.0	U21W4E9

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

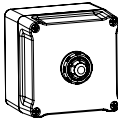
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 1 Polyester Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 1 brass earth continuity plate , 1 blanking plug , 1 cable gland .

Description/Function		Diagram	Bottom Entry	Weight kg	Volume dm³	Polyester Catalog Number
Pilot Light						
	1x red pilot light ①		2 x M20	1.0	4.0	U21W2PR
			2 x M25	1.0	4.0	U21W4PR
	1x green pilot light ①		2 x M20	1.0	4.0	U21W2PG
			2 x M25	1.0	4.0	U21W4PG
	1x blue pilot light ①		2 x M20	1.0	4.0	U21W2PB
			2 x M25	1.0	4.0	U21W4PB
	1x yellow pilot light ①		2 x M20	1.0	4.0	U21W2PY
			2 x M25	1.0	4.0	U21W4PY
	1x white pilot light ①		2 x M20	1.0	4.0	U21W2PW
			2 x M25	1.0	4.0	U21W4PW

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

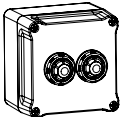
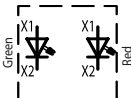
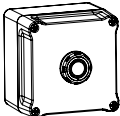
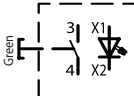
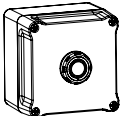
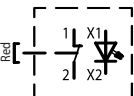
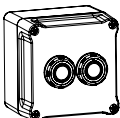
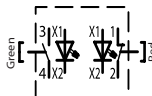
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 1 Polyester Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 1 brass earth continuity plate, 1 blanking plug, 1 cable gland.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm ³	Polyester Catalog Number
Twin Pilot Light					
		2 x M20	1.1	4.0	U21W2PGPR
		2 x M25	1.1	4.0	U21W4PGPR
Illuminated Push Button					
		2 x M20	1.0	4.0	U21W2LG5
		2 x M25	1.0	4.0	U21W4LG5
		2 x M20	1.0	4.0	U21W2LR9
		2 x M25	1.0	4.0	U21W4LR9
Twin Illuminated Push Buttons					
		2 x M20	1.0	4.0	U21W2LG5LR9
		2 x M25	1.0	4.0	U21W4LG5LR9

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

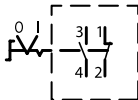
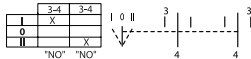
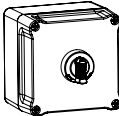
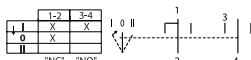
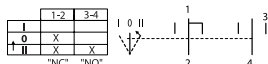
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 1 Polyester Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 1 brass earth continuity plate , 1 blanking plug , 1 cable gland .

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm ³	Polyester Catalog Number
2-Position Selector Switch					
 2 fixed positions '0 - I' 1NO + 1NC contact		2 x M20	1.0	4.0	U21W2H3
		2 x M25	1.0	4.0	U21W4H3
3-Position Selector Switch					
3 fixed positions 'I - 0 - II' 2NO contact		2 x M20	1.0	4.0	U21W2J1
		2 x M25	1.0	4.0	U21W4J1
 3 positions 'I - 0 - II' with spring return from I to 0 1NO + 1NC contact		2 x M20	1.0	4.0	U21W2N3
		2 x M25	1.0	4.0	U21W4N3
3 positions 'I - 0 - II' with spring return from II to 0 1NO + 1NC contact		2 x M20	1.0	4.0	U21W2M3
		2 x M25	1.0	4.0	U21W4M3

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

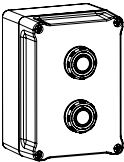
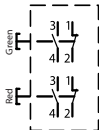
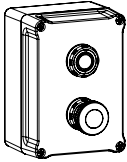
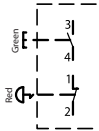
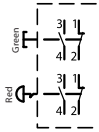
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 2 Polyester Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 1 brass earth continuity plate, 1 blanking plug, 1 cable gland.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Polyester Catalog Number
Twin Push Buttons					
	1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts 	2 x M20	1.2	4.0	U22W2A5A9
		2 x M25	1.2	4.0	U22W4A5A9
	1x green push button 'I' with 1NO + 1NC contact 1x red push button 'O' with 1NO + 1NC contact Momentary contacts 	2 x M20	1.2	4.0	U22W2A3A3
		2 x M25	1.2	4.0	U22W4A3A3
Push Button + Push-Pull Emergency Stop					
	1x green push button 'I' with 1NO momentary contact 1x red mushroom head push-pull with 1NC maintained contact 	2 x M20	1.2	4.0	U22W2A5D9
		2 x M25	1.2	4.0	U22W4A5D9
	1x green push button 'I' with 1NO + 1NC momentary contact 1x red mushroom head push-pull with 1NO + 1NC maintained contact 	2 x M20	1.2	4.0	U22W2A3D3
		2 x M25	1.2	4.0	U22W4A3D3

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

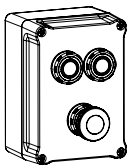
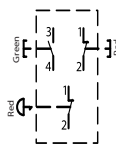
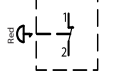
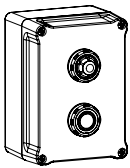
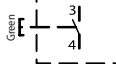
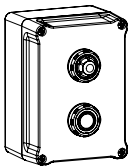
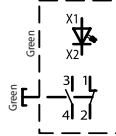
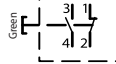
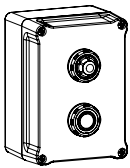
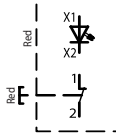
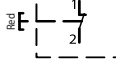
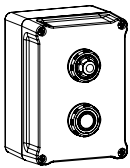
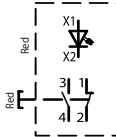
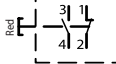
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 2 Polyester Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 1 brass earth continuity plate, 1 blanking plug, 1 cable gland.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Polyester Catalog Number
Twin Push Buttons + Push-Pull Emergency Stop					
 1x green push button 'I' with 1NO contacts 1x red push button 'O' with 1NC contacts Momentary contacts 1x red mushroom head push-pull with 1x NC maintained contact		2 x M20	1.3	4.0	U22W2A5A9D9
		2 x M25	1.3	4.0	U22W4A5A9D9
Pilot Light + Push Button					
 1x green light ① 1x green push button 'I' with 1NO Momentary contact		2 x M20	1.2	4.0	U22W2PGA5
		2 x M25	1.2	4.0	U22W4PGA5
 1x green light ① 1x green push button 'I' with 1NO+ 1NC Momentary contacts		2 x M20	1.2	4.0	U22W2PGA3
		2 x M25	1.2	4.0	U22W4PGA3
 1x red light ① 1x red push button 'O' with 1NC Momentary contact		2 x M20	1.2	4.0	U22W2PRA9
		2 x M25	1.2	4.0	U22W4PRA9
 1x red light ① 1x red push button 'O' with 1NO + 1NC Momentary contact		2 x M20	1.2	4.0	U22W2PRA3
		2 x M25	1.2	4.0	U22W4PRA3

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.
① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

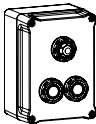
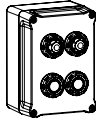
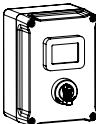
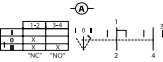
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 2 Polyester Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 1 brass earth continuity plate, 1 blanking plug, 1 cable gland.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Polyester Catalog Number
Pilot Light + Twin Push Buttons ④					
 1x green light ④ 1x green push button 'I' with 1NO 1x red push button 'O' with 1NC Momentary contacts		2 x M20	1.3	4.0	U22W2PGA5A9
		2 x M25	1.3	4.0	U22W4PGA5A9
Twin Pilot Lights + Twin Push Buttons					
 1x green light ① 1x red light ① 1x green push button 'I' with 1NO 1x red push button 'O' with 1NC Momentary contacts		2 x M20	1.3	4.0	U22W2PGPRA5A9
		2 x M25	1.3	4.0	U22W4PGPRA5A9
Ammeter + 3-Position Selector Switch					
 1x ammeter 48 x 48 mm, 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale 1x switch 3 positions 'I - 0 - II' with spring return from II to 0 1NO + 1NC contact		2 x M20	1.2	4.0	U22W2VA13M3
		2 x M25	1.2	4.0	U22W4VA13M3

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

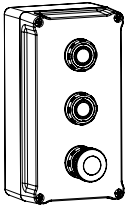
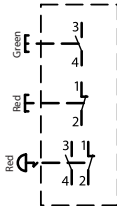
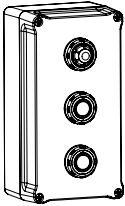
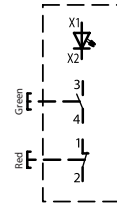
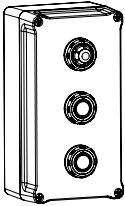
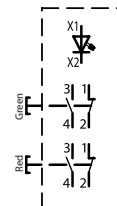
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 3 Polyester Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 1 brass earth continuity plate, 1 blanking plug, 1 cable gland.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Polyester Catalog Number
Twin Push Buttons + Push-Pull Emergency Stop					
 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts 1x red mushroom head push-pull Emergency button with 1NO + 1NC Maintained contacts		2 x M20	1.4	6.0	U23W2A5A9D3
		2 x M25	1.4	6.0	U23W4A5A9D3
Pilot Light + Twin Push Buttons					
 1x green light ① 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts		2 x M20	1.4	6.0	U23W2PGA5A9
		2 x M25	1.4	6.0	U23W4PGA5A9
		2 x M20	1.4	6.0	U23W2PRA5A9
		2 x M25	1.4	6.0	U23W4PRA5A9
 1x green light ① 1x green push button 'I' with 1NO + 1NC contact 1x red push button 'O' with 1NO + 1NC contact Momentary contacts		2 x M20	1.4	6.0	U23W2PGA3A3
		2 x M25	1.4	6.0	U23W4PGA3A3
		2 x M20	1.4	6.0	U23W2PRA3A3
		2 x M25	1.4	6.0	U23W4PRA3A3

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.
① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

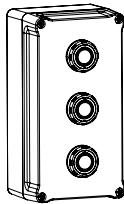
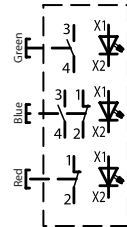
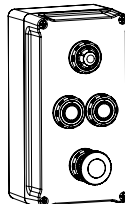
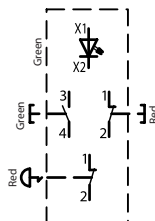
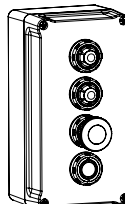
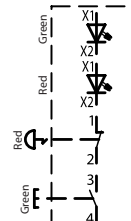
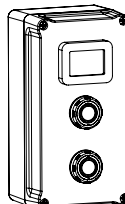
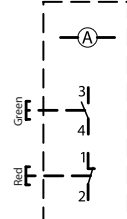
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 3 Polyester Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 1 brass earth continuity plate, 1 blanking plug, 1 cable gland.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Polyester Catalog Number	
Triple Illuminated Push Buttons						
	1x green illuminated push button with 1NO contact ①		2 x M20	1.4	6.0	U23W2LG5LB3LR9
	1x blue illuminated push button with 1NO + 1NC contact ①					
	1x red illuminated push button with NC contact ① Momentary contacts		2 x M25	1.4	6.0	U23W4LG5LB3LR9
Pilot Light + Twin Push Buttons + Push-Pull Emergency Stop						
	1x green light ①		2 x M20	1.4	6.0	U23W2PGA5A9D9
	1x green push button 'I' with 1NO contact					
	1x red push button 'O' with 1NC contact Momentary contacts		2 x M25	1.4	6.0	U23W4PGA5A9D9
Twin Pilot Lights + Push-Pull Emergency Stop + Push Button						
	1x green light ①		2 x M20	1.4	6.0	U23W2PGPRD9A5
	1x red light ①					
	1x red mushroom head push-pull with 1x NC maintained contact 1x green push button 'I' with 1NO momentary contact		2 x M25	1.4	6.0	U23W4PGPRD9A5
Ammeter + Twin Push Buttons						
	1x ammeter 48 x 48 mm, 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale		2 x M20	1.4	6.0	U23W2VA13A5A9
	1x green push button 'I' with 1NO contact					
	1x red push button 'O' with 1NC contact Momentary contacts		2 x M25	1.4	6.0	U23W4VA13A5A9

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Nameplates — Set of 10

Blank self-adhesive, laminated plastic 58 mm x 18 mm.

Color	Catalog Number
White (black letters)	UNPW
Yellow (black letters)	UNPY
Red (white letters)	UNPR
Blue (white letters)	UNPB
Black (white letters)	UNPN
Green (white letters)	UNPG

Inserts for Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UIAG
(unmarked)	Red	UIAR
(unmarked)	Yellow	UIAY
(unmarked)	White	UIAW
(unmarked)	Blue	UIAB
(unmarked)	Black	UIAN
ON	Green	UIA01
OFF	Red	UIA02
START	Green	UIA03
STOP	Red	UIA04
MARCHE	Green	UIA05
ARRET	Red	UIA06
I	Green	UIA07
O	Red	UIA08

Inserts for Illuminated Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UILG
(unmarked)	Red	UILR
(unmarked)	Yellow	UILY
(unmarked)	White	UILW
(unmarked)	Blue	UILB
ON	Green	UIL01
OFF	Red	UIL02
START	Green	UIL03
STOP	Red	UIL04
MARCHE	Green	UIL05
ARRET	Red	UIL06
I	Green	UIL07
O	Red	UIL08

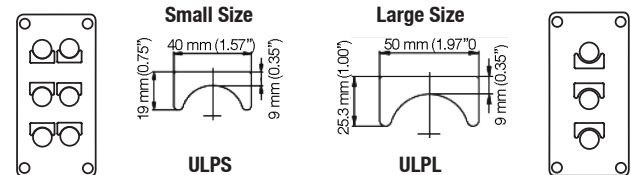
Spare Key

For all key-operated buttons.

Description	Catalog Number
Spare key type 4 A 185	SK4A185

Standard Legend Plates

Two sizes available. Self-adhesive yellow laminated plastic (black lettering).



Text	Catalog Number	
	Small	Large
Blank (set of 10)	ULPS	ULPL
ON	ULPSA01	ULPLA01
OFF	ULPSA02	ULPLA02
FORWARD	ULPSA03	ULPLA03
REVERSE	ULPSA04	ULPLA04
JOG	ULPSA05	ULPLA05
RUN	ULPSA06	ULPLA06
START	ULPSA07	ULPLA07
STOP	ULPSA08	ULPLA08
UP	ULPSA09	ULPLA09
DOWN	ULPSA10	ULPLA10
FAST	ULPSA11	ULPLA11
SLOW	ULPSA12	ULPLA12
RAISE	ULPSA13	ULPLA13
LOWER	ULPSA14	ULPLA14
OPEN	ULPSA15	ULPLA15
CLOSE	ULPSA16	ULPLA16
LOW	ULPSA17	ULPLA17
HIGH	ULPSA18	ULPLA18
TEST	ULPSA19	ULPLA19
RESET	ULPSA20	ULPLA20
EMERGENCY STOP	ULPSA21	ULPLA21
MARCHE	ULPSA22	ULPLA22
ARRET	ULPSA23	ULPLA23
ARRET D'URGENCE	ULPSA24	ULPLA24
HAUT	ULPSA25	ULPLA25
BAS	ULPSA26	ULPLA26
O—I	ULPSH01	ULPLH01
ON—OFF	ULPSH02	ULPLH02
START—STOP	ULPSH03	ULPLH03
STOP—START	ULPSH04	ULPLH04
HAND—AUTO	ULPSH05	ULPLH05
MANU—AUTO	ULPSH06	ULPLH06
FORWARD—REVERSE	ULPSH07	ULPLH07
REMOTE—LOCAL	ULPSH08	ULPLH08
MARCHE—ARRET	ULPSH09	ULPLH09
I—O—II	ULPSJ01	ULPLJ01
OFF—O—ON	ULPSJ02	ULPLJ02
START—NORMAL—STOP	ULPSJ03	ULPLJ03
HAND—OFF—AUTO	ULPSJ04	ULPLJ04
MANU—O—AUTO	ULPSJ05	ULPLJ05
FORWARD—OFF—REVERSE	ULPSJ06	ULPLJ06
LOCAL—REMOTE—AUTO	ULPSJ07	ULPLJ07
LOCAL—O—REMOTE	ULPSJ08	ULPLJ08
MARCHE—NORMAL—ARRET	ULPSJ09	ULPLJ09

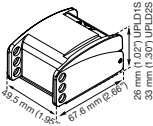
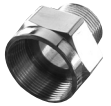
Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Description		Catalog Number
	Additional Contacts	
	Each actuator is capable of activating 3 contacts. Exception: Illuminated push button and all actuators with key: 2 contacts maximum	
	1NO contact 1NC contact	UCB5R UCB9R
	Yellow Guard	
	Mushroom head protection for emergency stop	098657
	Padlockable Guard	
	Stainless steel and plastic cover, capacity: 3 padlocks diameter 6 mm maximum (not supplied)	
	For push button and rotary actuator	UPLD1S
	For mushroom head actuator	UPLD2S
	Cable Gland Exe	
	For unarmored cable Exe - IP66 - in polyamide entry thread seal	
	M20 (capacity 6.5-14.5 mm)	095605
	For armored cable Exe/Exd - IP66 - in nickel plated brass (without entry thread seal)	
	Braid and Tape type:	
	M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)	20E1FX5
	Single Wired Armor (SWA):	
	M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)	20E1FW5
	Adaptors	
	Exd/Exe - IP66 in nickel plated brass (without entry thread seal)	
	Male M20 - Female 1/2" NPT	737DM2T15
	Male M20 - Female 3/4" NPT	737DM2T25
	Entry Thread Seal	
	M20 (in white nylon)	20ETS2
	Combination Drain and Breather	
	Exe - IP66 - supplied with entry thread seal and locknut	
	M20 male thread in Polyamide	DBE20P
	M20 male thread in Brass	DBE20B
	M20 male thread in Stainless Steel	DBE20S
	Feed-Thru Earth Stud Terminal	
	Exe - IP66 - supplied with weatherproof seal and green/yellow earth conductor — 300 mm length	
	M20 with M5 earth and 2.5 mm² conductor	PREESTM20

Shaded catalog numbers are normally stocked items. All other items are made to order.

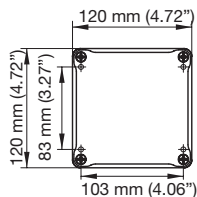
Unicode® 2 Series Polyester Control Stations and Switches

Increased Safety

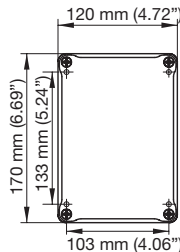
Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

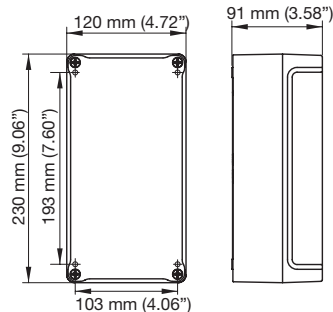
Dimensions in Millimeters



Size 1 Box



Size 2 Box



Size 3 Box

Mounting/Fixing Details for Above Boxes: Four Holes Ø 5 mm

Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.
- For use in washdown areas.

Features

- Employs Ex de method of protection which eliminates the need for external seals.
- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches and LED pilot lights.
- Pilot light employs high intensity single LED with lifetime of 100,000 hours that can be used at:
 - 12 Vac to 254 Vac 50/60 Hz
 - 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- Contact block technical data:
 - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
 - IEC switching capacity:
 - AC12: 16 Amp/400 Vac
 - AC14: 10 Amp/400 Vac
 - AC15: 6 Amp/500 Vac
 - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
- Selector switch technical data:
 - IEC rated operating voltage: 690 Vac
 - IEC rated operating current: maximum 16 Amp
 - IEC switching capacity:
 - AC1: 16 Amp/690 Vac
 - AC15: 16 Amp/415 Vac
 - AC3: 8 Amp/500 Vac
 - AC3: 4 Amp/690 Vac
 - AC3: 16 Amp/690 Vac
 - DC1: 10 Amp/24 Vdc
 - DC1: 6 Amp/60 Vdc
 - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC1: 6 Amp/220 Vdc (3 contacts in series)
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced so as to have easy and ample space for wiring.
- Wide selection of termination methods available.
- Choice of DIN rail mounted high performance contact block suitable for low intensity (less than 5mA).
- TS35 rail mounted components held securely in place during operation and easily removed for service.
- Brass Inserts are provided for TS35 DIN rails or mounting plate to be installed inside the enclosure.
- Captive, corrosion resistant stainless steel cover screws.



U62W2 PRA5A9
316 Stainless Steel

Standard Materials

- Body and cover : 316L stainless steel with natural finish
- Cover screws : 304 stainless steel

Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- M5 and M6 earth stud.
- Combination drain and breather available in brass, polyamide and stainless steel.

Options

- Nameplates: stainless steel or Lamacoid with different color combinations.
- Padlocking facility at left, center, right or any position on selector switches.
- Padlocking facility for momentary and maintained push buttons.
- Special contact arrangements available, see *Unicode 2 Series Customized Control Stations*.

Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Certification and Compliances

◆ ATEX or IECEx Certification

• Certification Type JBe (Stainless Steel)

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II2 G
 - Type of Protection: Ex de IIC or Ex demb IIC (depending of the actuator)
 - Temperature Class: T5 to T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C to T95 °C
- Ambient Temperature: -50 °C to +70 °C (empty enclosure)
-20°C or -25°C to +55°C or +60°C depending of the actuator
- CE Declaration of Conformity: 50232
- ATEX Certificate: LCIE 02 ATEX 6118X
- IECEx Certificate: LCI 11.0008X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

◆ EURASEC Certification

- EURASEC RU C-FR ГБ 05.B.00911

◆ Others Certification ①

- INMETRO Certificate: BVC 11.0418-X

① Inmetro certification available on special request only. Contact your local sales for more information.

Unicode® 2 Series Stainless steel Control Stations and Switches

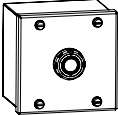
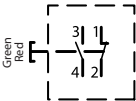
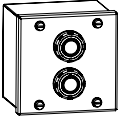
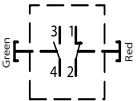
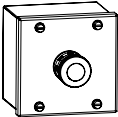
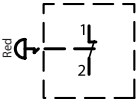
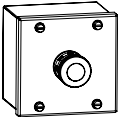
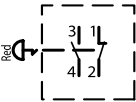
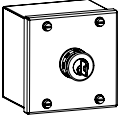
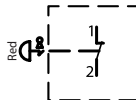
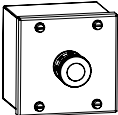
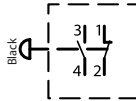
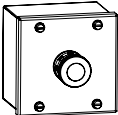
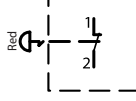
Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 1 316 L Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 2x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Catalog Number
Momentary Push Button					
 Green insert 'I' + red insert 'O' with 1NO + 1NC momentary contact		2 x M20	1.2	4.3	U61W2A3
Twin Momentary Push Buttons					
 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts		2 x M20	1.3	4.3	U61W2A5A9
Emergency Stop					
 Red mushroom head push-pull 1NC maintained contact		2 x M20	1.2	4.3	U61W2D9
 Red mushroom head push-pull 1NO + 1NC maintained contact		2 x M20	1.2	4.3	U61W2D3
Emergency Stop					
 Red mushroom head key release 1NC maintained contact		2 x M20	1.2	4.3	U61W2C9
Mushroom Head Push Button					
 Black mushroom head push button 1NO+1NC momentary contacts		2 x M20	1.2	4.3	U61W2B3
 Red mushroom head push button 1NC momentary contact		2 x M20	1.2	4.3	U61W2R9

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

Unicode® 2 Series Stainless steel Control Stations and Switches

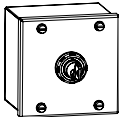
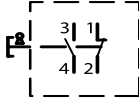
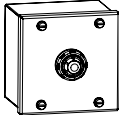
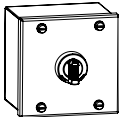
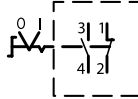
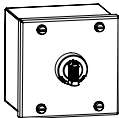
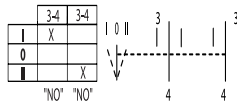
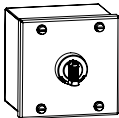
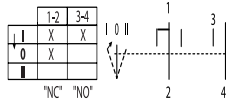
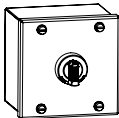
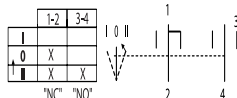
Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 1 316L Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 2x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Catalog Number
Key Push Button					
 With key removable in both positions 1NO+1NC maintained contact		2 x M20	1.0	4.0	U61W2E3
Pilot Light					
 1x red pilot light ①		2 x M20	1.2	4.3	U61W2PR
1x green pilot light ①		2 x M20	1.2	4.3	U61W2PG
1x blue pilot light ①		2 x M20	1.2	4.3	U61W2PB
1x yellow pilot light ①		2 x M20	1.2	4.3	U61W2PY
1x white pilot light ①		2 x M20	1.2	4.3	U61W2PW
2-Position Selector Switch					
 2 fixed positions '0 - I' 1NO + 1 NC contacts		2 x M20	1.2	4.3	U61W2H3
3-Position Selector Switch					
 3 fixed positions 'I - 0 - II' 2NO contacts		2 x M20	1.2	4.3	U61W2J1
 3 fixed positions 'I - 0 - II' With spring return from I to 0 1NO + 1NC contacts		2 x M20	1.2	4.3	U61W2N3
 3 positions 'I - 0 - II' With spring return from II to 0 1NO + 1NC contacts		2 x M20	1.2	4.3	U61W2M3

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.
① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc

Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

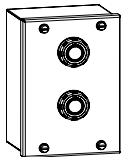
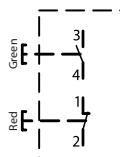
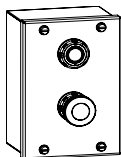
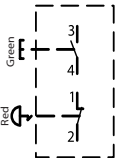
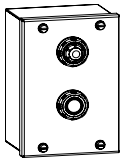
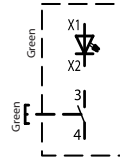
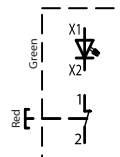
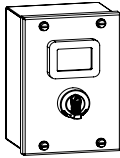
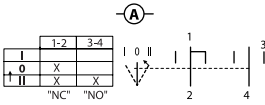
316L Stainless Steel

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 2 316L Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 2x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Catalog Number
Twin Push Button					
 1 x green push button 'I' with 1NO contact 1 x red push button 'O' with 1NC contact Momentary contacts		2 x M20	1.8	4.3	U62W2A5A9
Push Button + Push-Pull Emergency Stop					
 1 x green push button 'I' with 1NO momentary contact 1 x red mushroom head push-pull emergency button with 1NC maintained contact		2 x M20	1.8	4.3	U62W2A5D9
Pilot Light + Push Button					
 1 x green light ① 1 x green push button 'I' with 1NO momentary contact		2 x M20	1.8	4.3	U62W2PGA5
 1 x red light ① 1 x red push button 'O' with 1NC momentary contact		2 x M20	1.8	4.3	U62W2PRA9
Ammeter + 3-Position Selector Switch					
 1 x ammeter 48 x 48 mm, 1A C.T., 3 F.L.C., with 0-1-3 scale 1 x 3-position selector switch 'I - O - II' With spring return from II to 0 1NO + 1NC contacts		2 x M20	1.8	4.3	U62W2VA13M3

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc

Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

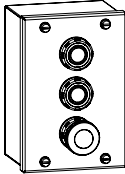
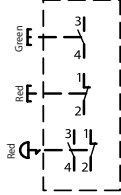
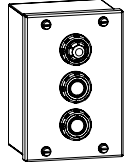
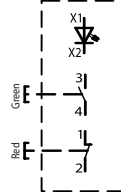
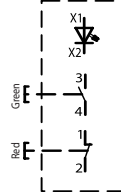
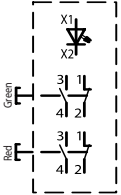
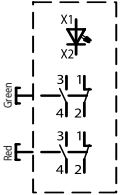
316L Stainless Steel

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 2 316L Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 2x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Catalog Number
Twin Push Buttons + Push-Pull Emergency Stop					
 1 x green push button 'I' with 1NO contact 1 x red push button 'O' with 1NC contact Momentary contacts 1 x red mushroom head push-pull emergency button with 1NO + 1NC contacts		2 x M20	1.8	4.3	U62W2A5A9D3
Pilot Light + Twin Push Buttons					
 1x green pilot light ① 1 x green push button 'I' with 1NO contact 1 x red push button 'O' with 1NC contact Momentary contacts		2 x M20	1.8	4.3	U62W2PGA5A9
1 x red pilot light ① 1 x green push button 'I' with 1NO contact 1 x red push button 'O' with 1NC contact Momentary contact		2 x M20	1.8	4.3	U62W2PRA5A9
1 x green pilot light ① 1 x green push button 'I' with 1NO + 1NC contacts 1 x red push button 'O' with 1NO + 1NC contacts Momentary contacts		2 x M20	1.8	4.3	U62W2PGA3A3
1x red pilot light ① 1 x green push button 'I' with 1NO + 1NC contacts 1 x red push button 'O' with 1NO + 1NC contacts Momentary contacts		2 x M20	1.8	4.3	U62W2PRA3A3

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.
① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Stainless steel Control Stations and Switches

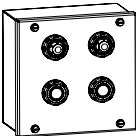
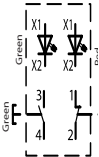
Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 3 316L Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 2x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Catalog Number
Twin Pilot Lights + Twin Push Buttons					
 1 x green pilot light ① 1 x red pilot light ① 1 x green push button 'I' with 1NO contact 1 x red push button 'O' with 1NC contact Momentary contacts		2 x M20	2.1	10.5	U63W2PGPRA5A9
		2 x M25	2.1	10.5	U63W4PGPRA5A9

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section
① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Nameplates — Set of 10

Blank self-adhesive, laminated plastic 58 mm x 18 mm.

Color	Catalog Number
White (black letters)	UNPW
Yellow (black letters)	UNPY
Red (white letters)	UNPR
Blue (white letters)	UNPB
Black (white letters)	UNPN
Green (white letters)	UNPG

Inserts for Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UIAG
(unmarked)	Red	UIAR
(unmarked)	Yellow	UIAY
(unmarked)	White	UIAW
(unmarked)	Blue	UIAB
(unmarked)	Black	UIAN
ON	Green	UIA01
OFF	Red	UIA02
START	Green	UIA03
STOP	Red	UIA04
MARCHE	Green	UIA05
ARRET	Red	UIA06
I	Green	UIA07
O	Red	UIA08

Inserts for Illuminated Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UILG
(unmarked)	Red	UILR
(unmarked)	Yellow	UILY
(unmarked)	White	UILW
(unmarked)	Blue	UILB
ON	Green	UIL01
OFF	Red	UIL02
START	Green	UIL03
STOP	Red	UIL04
MARCHE	Green	UIL05
ARRET	Red	UIL06
I	Green	UIL07
O	Red	UIL08

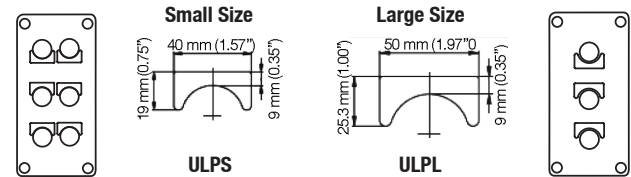
Spare Key

For all key-operated buttons.

Description	Catalog Number
Spare key type 4 A 185	SK4A185

Standard Legend Plates

Two sizes available. Self-adhesive yellow laminated plastic (black lettering).



Text	Catalog Number	
	Small	Large
Blank (set of 10)	ULPS	ULPL
ON	ULPSA01	ULPLA01
OFF	ULPSA02	ULPLA02
FORWARD	ULPSA03	ULPLA03
REVERSE	ULPSA04	ULPLA04
JOG	ULPSA05	ULPLA05
RUN	ULPSA06	ULPLA06
START	ULPSA07	ULPLA07
STOP	ULPSA08	ULPLA08
UP	ULPSA09	ULPLA09
DOWN	ULPSA10	ULPLA10
FAST	ULPSA11	ULPLA11
SLOW	ULPSA12	ULPLA12
RAISE	ULPSA13	ULPLA13
LOWER	ULPSA14	ULPLA14
OPEN	ULPSA15	ULPLA15
CLOSE	ULPSA16	ULPLA16
LOW	ULPSA17	ULPLA17
HIGH	ULPSA18	ULPLA18
TEST	ULPSA19	ULPLA19
RESET	ULPSA20	ULPLA20
EMERGENCY STOP	ULPSA21	ULPLA21
MARCHE	ULPSA22	ULPLA22
ARRET	ULPSA23	ULPLA23
ARRET D'URGENCE	ULPSA24	ULPLA24
HAUT	ULPSA25	ULPLA25
BAS	ULPSA26	ULPLA26
O—I	ULPSH01	ULPLH01
ON—OFF	ULPSH02	ULPLH02
START—STOP	ULPSH03	ULPLH03
STOP—START	ULPSH04	ULPLH04
HAND—AUTO	ULPSH05	ULPLH05
MANU—AUTO	ULPSH06	ULPLH06
FORWARD—REVERSE	ULPSH07	ULPLH07
REMOTE—LOCAL	ULPSH08	ULPLH08
MARCHE—ARRET	ULPSH09	ULPLH09
I—O—II	ULPSJ01	ULPLJ01
OFF—O—ON	ULPSJ02	ULPLJ02
START—NORMAL—STOP	ULPSJ03	ULPLJ03
HAND—OFF—AUTO	ULPSJ04	ULPLJ04
MANU—O—AUTO	ULPSJ05	ULPLJ05
FORWARD—OFF—REVERSE	ULPSJ06	ULPLJ06
LOCAL—REMOTE—AUTO	ULPSJ07	ULPLJ07
LOCAL—O—REMOTE	ULPSJ08	ULPLJ08
MARCHE—NORMAL—ARRET	ULPSJ09	ULPLJ09

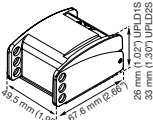
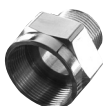
Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

	Description	Catalog Number
	Additional Contacts Each actuator is capable of activating 3 contacts. Exception: Illuminated push button and all actuators with key: 2 contacts maximum	
	1NO contact	UCB5R
	1NC contact	UCB9R
	Yellow Guard Mushroom head protection for emergency stop	098657
	Padlockable Guard Stainless steel and plastic cover, capacity: 3 padlocks diameter 6 mm maximum (not supplied)	
	For push button and rotary actuator	UPLD1S
	For mushroom head actuator	UPLD2S
	Cable Gland Exe For unarmored cable Exe - IP66 - in polyamide entry thread seal	
	M20 (capacity 6.5-14.5 mm)	095605
	For armored cable Exe/Exd - IP66 - in nickel plated brass (without entry thread seal)	
	Braid and Tape type:	
	M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)	20E1FX5
	Single Wired Armor (SWA): M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)	20E1FW5
	Adaptors Exd/Exe - IP66 in nickel plated brass (without entry thread seal)	
	Male M20 - Female 1/2" NPT	737DM2T15
	Male M20 - Female 3/4" NPT	737DM2T25
	Entry Thread Seal M20 (in white nylon)	20ETS2
	Combination Drain and Breather Exe - IP66 - supplied with entry thread seal and locknut	
	M20 male thread in Polyamide	DBE20P
	M20 male thread in Brass	DBE20B
	M20 male thread in Stainless Steel	DBE20S
	Feed-Thru Earth Stud Terminal Exe - IP66 – supplied with weatherproof seal and green/yellow earth conductor — 300 mm length	
	M20 with M5 earth and 2.5 mm² conductor	PREESTM20

Shaded catalog numbers are normally stocked items. All other items are made to order.

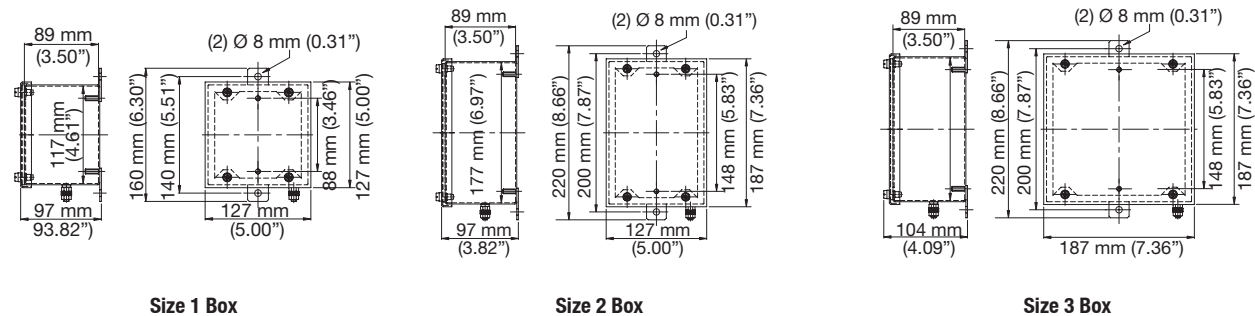
Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Dimensions in Millimeters



Unicode® 2 Series Aluminium Control Stations and Switches

Increased Safety

Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.
- For use in washdown areas.

Features

- Employs Ex de method of protection which eliminates the need for external seals.
- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches and LED pilot lights.
- Pilot light employs high intensity single LED with lifetime of 100,000 hours that can be used at:
 - 12 Vac to 254 Vac 50/60 Hz
 - 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- Contact block technical data:
 - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
 - IEC switching capacity:
 - AC12: 16 Amp/400 Vac
 - AC14: 10 Amp/400 Vac
 - AC15: 6 Amp/500 Vac
 - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
- Selector switch technical data:
 - IEC rated operating voltage: 690 Vac
 - IEC rated operating current: maximum 16 Amp
 - IEC switching capacity:
 - AC1: 16 Amp/690 Vac
 - AC15: 16 Amp/415 Vac
 - AC3: 8 Amp/500 Vac
 - AC3: 4 Amp/690 Vac
 - AC3: 16 Amp/690 Vac
 - DC1: 10 Amp/24 Vdc
 - DC1: 6 Amp/60 Vdc
 - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC1: 6 Amp/220 Vdc (3 contacts in series)
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced so as to have easy and ample space for wiring.
- Wide selection of termination methods available.
- Choice of DIN rail mounted high performance contact block suitable for low intensity (less than 5mA).
- TS35 rail mounted components held securely in place during operation and easily removed for service.
- Brass Inserts are provided for TS35 DIN rails or mounting plate to be installed inside the enclosure.
- Captive, corrosion resistant stainless steel cover screws.



U83W2 PRA5A9
Aluminum

Standard Materials

- Body and cover: aluminum with gray epoxy powder coating RAL7038
- Cover screws for 316L stainless steel or aluminum body: 304 stainless steel
- Cover screws for fiberglass reinforced polyester body: 316 stainless steel

Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- M5 and M6 earth stud.
- Combination drain and breather available in brass, polyamide and stainless steel.

Options

- Nameplates: stainless steel or Lamacoid with different color combinations.
- Padlocking facility at left, center, right or any position on selector switches.
- Padlocking facility for momentary and maintained push buttons.
- Special contact arrangements available, see *Unicode 2 Series Customized Control Stations*.

Unicode® 2 Series Aluminium Control Stations and Switches

Increased Safety

Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Certification and Compliances

◆ATEX Certification

• Certification Type PCe (Aluminum)

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓜ II2 G
 - Type of Protection: Ex de IIC or Ex demb IIC (depending of the actuator)
 - Temperature class: T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓜ II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C
 - Ambient Temperature: -55 °C to +60 °C (empty enclosure)
-20°C or -25°C to +55°C or +60°C depending of the actuator
 - CE Declaration of Conformity: 50221
 - ATEX Certificate: LCIE 02 ATEX 6047
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10

◆EURASEC Certification

• Certification Type PCe (Aluminum)

- EURASEC RU C-FR Г5 05.B.00911

Unicode® 2 Series Aluminium Control Stations and Switches

Increased Safety

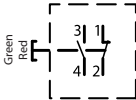
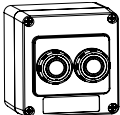
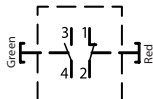
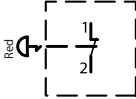
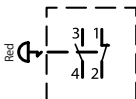
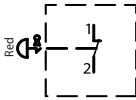
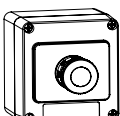
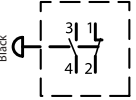
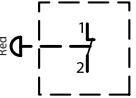
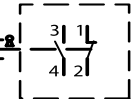
Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 1 Aluminum Control Station

Standard equipment: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Catalog Number
Impulse Push Button					
 Green insert 'I' + red insert 'O' with 1NO + 1NC momentary contact		2 x M20	1	2.7	U81W2A3
Twin Impulse Push Buttons					
 1x green push button 'I' with 1NO momentary contact 1 x red push button 'O' with 1NC contact momentary contact		2 x M20	1.1	2.7	U81W2A5A9
Emergency Stop					
 Red mushroom head push-pull 1NC maintained contact		2 x M20	1	2.7	U81W2D9
 Red mushroom head push-pull 1NO + 1NC maintained contacts		2 x M20	1	2.7	U81W2D3
 Red mushroom head key release 1NC maintained contact		2 x M20	1	2.7	U81W2C9
Mushroom Head Push Button					
 Black mushroom head push button 1NO + 1NC momentary contacts		2 x M20	1	2.7	U81W2B3
 Red mushroom head push button 1NC momentary contacts		2 x M20	1	2.7	U81W2R9
Key Push Button					
 With key removable in both positions 1NO + 1NC momentary contacts		2 x M20	1	2.7	U81W2E3

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

Unicode® 2 Series Aluminium Control Stations and Switches

Increased Safety

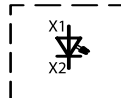
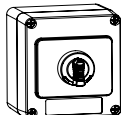
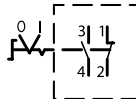
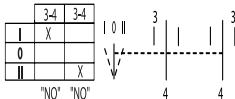
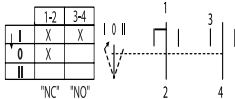
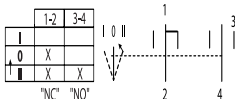
Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 1 Aluminum Control Station

Standard equipment: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function		Diagram	Bottom Entry	Weight kg	Volume dm³	Catalog Number
Pilot Light						
	1 x red pilot light ①		2 x M20	1	2.7	U81W2PR
	1 x green pilot light ①		2 x M20	1	2.7	U81W2PG
	1 x blue pilot light ①		2 x M20	1	2.7	U81W2PB
	1 x yellow pilot light ①		2 x M20	1	2.7	U81W2PY
	1 x white pilot light ①		2 x M20	1	2.7	U81W2PW
2-Position Selector Switch						
	2 fixed positions '0 - I' 1NO + 1NC contacts		2 x M20	1	2.7	U81W2H3
3-Position Selector Switch						
	3 fixed positions 'I - 0 - II' 2NO contacts		2 x M20	1	2.7	U81W2J1
	3 positions 'I - 0 - II' with spring return from I to 0 1NO + 1NC contacts		2 x M20	1	2.7	U81W2N3
	3 positions 'I - 0 - II' with spring return from II to 0 1NO + 1NC contacts		2 x M20	1	2.7	U81W2M3

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.
① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc

Unicode® 2 Series Aluminium Control Stations and Switches

Increased Safety

Aluminum

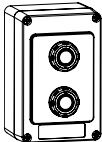
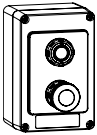
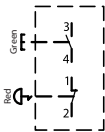
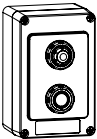
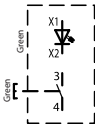
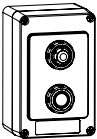
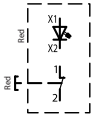
Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 2 Aluminum Control Station

Standard equipment: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm³	Catalog Number
Twin Push Buttons					
 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts		2 x M20	1.3	2.7	U82W2A5A9
Push Button + Push-Pull Emergency Stop					
 1x green push button 'I' with 1NO momentary contact 1x red mushroom head push-pull emergency button with 1NC maintained contact		2 x M20	1.3	2.7	U82W2A5D9
Pilot Light + Push Button					
 1x green pilot light ① 1x green push button 'I' with 1NO Momentary contact		2 x M20	1.3	2.7	U82W2GA5
 1x red pilot light ① 1x red push button 'O' with 1NC Momentary contact		2 x M20	1.3	2.7	U82W2PRA9

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc

Unicode® 2 Series Aluminium Control Stations and Switches

Increased Safety

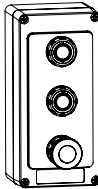
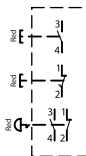
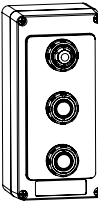
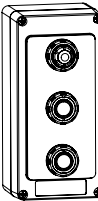
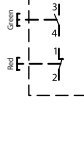
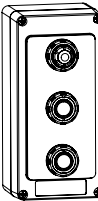
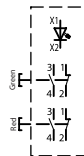
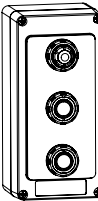
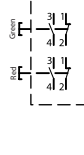
Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 3 Aluminum Control Station

Standard equipment: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function	Diagram	Bottom Entry	Weight kg	Volume dm ³	Catalog Number
Twin Push Buttons + Push-Pull Emergency Stop					
		2 x M20	1.6	4.2	U83W2A5A9D3
		2 x M25	1.6	4.2	U83W4A5A9D3
Pilot Light + Twin Push Buttons					
		2 x M20	1.6	4.2	U83W2PGA5A9
		2 x M25	1.6	4.2	U83W4PGA5A9
		2 x M20	1.6	4.2	U83W2PRA5A9
		2 x M25	1.6	4.2	U83W4PRA5A9
		2 x M20	1.6	4.2	U83W2PGA3A3
		2 x M25	1.6	4.2	U83W4PGA3A3
		2 x M20	1.6	4.2	U83W2PRA3A3
		2 x M25	1.6	4.2	U83W4PRA3A3

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.
① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Aluminium Control Stations and Switches

Increased Safety

Aluminum

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Nameplates — Set of 10

Blank self-adhesive, laminated plastic 58 mm x 18 mm.

Color	Catalog Number
White (black letters)	UNPW
Yellow (black letters)	UNPY
Red (white letters)	UNPR
Blue (white letters)	UNPB
Black (white letters)	UNPN
Green (white letters)	UNPG

Inserts for Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UIAG
(unmarked)	Red	UIAR
(unmarked)	Yellow	UIAY
(unmarked)	White	UIAW
(unmarked)	Blue	UIAB
(unmarked)	Black	UIAN
ON	Green	UIA01
OFF	Red	UIA02
START	Green	UIA03
STOP	Red	UIA04
MARCHE	Green	UIA05
ARRET	Red	UIA06
I	Green	UIA07
O	Red	UIA08

Inserts for Illuminated Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UILG
(unmarked)	Red	UILR
(unmarked)	Yellow	UILY
(unmarked)	White	UILW
(unmarked)	Blue	UILB
ON	Green	UIL01
OFF	Red	UIL02
START	Green	UIL03
STOP	Red	UIL04
MARCHE	Green	UIL05
ARRET	Red	UIL06
I	Green	UIL07
O	Red	UIL08

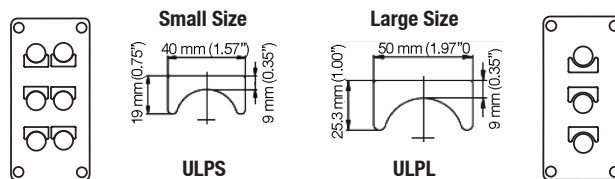
Spare Key

For all key-operated buttons.

Description	Catalog Number
Spare key type 4 A 185	SK4A185

Standard Legend Plates

Two sizes available. Self-adhesive yellow laminated plastic (black lettering).



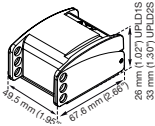
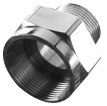
Text	Catalog Number	
	Small	Large
Blank (set of 10)	ULPS	ULPL
ON	ULPSA01	ULPLA01
OFF	ULPSA02	ULPLA02
FORWARD	ULPSA03	ULPLA03
REVERSE	ULPSA04	ULPLA04
JOG	ULPSA05	ULPLA05
RUN	ULPSA06	ULPLA06
START	ULPSA07	ULPLA07
STOP	ULPSA08	ULPLA08
UP	ULPSA09	ULPLA09
DOWN	ULPSA10	ULPLA10
FAST	ULPSA11	ULPLA11
SLOW	ULPSA12	ULPLA12
RAISE	ULPSA13	ULPLA13
LOWER	ULPSA14	ULPLA14
OPEN	ULPSA15	ULPLA15
CLOSE	ULPSA16	ULPLA16
LOW	ULPSA17	ULPLA17
HIGH	ULPSA18	ULPLA18
TEST	ULPSA19	ULPLA19
RESET	ULPSA20	ULPLA20
EMERGENCY STOP	ULPSA21	ULPLA21
MARCHE	ULPSA22	ULPLA22
ARRET	ULPSA23	ULPLA23
ARRET D'URGENCE	ULPSA24	ULPLA24
HAUT	ULPSA25	ULPLA25
BAS	ULPSA26	ULPLA26
O—I	ULPSH01	ULPLH01
ON—OFF	ULPSH02	ULPLH02
START—STOP	ULPSH03	ULPLH03
STOP—START	ULPSH04	ULPLH04
HAND—AUTO	ULPSH05	ULPLH05
MANU—AUTO	ULPSH06	ULPLH06
FORWARD—REVERSE	ULPSH07	ULPLH07
REMOTE—LOCAL	ULPSH08	ULPLH08
MARCHE—ARRET	ULPSH09	ULPLH09
I—O—II	ULPSJ01	ULPLJ01
OFF—O—ON	ULPSJ02	ULPLJ02
START—NORMAL—STOP	ULPSJ03	ULPLJ03
HAND—OFF—AUTO	ULPSJ04	ULPLJ04
MANU—O—AUTO	ULPSJ05	ULPLJ05
FORWARD—OFF—REVERSE	ULPSJ06	ULPLJ06
LOCAL—REMOTE—AUTO	ULPSJ07	ULPLJ07
LOCAL—O—REMOTE	ULPSJ08	ULPLJ08
MARCHE—NORMAL—ARRET	ULPSJ09	ULPLJ09

Unicode® 2 Series Aluminium Control Stations and Switches

Increased Safety

Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

	Description	Catalog Number
	Additional Contacts <i>Each actuator is capable of activating 3 contacts. Exception: Illuminated push button and all actuators with key: 2 contacts maximum</i>	
	1NO contact	UCB5R
	1NC contact	UCB9R
	Yellow Guard Mushroom head protection for emergency stop	098657
	Padlockable Guard <i>Stainless steel and plastic cover, capacity: 3 padlocks diameter 6 mm maximum (not supplied)</i>	
	For push button and rotary actuator	UPLD1S
	For mushroom head actuator	UPLD2S
	Cable Gland Exe <i>For unarmored cable Exe - IP66 - in polyamide entry thread seal</i>	
	M20 (capacity 6.5-14.5 mm)	095605
	<i>For armored cable Exe/Exd - IP66 - in nickel plated brass (without entry thread seal)</i>	
	Braid and Tape type:	
	M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)	20E1FX5
	Single Wired Armor (SWA): M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)	20E1FW5
	Adaptors <i>Exd/Exe - IP66 in nickel plated brass (without entry thread seal)</i>	
	Male M20 - Female 1/2" NPT	737DM2T15
	Male M20 - Female 3/4" NPT	737DM2T25
	Entry Thread Seal M20 (in white nylon)	20ETS2
	Combination Drain and Breather <i>Exe - IP66 - supplied with entry thread seal and locknut</i>	
	M20 male thread in Polyamide	DBE20P
	M20 male thread in Brass	DBE20B
	M20 male thread in Stainless Steel	DBE20S

Shaded catalog numbers are normally stocked items. All other items are made to order.

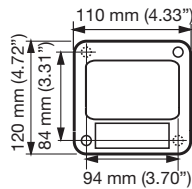
Unicode® 2 Series Aluminium Control Stations and Switches

Increased Safety

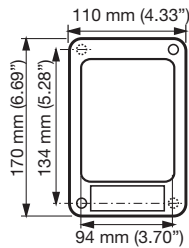
Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

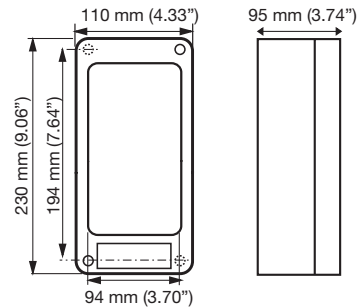
Dimensions in Millimeters



Size 1 Box



Size 2 Box



Size 3 Box

Mounting/Fixing Details for above Boxes: Two Holes Ø 5 mm

Unicode® 2 Series Customized Control Stations

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.
- For use in washdown areas.

Features

- Employs Ex de method of protection which eliminates the need for external seals.
- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches and LED pilot lights.
- Pilot light employs high intensity single LED with lifetime of 100,000 hours that can be used at:
 - 12 Vac to 254 Vac 50/60 Hz
 - 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- Contact block technical data:
 - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
 - IEC switching capacity:
 - AC 12: 16 Amps/400 Vac
 - AC 14: 10 Amps/400 Vac
 - AC 15: 6 Amps/500 Vac
 - DC 13: 2 Amps/24 Vdc and 1 Amp/110 Vdc
- Selector switch technical data:
 - IEC rated operating voltage: 690 Vac
 - IEC rated operating current: maximum 16 Amps
 - IEC switching capacity:
 - AC1: 16 Amps/690 Vac
 - AC15: 16 Amps/415 Vac
 - AC3: 8 Amps/500 Vac
 - AC3: 4 Amps/690 Vac
 - AC3: 16 Amps/690 Vac
 - DC1: 10 Amps/24 Vdc
 - DC1: 6 Amps/60 Vdc
 - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC1: 6 Amp/220 Vdc (3 contacts in series)
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced so as to have easy and ample space for wiring.
- Wide selection of termination methods available.
- Choice of DIN rail mounted high performance contact block suitable for low intensity (less than 5mA).
- TS35 rail mounted components held securely in place during operation and easily removed for service.
- Brass Inserts are provided for TS35 DIN rails or mounting plate to be installed inside the enclosure.
- Captive, corrosion resistant stainless steel cover screws.



Polyester



Polyamide



Stainless Steel



Aluminum

Standard Materials

- Polyamide
 - Body, cover, cable gland and blanking plug: polyamide, black finish
- Fiberglass Reinforced Polyester (FRP)
 - Body and cover: fiberglass reinforced polyester, black finish
- Stainless Steel
 - Body, cover and cover screws: 316L stainless steel, natural finish
- Aluminum
 - Body and cover: aluminum with gray epoxy powder coating.
- Cable gland and blanking plug: polyamide
- Cover screws for 316L stainless steel or aluminum body: 304 stainless steel
- Cover screws for fiberglass reinforced polyester body: 316 stainless steel
- Optional nameplates: stainless steel

Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- M5 and M6 earth stud.
- Combination drain and breather available in brass, polyamide and stainless steel.

Options

- Nameplates: Lamacoid with different color combinations.
- Padlocking facility at left, center, right or any position on selector switches.
- Padlocking facility for momentary and maintained push buttons.

Unicode® 2 Series Customized Control Stations

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Certifications and Compliances

◆ ATEX or IECEx Certification

• Certification Type PCe (Polyamide)

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex de IIC/Ex demb IIC
 - Temperature class: T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T167 °C to T75 °C
- Ambient Temperature: -20 °C to +55 °C
- CE Declaration of Conformity: 50221
- ATEX Certificate: LCIE 00 ATEX 6047
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK09

• Certification Type CSPe (Fiberglass Reinforced Polyester)

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex de IIC/Ex demb IIC
 - Temperature class: T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T75 °C
- Ambient Temperature: -55 °C to +60 °C (empty enclosure, temperature to be determine according actuator)
- CE Declaration of Conformity: 52084
- ATEX Certificate: LCIE 00 ATEX 3032X
- IECEx Certificate: IECEx LCI 09.0016X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

• Certification Type JBe (Stainless Steel)

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex de IIC/Ex demb IIC
 - Temperature class: T5 to T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C to T95 °C
- Ambient Temperature: -50 °C to +70 °C (empty enclosure, temperature to be determine according actuator)
- CE Declaration of Conformity: 50232
- ATEX Certificate: LCIE 02 ATEX 6118X
- IECEx Certificate: LCI 11.0008X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

• Certification Type PCe (Aluminum)

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex de IIC/Ex demb IIC
 - Temperature class: T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T75 °C
- Ambient Temperature: -55 °C to +60 °C (empty enclosure, temperature to be determine according actuator)
- CE Declaration of Conformity: 50221
- ATEX Certificate: LCIE 02 ATEX 6047
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

◆ EURASEC Certification

• Certification Type PCe (Polyamide)

- EURASEC RU C-FR 15.05.B.00911

• Certification Type CSPe (Fiberglass Reinforced Polyester)

- EURASEC RU C-FR 15.05.B.00911

• Certification Type JBe (Stainless Steel)

- EURASEC RU C-FR 15.05.B.00911

◆ Others Certification ①

• Certification Type PCe (Polyamide)

- INMETRO Certificate: BVC 11.0640-X

• Certification Type CSPe (Fiberglass Reinforced Polyester)

- INMETRO Certificate: BVC 11.0637-X

• Certification Type JBe (Stainless Steel)

- INMETRO Certificate: BVC 11.0418-X

① Inmetro certification available on special request only. Contact your local sales for more information.

Unicode® 2 Series Customized Control Stations

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Catalog Numbering Guide - Unicode 2 Enclosures

U	2	3	W2	11	A1SA00G1SA00	M6
Series: U - Unicode 2 Series Enclosures ATEX or ATEX/IECEX Certified		Size: 1 - Size 1 2 - Size 2 3 - Size 3		Cover Layout: Size 1, 2 and 3 available <i>See following page</i>		Options: M6 - M6 earth stud M8 - M8 earth stud M1 - M10 earth stud P5 - M5 earth stud for polyamide or polyester, M25 entry required P6 - M6 earth stud for polyamide or polyester, M20 entry required EP - Brass earth continuity plate (2 x M20 for polyamide box)
	Material Type and Mounting: 2 - Polyester / rail mounted 4 - Polyamide / rail mounted 6 - Stainless steel / rail mounted 8 - Aluminum / rail mounted		Entry Configuration: Bottom, Top and Feed Thru available <i>See below</i>		Devices: <i>1 to 6 devices per unit</i> Actuator, Pilot Light, Contact Blocks and Accessories <i>See following pages</i>	

Entry Configuration

	NPT					Metric			
	1/2"	2 x 1/2"	3/4"	2 x 3/4"	1"	M20	2 x M20 ②	M25	2 x M25
Bottom	Z1	Z2	Z3	Z4	Z5	W1	W2	W3	W4
Top	Y1	Y2	Y3	Y4	Y5	V1	V2	V3	V4
Feed Thru	X1	X2	X3	X4	X5	U1	U2	U3	U4

② Polyamide versions: Only 2 x M20 available at bottom.

Unicode® 2 Series Customized Control Stations

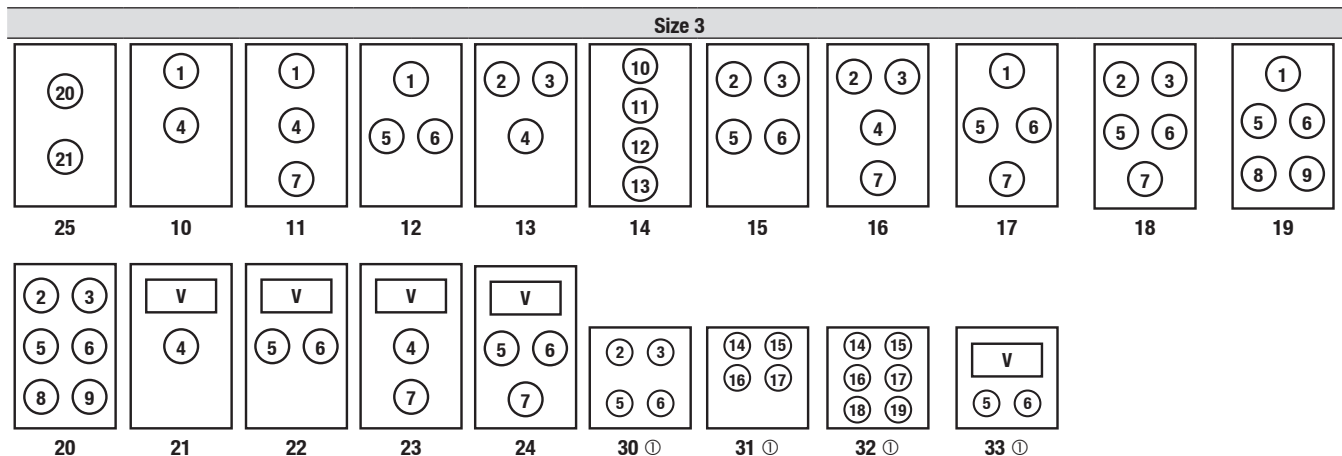
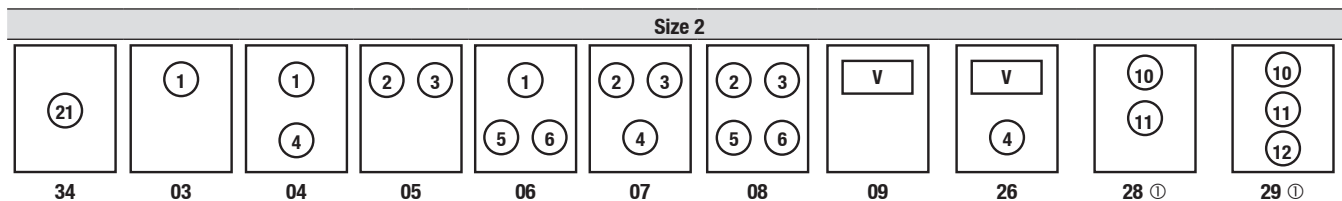
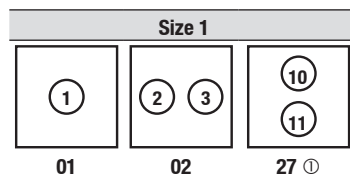
Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Drilled Cover Layout



Device Examples with Options

Description	
Push button with 1 NO contact and green (unmarked) insert	A5G
Push button with 1 NC contact, padlocking device and red (unmarked) insert	A92R
Push button with 2 NO contacts and START green insert	A103
Push button with 2 NO contacts, padlocking device and START green insert	A1203
Push button with 2 NO contacts, padlocking device, START green insert and DOWN small legend plate	A1203SA10
Red push-pull emergency stop mushroom head with 2 NC contacts and padlocking device	D23
Red push-pull emergency stop mushroom head with 1 NO + 1 NC contacts and protective guard	D31
Red push-pull emergency stop mushroom head with 1 NO + 1 NC contacts and padlocking device	D33
Green illuminated push button with 1 NO contact	LG5
Green illuminated push button with 2 NO contacts, padlocking device and START green insert	LG1203

Description	
Green pilot light	PG
Red pilot light with STOP large legend plate	PRLA08
2-position rotary actuator with 2 NO contacts and padlocking device	H12
2-position rotary actuator with 2 NO contacts and HAND—AUTO small legend plate	H1SH05
3-position I—O—II rotary actuator (I + II maintained) with 2 NO contacts	J1
3-position I—O—II rotary actuator (I + II maintained) with 2 NO contacts and FORWARD—OFF—REVERSE large legend plate	J1LJ06
2-position 2-pole switch	S32
2-position 2-pole switch with 0—I large legend plate	S32 LH01
2-position 4-pole switch	S35
2-position 4-pole switch with 0—I large legend plate	S35LH01
2 position 2-pole selector switch with STOP—START large legend plate	S30LH04
3 position 2-pole selector switch with OFF—0—ON large legend plate	S31LJ02

① Stainless steel version only.

Unicode® 2 Series Customized Control Station

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Devices		
Push Buttons, Momentary Contacts (3 maximum)		
With 2 NO momentary contacts	A1	
With 2 NC momentary contacts	A2	
With 1 NO + 1 NC momentary contacts	A3	
With 2 NO + 1 NC momentary contacts	A4	
With 1 NO momentary contact	A5	
With 1 NO + 2 NC momentary contacts	A6	
With 3 NO momentary contacts	A7	
With 3 NC momentary contacts	A8	
With 1 NC momentary contact	A9	
Guard and Padlocking Devices		
Guard for mushroom head push button	1	
Padlocking device for push button and rotary actuator	2	
Padlocking device for mushroom head push button	3	
Inserts for Push Buttons and Illuminated Push Buttons		
Green (unmarked)	G	
Red (unmarked)	R	
Yellow (unmarked)	Y	
White (unmarked)	W	
Blue (unmarked)	B	
Black (unmarked)	N	
ON (green)	01	
OFF (red)	02	
START (green)	03	
STOP (red)	04	
MARCHE (green)	05	
ARRET (red)	06	
I (green)	07	
O (red)	08	
Legend Plates		
Legend Plates for Push Buttons and Pilot Lights		
<i>(Located Above Device)</i>		
Text	Small	Large
Blank	SA00	LA00
ON	SA01	LA01
OFF	SA02	LA02
FORWARD	SA03	LA03
REVERSE	SA04	LA04
JOG	SA05	LA05
RUN	SA06	LA06
START	SA07	LA07
STOP	SA08	LA08
UP	SA09	LA09
DOWN	SA10	LA10
FAST	SA11	LA11
SLOW	SA12	LA12
RAISE	SA13	LA13
LOWER	SA14	LA14
OPEN	SA15	LA15
CLOSE	SA16	LA16
LOW	SA17	LA17
HIGH	SA18	LA18
TEST	SA19	LA19
RESET	SA20	LA20

Legend Plates (Continued)		
Legend Plates for Push Buttons and Pilot Lights		
<i>(Located Above Device)</i>		
EMERGENCY STOP	SA21	LA21
MARCHE	SA22	LA22
ARRET	SA23	LA23
ARRET D'URGENCE	SA24	LA24
HAUT	SA25	LA25
BAS	SA26	LA26
Devices		
Illuminated Push Buttons, Momentary Contacts (2 maximum)		
Green with 2 NO momentary contacts	LG1	
Green with 2 NC momentary contacts	LG2	
Green with 1 NO + 1 NC momentary contacts	LG3	
Green with 1 NO momentary contacts	LG5	
Green with 1 NC momentary contacts	LG9	
Red with 2 NO momentary contacts	LR1	
Red with 2 NC momentary contacts	LR2	
Red with 1 NO + 1 NC momentary contacts	LR3	
Red with 1 NO momentary contacts	LR5	
Red with 1 NC momentary contacts	LR9	
<i>For other colors replace 2nd letter to B for Blue, W for White and Y for Yellow. Example: Blue — LB1</i>		
Device Options		
Push buttons complete with key removable in both positions (2 contacts maximum)		
With 2 NO contacts	E1	
With 2 NC contacts	E2	
With 1 NO + 1 NC contacts	E3	
With 1 NO contact	E5	
With 1 NC contact	E9	
Push buttons complete with key removable in ON position (2 contacts maximum)		
With 2 NO contacts	F1	
With 2 NC contacts	F2	
With 1 NO + 1 NC contacts	F3	
With 1 NO contact	F5	
With 1 NC contact	F9	
Push buttons complete with key removable in OFF position (2 contacts maximum)		
With 2 NO contacts	G1	
With 2 NC contacts	G2	
With 1 NO + 1 NC contacts	G3	
With 1 NO contact	G5	
With 1 NC contact	G9	

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Customized Control Station

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Device Options	
Black Mushroom Head Push Buttons, Momentary Contacts (3 maximum)	
With 2 NO momentary contacts	B1
With 2 NC momentary contacts	B2
With 1 NO + 1 NC momentary contacts	B3
With 2 NO + 1 NC momentary contacts	B4
With 1 NO momentary contact	B5
With 1 NO + 2 NC momentary contacts	B6
With 3 NO momentary contacts	B7
With 3 NC momentary contacts	B8
With 1 NC momentary contact	B9

Devices	
Red Mushroom Head Push Buttons, Momentary Contacts (3 maximum)	
With 2 NO momentary contacts	R1
With 2 NC momentary contacts	R2
With 1 NO + 1 NC momentary contacts	R3
With 2 NO + 1 NC momentary contacts	R4
With 1 NO momentary contact	R5
With 1 NO + 2 NC momentary contacts	R6
With 3 NO momentary contacts	R7
With 3 NC momentary contacts	R8
With 1 NC momentary contact	R9

Red Mushroom Head Emergency Stop Buttons, Maintained (3 contacts maximum)	
Push-pull version with 2 NO maintained contacts	D1
Push-pull version with 2 NC maintained contacts	D2
Push-pull version with 1 NO + 1 NC maintained contacts	D3
Push-pull version with 2 NO + 1 NC maintained contacts	D4
Push-pull version with 1 NO maintained contact	D5
Push-pull version with 1 NO + 2 NC maintained contacts	D6
Push-pull version with 3 NO maintained contacts	D7
Push-pull version with 3 NC maintained contacts	D8
Push-pull version with 1 NC maintained contact	D9

Red Mushroom Head Emergency Stop Buttons, Maintained Contacts (2 maximum)	
Key to release with 2 NO maintained contacts	C1
Key to release with 2 NC maintained contacts	C2
Key to release with 1 NO + 1 NC maintained contacts	C3
Key to release with 1 NO maintained contact	C5
Key to release with 1 NC maintained contact	C9

LED Pilot Lights	
Blue color	PB
Green color	PG
Red color	PR
White color	PW
Yellow color	PY

Devices	
2 Positions O-I Rotary Actuator (O and I Maintained)	
With 2 NO maintained contacts	H1
With 2 NC maintained contacts	H2
With 1 NO + 1 NC maintained contacts	H3
With 2 NO + 1 NC maintained contacts	H4
With 1 NO maintained contact	H5
With 1 NO + 2 NC maintained contacts	H6
With 3 NO maintained contacts	H7
With 3 NC maintained contacts	H8
With 1 NC maintained contact	H9

Legend Plates for 2-Position Selector Switches (Located Above Device)

Text	Small	Large
O—I	SH01	LH01
ON—OFF	SH02	LH02
START—STOP	SH03	LH03
STOP—START	SH04	LH04
HAND—AUTO	SH05	LH05
MANU—AUTO	SH06	LH06
FORWARD—REVERSE	SH07	LH07
REMOTE—LOCAL	SH08	LH08
MARCHE—ARRET	SH09	LH09

3 Positions I-O-II Rotary Actuator (I and II maintained)	
With 2 NO maintained contacts	J1
With 2 NC maintained contacts	J2
With 1 NO + 1 NC maintained contacts	J3
With 2 NO + 1 NC maintained contacts	J4
With 1 NO + 2 NC maintained contacts	J6
With 3 NO maintained contacts	J7
With 3 NC maintained contacts	J8

3 Positions I-O-II Rotary Actuator (I and II spring-return to O)	
With 2 NO contacts	K1
With 2 NC contacts	K2
With 1 NO + 1 NC contacts	K3
With 2 NO + 1 NC contacts	K4
With 1 NO + 2 NC contacts	K6
With 3 NO contacts	K7
With 3 NC contacts	K8

3 Positions I-O-II Rotary Actuator (I Maintained and II Spring-Return to O)	
With 2 NO contacts	M1
With 2 NC contacts	M2
With 1 NO + 1 NC contacts	M3
With 2 NO + 1 NC contacts	M4
With 1 NO + 2 NC contacts	M6
With 3 NO contacts	M7
With 3 NC contacts	M8

3 Positions I-O-II Rotary Actuator (I Spring-Return to O + II Maintained)	
With 2 NO contacts	N1
With 2 NC contacts	N2
With 1 NO + 1 NC contacts	N3
With 2 NO + 1 NC contacts	N4
With 1 NO + 2 NC contacts	N6
With 3 NO contacts	N7
With 3 NC contacts	N8

Unicode® 2 Series Customized Control Station

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Devices		Devices	
16A Selector Switches ①		Ammeters 48 x 48 mm	
Other contact arrangements are available, contact your local sales representative.		1A C.T. and 3 F.L.C. with 0-1-3 scale	VA13
		1A C.T. and 5 F.L.C. with 0-1-5 scale	VA15
		1A C.T. and 6 F.L.C. with 0-1-6 scale	VA16
		5A C.T. and 3 F.L.C. with 0-1-3 scale	VA53
		5A C.T. and 5 F.L.C. with 0-1-5 scale	VA55
		5A C.T. and 6 F.L.C. with 0-1-6 scale	VA56
Devices		Box Options	
		Earth Stud	
		M6 earth stud	M6
		M8 earth stud	M8
		M10 earth stud	M1
		M5 earth stud for polyamide or polyester, M20 entry required	P5
		M6 earth stud for polyamide or polyester, M25 entry required	P6
		Earth Continuity Plate	
		Brass	EP
		Plug	
		Cover blanking plug	BP

2 position 2-pole Selector switch		S30
3 position 2-pole Selector switch		S31
2 position 2-pole switch		S32
3 position 2-pole Selector switch with spring return from 135° to 90°		S33
3 position 2-pole Selector switch with spring return from 45° to 90°		S34
2 position 4-pole switch		S35
3 position 4-pole Selector switch		S36
2 position 4-pole Selector switch		S37
3 position 3-pole Selector switch with spring return from 45° to 90°		S38
3 position 3-pole Selector switch with spring return from 135° to 90°		S39

Legend Plates for 3-Position Selector Switches
(Located Above Device)

Text	Small	Large
I—O—II	SJ01	LJ01
OFF—O—ON	SJ02	LJ02
START—NORMAL—STOP	SJ03	LJ03
HAND—OFF—AUTO	SJ04	LJ04
MANUAL—O—AUTO	SJ05	LJ05
FORWARD—OFF—REVERSE	SJ06	LJ06
LOCAL—REMOTE—AUTO	SJ07	LJ07
LOCAL—O—REMOTE	SJ08	LJ08
MARCHE—NORMAL—ARRET	SJ09	LJ09

① Additional configurations available. See Unicode 2 Series 16 Amp Switches in the Component and Accessories section. Choose the contact arrangement, then add the last four digits of the switch part number in the custom configured control station catalog number.

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Ordering Example:

Polyester Customized Control Station Specifications – Type U2



Polyester Customized Control Station Specifications — Type: U4		Address: _____
Company Name: _____		
Contact: _____		
Phone/Fax: _____		
Email: _____		Project: _____

Box Definition

Size 1		Size 2							
 01 □	 02 □	 03 * □	 04 □	 05 * □	 06 □	 07 □	 08 □	 09 * □	 26 □

Size 3															
 25 □	 10 * □	 11 □	 12 * □	 13 * □	 14 □	 15 * □	 16 □	 17 □	 18 □	 19 □	 20 □	 21 * □	 22 * □	 23 □	 24 □

* Terminal block available as option. (maximum: 10 x terminals 2.5mm²)

Entry Position ☐ ☒ ☐	Entries (clearance hole) ☒ M20 ☐ M25 ☐ 3/4" NPT (via hub) Earth Continuity Plate Brass Earth Plate as Standard ☐ Stainless Steel Earth Plate	Earth Stud (At Bottom) ☒ Without ☐ M6 Stainless Steel Earth Stud ☐ M8 Stainless Steel Earth Stud Location ☐ A ☐ B ☐ C ☐ D ☐ A, B, C, D
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Cable Glands ☒ Without ☐ Type: _____	Quantity: _____	Plugs ☒ Without ☐ Type: _____
--	------------------------	---

Nameplate <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th style="padding: 5px;">Option</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"> ☐ Without ☐ With (complete Type and color) </td> </tr> </tbody> </table>	Option	☐ Without ☐ With (complete Type and color)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th style="padding: 5px;">Type</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"> ☒ 58 x 18 Self-Adhesive Laminated Plastic ☐ 65 x 18 Screw On Laminated Plastic ☐ 65 x 18 Screw On in Stainless steel (available with black lettering only) Text (1 line): _____ </td> </tr> </tbody> </table>	Type	☒ 58 x 18 Self-Adhesive Laminated Plastic ☐ 65 x 18 Screw On Laminated Plastic ☐ 65 x 18 Screw On in Stainless steel (available with black lettering only) Text (1 line): _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th style="padding: 5px;">Color</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"> ☒ White (black letters) ☐ Blue (white letters) ☐ Yellow (black letters) ☐ Black (white letters) ☐ Red (white letters) ☐ Green (white letters) </td> </tr> </tbody> </table>	Color	☒ White (black letters) ☐ Blue (white letters) ☐ Yellow (black letters) ☐ Black (white letters) ☐ Red (white letters) ☐ Green (white letters)
Option								
☐ Without ☐ With (complete Type and color)								
Type								
☒ 58 x 18 Self-Adhesive Laminated Plastic ☐ 65 x 18 Screw On Laminated Plastic ☐ 65 x 18 Screw On in Stainless steel (available with black lettering only) Text (1 line): _____								
Color								
☒ White (black letters) ☐ Blue (white letters) ☐ Yellow (black letters) ☐ Black (white letters) ☐ Red (white letters) ☐ Green (white letters)								

Functions					
Position	Actuator	Contacts	Insert	Legend Plate	Guard
1	PG	0	0	0	0
4	A	1	03	0	0
7	D	2	0	0	0

* Terminal Blocks (optional)	Type	Quantity (10 maximum)
Option for Box No. 03-05-09-10-12-13-15-21-22 only	2.5 mm ²	

Additional Instructions: _____

Polyester Control Station

- Size 3 with 3 vertical actuators.
- 2 x M20 entries at bottom with brass earth continuity plate.
- Without earth stud.
- Without cable glands and plugs.
- White self-adhesive nameplate with black lettering.
- Text: MOTOR 4
- Position 1: Green pilot light without legend plate.
- Position 2: Green start push button with 2 x NO contacts.
- Green start insert without legend plate and guard.
- Position 7: Emergency stop push-pull mushroom head with 2 x NC contacts without legend plate and guard.

Part No.:
U23W211 PG A103 D2

The following inquiry forms should be filled out and sent to your local Appleton/ATX Representative.

Unicode® 2 Series Customized Control Station

Increased Safety

Polyamide

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Polyamide Customized Control Station Specifications — Type: U4

Company Name: _____
Contact: _____
Phone/Fax: _____
Email: _____

Address: _____
Project: _____

Box Definition

Size 1	Size 2	Size 3
 01 ☐	 34 ☐  04 ☐  09 ☐	 25 ☐  11 ☐  21 ☐  23 ☐

Entry Position



Entries — Clearance Hole

☐ M20

Earth Continuity Plate

☐ Brass Earth Plate
☐ Stainless Steel Earth Plate

Earth Stud — At Bottom

☐ Without
☐ M6 Stainless Steel Earth Stud
(via M20 entry)

Cable Glands

☐ Without
☐ Type: _____ Quantity: _____

Plugs

☐ Without
☐ Type: _____ Quantity: _____

Nameplate

Option	Type	Color
☐ Without	☐ 58 x 18 mm	☐ White (black letters)
☐ With (complete Type and color)	Self-Adhesive Laminated Plastic	☐ Blue (white letters)
	Text (1 line): _____	☐ Yellow (black letters)
		☐ Black (white letters)
		☐ Red (white letters)
		☐ Green (white letters)

Functions

Position	Actuator	Contacts	Insert	Legend Plate	Guard

Additional Instructions: _____

Unicode® 2 Series Customized Control Station

Increased Safety

Fiberglass Reinforced Polyester

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Polyester Customized Control Station Specifications – Type: U4

Company Name: _____

Address: _____

Contact: _____

Phone/Fax: _____

Email: _____

Project: _____

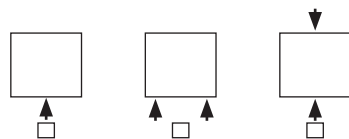
Box Definition

Size 1		Size 2									
01 ☐	02 ☐	03* ☐	04 ☐	05* ☐	06 ☐	07 ☐	08 ☐	09* ☐	26 ☐		

Size 3															
25 ☐	10* ☐	11 ☐	12* ☐	13* ☐	14 ☐	15* ☐	16 ☐	17 ☐	18 ☐	19 ☐	20 ☐	21* ☐	22* ☐	23 ☐	24 ☐

* Terminal block available as option. (maximum: 10 x terminals 2.5 mm²)

Entry Position



Entries — Clearance Hole

- ☐ M20
☐ M25 ☐ 3/4" NPT (via hub)

Earth Continuity Plate

- Brass Earth Plate as Standard
☐ Stainless Steel Earth Plate

Earth Stud — At Bottom

- ☐ Without
☐ M6 Stainless Steel Earth Stud
☐ M8 Stainless Steel Earth Stud

Location

- ☐ A ☐ B ☐ C ☐ D ☐ A, B, C, D

Cable Glands

- ☐ Without
☐ Type: _____

Quantity: _____

Plugs

- ☐ Without
☐ Type: _____

Quantity: _____

Nameplate

Option

- ☐ Without
☐ With
(complete
Type and
color)

Type

- ☐ 58 x 18 mm Self-Adhesive Laminated Plastic
☐ 65 x 18 mm Screw On Laminated Plastic
☐ 65 x 18 mm Screw On in Stainless steel (available
with black lettering only)

Text (1 line): _____

Color

- ☐ White (black letters) ☐ Blue (white letters)
☐ Yellow (black letters) ☐ Black (white letters)
☐ Red (white letters) ☐ Green (white letters)

Functions

Position	Actuator	Contacts	Insert	Legend Plate	Guard

* Terminal Blocks (optional)

Option for Box No. 03-05-09-10-12-13-15-21-22 only

Type

2.5 mm²

Quantity (10 maximum)

Additional Instructions:

Unicode® 2 Series Customized Control Station

Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Stainless Steel Customized Control Station Specifications — Type: U6

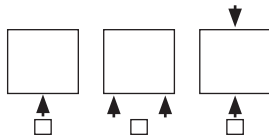
Company Name: _____ Address: _____
Contact: _____
Phone/Fax: _____
Email: _____ Project: _____

Box Definition

Size 1	Size 2	Size 3

* Terminal block available as option. (maximum: 10 x terminals 2.5 mm²)

Entry Position



Entries — Clearance Hole

- ☐ M20
☐ M25
☐ 3/4" NPT (via hub)

Earth Stud — At Bottom

- M6 Stainless Steel Earth Stud as Standard
☐ M8 Stainless Steel Earth Stud

Location

- ☐ A ☐ B ☐ C ☐ D ☐ A, B, C, D

Cable Glands

- ☐ Without
☐ Type: _____ Quantity: _____

Plugs

- ☐ Without
☐ Type: _____ Quantity: _____

Nameplate

Option	Type	Color
☐ Without	☐ 58 x 18 mm Self-Adhesive Laminated Plastic	☐ White (black letters)
☐ With	☐ 65 x 18 mm Screw On Laminated Plastic	☐ Blue (white letters)
(complete	☐ 65 x 18 mm Screw On in Stainless steel (available	☐ Yellow (black letters)
Type and	with black lettering only)	☐ Black (white letters)
color)	Text (1 line): _____	☐ Red (white letters)
		☐ Green (white letters)

Functions

Position	Actuator	Contacts	Insert	Legend Plate	Guard

* Terminal Blocks (optional)

Option for Box No. 03-09-28-31 only

Type

2.5 mm²

Quantity (10 maximum)

Additional Instructions:

Unicode® 2 Series Customized Control Station

Increased Safety

Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Aluminum Customized Control Station Specifications — Type: U8

Company Name: _____

Address: _____

Contact: _____

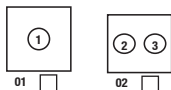
Phone/Fax: _____

Email: _____

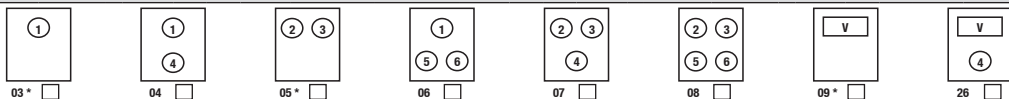
Project: _____

Box Definition

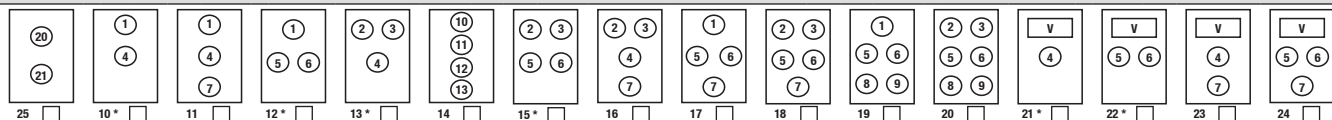
Size 1



Size 2

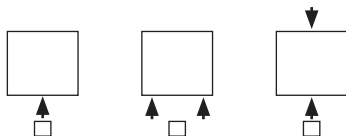


Size 3



* Terminal block available as option. (maximum: 10 x terminals 2.5 mm²)

Entry Position



Entries — Clearance Hole

- ☐ M20
- ☐ M25
- ☐ 3/4" NPT (via hub)

Earth Stud — At Bottom

- M5 External Earth Stud as Standard
- ☐ M6 Stainless Steel Earth Stud
- ☐ M8 Stainless Steel Earth Stud

Location

- ☐ A ☐ B ☐ C ☐ D ☐ A, B, C, D

Cable Glands

- ☐ Without
- ☐ Type: _____

Quantity: _____

Plugs

- ☐ Without
- ☐ Type: _____

Quantity: _____

Nameplate

Option

- ☐ Without
- ☐ With (complete Type and color)

Type

- ☐ 58 x 18 mm Self-Adhesive Laminated Plastic
 - ☐ 65 x 18 mm Screw On Laminated Plastic
 - ☐ 65 x 18 mm Screw On in Stainless steel (available with black lettering only)
- Text (1 line): _____

Color

- ☐ White (black letters) ☐ Blue (white letters)
- ☐ Yellow (black letters) ☐ Black (white letters)
- ☐ Red (white letters) ☐ Green (white letters)

Functions

Position	Actuator	Contacts	Insert	Legend Plate	Guard

* Terminal Blocks (optional)

Option for Box No. 03-05-09-10-12-13-15-21-22 only

Type

2.5 mm²

Quantity (10 maximum)

Additional Instructions:

Unicode® 2 Series Pre-Drilled Control Stations

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- For use in washdown areas.

Features

- Enclosures are rated for IP66 with firmly secured gasket.
- Captive, corrosion resistant stainless steel cover screws.

Standard Materials

- Polyamide
 - Body, cover, cable gland and blanking plug: polyamide, black finish
- Polyester
 - Body and cover: fiberglass reinforced polyester, black finish.
- Stainless Steel
 - Body, cover and cover screws: 316L stainless steel, natural finish
- Aluminum
 - Body and cover: aluminum with gray epoxy powder coating.
- Cable gland and blanking plug: polyamide
- Cover screws for 316L stainless steel or aluminum body: 304 stainless steel
- Cover screws for fiberglass reinforced polyester body: 316 stainless steel
- Nameplate: white self-adhesive laminated plastic

Certifications and Compliances

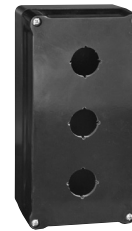
◆ATEX or IECEx Certification

• Certification Type PCe (Polyamide)

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex de IIC or Ex demb IIC
 - Temperature class: T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T167 °C to T75 °C
 - Ambient Temperature: -20 °C to +55 °C
- CE Declaration of Conformity: 50221
- ATEX Certificate: LCIE 00 ATEX 6047
- IEC Certificate: LCIE Ex 00.017
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK09

• Certification Type CSPe (Polyester)

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex de IIC or Ex demb IIC
 - Temperature class: T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T75 °C
 - Ambient Temperature: -55 °C to +70 °C
- CE Declaration of Conformity: 52084



Polyester U23W211



Polyamide U43W211



Stainless Steel U62W229



Aluminum U83W211

- ATEX Certificate: LCIE 00 ATEX 3032X
- IECEx Certificate: IECEx LCI 09.0016X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

• Certification Type JBe (Stainless Steel)

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex de IIC or Ex demb IIC
 - Temperature class: T5 to T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T80 °C to T95 °C
- Ambient Temperature: -50 °C to +70 °C
- CE Declaration of Conformity: 50232
- ATEX Certificate: LCIE 02 ATEX 6118X
- IECEx Certificate: LCI 11.0008X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

• Certification Type PCe (Aluminum)

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex de IIC or Ex demb IIC
 - Temperature class: T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T75 °C
- CE Declaration of Conformity: 50221
- ATEX Certificate: LCIE 02 ATEX 6047
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

Unicode® 2 Series Pre-Drilled Control Stations

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

◆EURASEC Certification

- **Certification Type PCe (Polyamide)**
 - EURASEC RU C-FR ГБ 05.B.00911
- **Certification Type CSPe (Polyester)**
 - EURASEC RU C-FR ГБ 05.B.00911
- **Certification Type JBe (Stainless Steel)**
 - EURASEC RU C-FR ГБ 05.B.00911

◆Others Certification ①

- **Certification Type PCe (Polyamide)**
 - INMETRO Certificate: BVC 11.0640-X
- **Certification Type CSPe (Polyester)**
 - INMETRO Certificate: BVC 11.0637-X
- **Certification Type JBe (Stainless Steel)**
 - INMETRO Certificate: BVC 11.0418-X

① Inmetro certification available on special request only. Contact your local sales for more information.
Aluminum Unicode® 2 Series Control Stations and Switches are not recognized for use in any NBR IEC Brazilian governed areas.

Unicode® 2 Series Pre-Drilled Control Stations

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

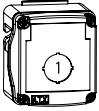
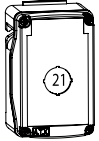
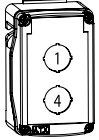
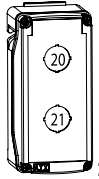
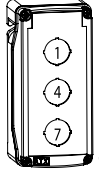
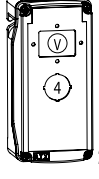
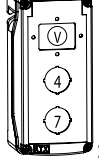
Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Polyamide Pre-drilled Boxes for Control Stations

Included: 1 white self-adhesive laminated plastic nameplate (black lettering),
2 clearance entries at bottom.



	Description/ Function	Entries	Weight kg	Volume dm³	Catalog Number 2 Bottom
Size 1 Pre-Drilled Enclosures					
 01	For 1 actuator 1 vertical rail	M20	0.7	2.5	U41W201
Size 2 Pre-Drilled Enclosures					
 34	For 1 actuator 1 vertical rail	M20	0.9	2.5	U42W234
 04	For 2 actuators 1 vertical rail	M20	0.9	2.5	U42W204
Size 3 Pre-Drilled Enclosures					
 25	For 2 actuators 1 vertical rail	M20	1.0	2.5	U43W225
 11	For 3 actuators 1 vertical rail	M20	1.0	2.5	U43W211
 21	For 1 ammeter 48 x 48 + 1 actuator 1 vertical rail	M20	1.0	2.5	U43W221
 23	For 1 ammeter 48 x 48 + 2 actuators 1 vertical rail	M20	1.0	2.5	U43W223

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Pre-Drilled Control Stations

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Polyester Pre-Drilled Boxes for Control Stations

Included: 1 white self-adhesive laminated plastic nameplate (black lettering), 1 earth continuity brass plate, threaded entries.



Description/ Function	Entries	Weight kg	Volume dm³	Catalog Number 1 Bottom	Catalog Number 2 Bottom	Catalog Number Feed-Thru
Size 1 Pre-Drilled Enclosures						
 01 For 1 actuator 1 horizontal rail	M20	0.8	2.7	U21W101	U21W201	U21U101
	M25	0.8	2.7	U21W301	U21W401	U21U301
 02 For 2 actuators 1 horizontal rail	M20	0.8	2.7	U21W102	U21W202	U21U102
	M25	0.8	2.7	U21W302	U21W402	U21U302
Size 2 Pre-Drilled Enclosures						
 04 For 2 actuators 1 vertical rail	M20	1.0	4.2	U22W104	U22W204	U22U104
	M25	1.0	4.2	U22W304	U22W404	U22U304
 06 For 3 actuators 2 horizontal rails	M20	1.0	4.2	U22W106	U22W206	U22U106
	M25	1.0	4.2	U22W306	U22W406	U22U306
 08 For 4 actuators 2 horizontal rails	M20	1.0	4.2	U22W108	U22W208	U22U108
	M25	1.0	4.2	U22W308	U22W408	U22U308
 26 For 1 ammeter 48x48 +1 actuator 1 vertical rail	M20	1.0	4.2	U22W126	U22W226	U22U126
	M25	1.0	4.2	U22W326	U22W426	U22U326

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Pre-Drilled Control Stations

Increased Safety

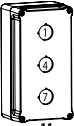
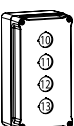
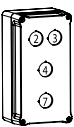
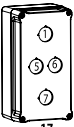
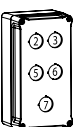
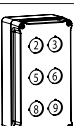
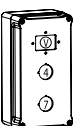
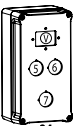
Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Polyester Pre-Drilled Boxes for Control Stations

Included: 1 white self-adhesive laminated plastic nameplate (black lettering), 1 earth continuity brass plate, threaded entries.

Polyester Pre-Drilled Boxes for Control Stations							
Included: 1 white self-adhesive laminated plastic nameplate (black lettering), 1 earth continuity brass plate, threaded entries.							
Description/ Function	Entries	Weight kg	Volume dm³	Catalog Number 1 Bottom	Catalog Number 2 Bottom	Catalog Number Feed–Thru	
Size 3 Pre-Drilled Enclosures — 230 mm x 120 mm x 91 mm							
	For 3 actuators 1 vertical rail	M20	1.1	4.2	U23W111	U23W211	U23U111
		M25	1.1	4.2	U23W311	U23W411	U23U311
	For 4 actuators 1 vertical rail	M20	1.1	4.2	U23W114	U23W214	U23U114
		M25	1.1	4.2	U23W314	U23W414	U23U314
	For 4 actuators 3 horizontal rails	M20	1.1	4.2	U23W116	U23W216	U23U116
		M25	1.1	4.2	U23W316	U23W416	U23U316
	For 4 actuators 3 horizontal rails	M20	1.1	4.2	U23W117	U23W217	U23U117
		M25	1.1	4.2	U23W317	U23W417	U23U317
	For 5 actuators 3 horizontal rails	M20	1.1	4.2	U23W118	U23W218	U23U118
		M25	1.1	4.2	U23W318	U23W418	U23U318
	For 6 actuators 3 horizontal rails	M20	1.1	4.2	U23W120	U23W220	U23U120
		M25	1.1	4.2	U23W320	U23W420	U23U320
	For 1 ammeter 48x48 + 2 actuators 1 vertical rail	M20	1.1	4.2	U23W123	U23W223	U23U123
		M25	1.1	4.2	U23W323	U23W423	U23U323
	For 1 ammeter 48x48 + 3 actuators 1 vertical rail (V) 2 horizontal rails (5-6-7)	M20	11.1	4.2	U23W124	U23W224	U23U124
		M25	11.1	4.2	U23W324	U23W424	U23U324

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Pre-Drilled Control Stations

Increased Safety

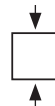
Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Stainless Steel Pre-drilled Boxes for Control Stations

Included: 1 white self-adhesive laminated plastic nameplate (black lettering), clearance entries.



Description/ Function	Entries	Weight kg	Volume dm³	Catalog Number 1 Bottom	Catalog Number 2 Bottom	Catalog Number Feed–Thru	
Size 1 Pre-Drilled Enclosures							
 01	For 1 actuator 1 vertical rail	M20	1.0	2.7	U61W101	U61W201	U61U101
		M25	1.0	2.7	U61W301	U61W401	U61U301
 27	For 2 actuators 1 vertical rail	M20	1.0	2.7	U61W127	U61W227	U61U127
		M25	1.0	2.7	U61W327	U61W427	U61U327
Size 2 Pre-Drilled Enclosures							
 04	For 2 actuators 1 vertical rail	M20	1.5	3.6	U62W104	U62W204	U62U104
		M25	1.5	3.6	U62W304	U62W404	U62U304
 29	For 3 actuators 1 vertical rail	M20	1.5	3.6	U62W129	U62W229	U62U129
		M25	1.5	3.6	U62W329	U62W429	U62U329
 26	For 1 ammeter 48x48 + 1 actuator 1 vertical rail	M20	1.5	3.6	U62W126	U62W226	U62U126
		M25	1.5	3.6	U62W326	U62W426	U62U326
Size 3 Pre-Drilled Enclosures							
 30	For 4 actuators 2 vertical rails	M20	1.8	5.3	U63W130	U63W230	U63U130
		M25	1.8	5.3	U63W330	U63W430	U63U330
 32	For 6 actuators 2 vertical rails	M20	1.8	5.3	U63W132	U63W232	U63U132
		M25	1.8	5.3	U63W332	U63W432	U63U332
 33	For 1 ammeter 48 x 48 + 2 actuators 1 vertical rail (V) 1 horizontal rail (5-6)	M20	1.8	5.3	U63W133	U63W233	U63U133
		M25	1.8	5.3	U63W333	U63W433	U63U333

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Pre-Drilled Control Stations

Increased Safety

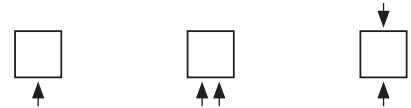
Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

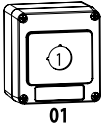
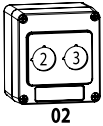
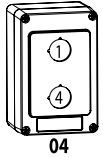
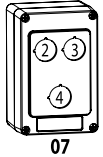
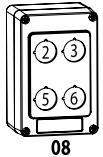
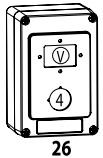
Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Aluminum Pre-drilled boxes for Control Stations

Included: 1 white self-adhesive laminated plastic nameplate (black lettering), clearance entries.



Description/Function	Entries	Weight kg	Volume dm ³	Catalog Number 1 Bottom	Catalog Number 2 Bottom	Catalog Number Feed-Thru
Size 1 Pre-Drilled Enclosures						
 01	For 1 actuator 1 horizontal rail	M20	1.0	2.7	U81W101	U81W201 U81U101
 02	For 2 actuators 1 horizontal rail	M20	1.0	2.7	U81W102	U81W202 U81U102
Size 2 Pre-Drilled Enclosures						
 04	For 2 actuators 1 vertical rail	M20	1.5	2.7	U82W104	U82W204 U82U104
 07	For 3 actuators 2 horizontal rails	M20	1.5	2.7	U82W107	U82W207 U82U107
 08	For 4 actuators 2 horizontal rails	M20	1.5	2.7	U82W108	U82W208 U82U108
 26	For 1 Ammeter 48x48 + 1 actuator 1 vertical rail	M20	1.5	2.7	U82W126	U82W226 U82U126

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Pre-Drilled Control Stations

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

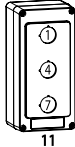
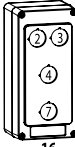
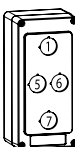
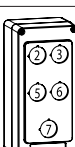
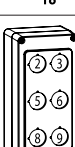
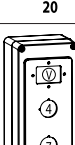
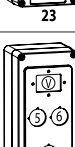
Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Aluminum Pre-drilled boxes for Control Stations

Included: 1 white self-adhesive laminated plastic nameplate (black lettering), clearance entries.



Description/Function	Entries	Weight kg	Volume dm³	Catalog Number 1 Bottom	Catalog Number 2 Bottom	Catalog Number Feed-Thru	
Size 3 Pre-Drilled Enclosures — 230 mm x 110 mm x 95 mm							
 11	For 3 actuators 1 vertical rail	M20	1.8	4.2	U83W111	U83W211	U83U111
		M25	1.8	4.2	U83W311	U83W411	U83U311
 16	For 4 actuators 3 horizontal rails	M20	1.8	4.2	U83W116	U83W216	U83U116
		M25	1.8	4.2	U83W316	U83W416	U83U316
 17	For 4 actuators 3 horizontal rails	M20	1.8	4.2	U83W117	U83W217	U83U117
		M25	1.8	4.2	U83W317	U83W417	U83U317
 18	For 5 actuators 3 horizontal rails	M20	1.8	4.2	U83W118	U83W218	U83U118
		M25	1.8	4.2	U83W318	U83W418	U83U318
 20	For 6 actuators 3 horizontal rails	M20	1.8	4.2	U83W120	U83W220	U83U120
		M25	1.8	4.2	U83W320	U83W420	U83U320
 23	For 1 ammeter 48x48 + 2 actuators 1 vertical rail	M20	1.8	4.2	U83W123	U83W223	U83U123
		M25	1.8	4.2	U83W323	U83W423	U83U323
 24	For 1 ammeter 48x48 + 3 actuators 1 vertical rail (V) 2 horizontal rails (5-6-7)	M20	1.8	4.2	U83W124	U83W224	U83U124
		M25	1.8	4.2	U83W324	U83W424	U83U324

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Pre-Drilled Control Stations

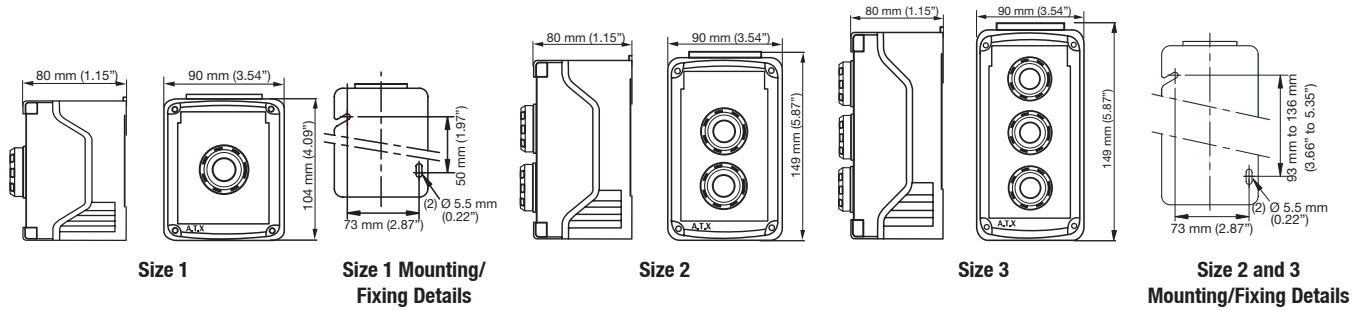
Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

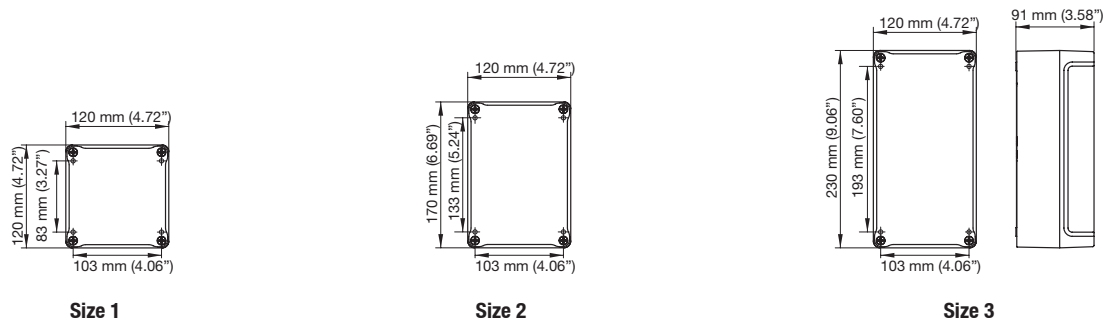
Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Polyamide

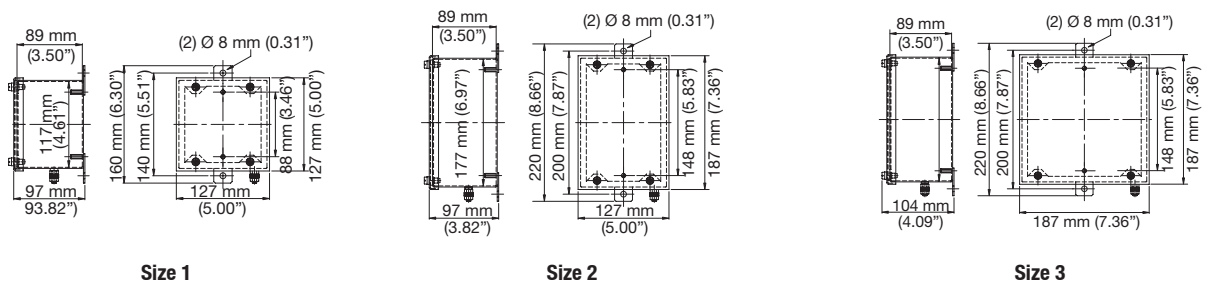


Fiberglass Reinforced Polyester

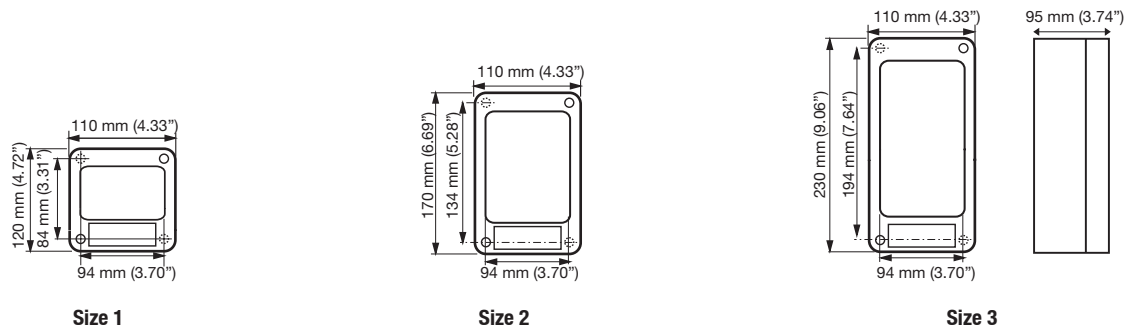


Mounting/Fixing Details for Above Boxes: Four Holes Ø 5 mm

316L Stainless Steel



Aluminum



Mounting/Fixing Details for above Boxes: Two Holes Ø 5 mm

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Accessories : Push Buttons

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Features

- Can be equipped with up to 3 Unicode 2 Contact Blocks (UCB) Series contact blocks.
- ATEX and IECEx certified.
- TS35 rail mounted.
- Panel mounted.

Standard Materials

- Body: polyamide
- Seal: ethylene propylene diene Monomer (M-class) rubber (EPDM)

Certifications and Compliances

◆ ATEX/ IECEx Certification

- Certification Type TCE
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex e IIC Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: -40 °C to +60 °C
 - CE Declaration of Conformity: 5C242
 - ATEX Certificate: LCIE 09 ATEX 3010U
 - IECEx Certificate: IECEx LCI 09.0011U
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10

◆ EURASEC Certification

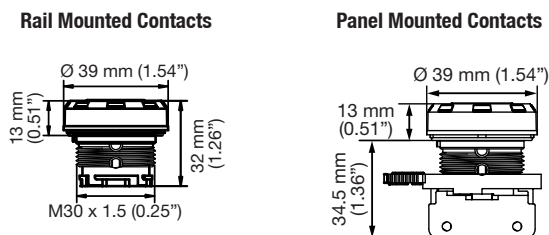
- EURASEC RU C-FR. F5 05.B00909

◆ Others Certification ①

- INMETRO Certificate: BVC 10.0044-U



Dimensions in Millimeters



① Inmetro certification available on special request only. Contact your local sales for more information.

Unicode® 2 Series Accessories : Push Buttons

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Weight in Kilograms			Volume dm³			Catalog Number	
Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted	Pack	Rail Mounted	Panel Mounted	
Spring Return - Push Button (contact block to be ordered separately) <i>Legend plates, guards, blanking plugs (see Accessories page).</i>							
Red + Green	0.03	0.05	0.06	0.17	1	UA0RGR	UA0RGP
Green	0.03	0.05	0.06	0.17	1	UA0GR	UA0GP
Red	0.03	0.05	0.06	0.17	1	UA0RR	UA0RP
White	0.03	0.05	0.06	0.17	1	UA0WR	UA0WP
Blue	0.03	0.05	0.06	0.17	1	UA0BR	UA0BP
Yellow	0.03	0.05	0.06	0.17	1	UA0YR	UA0YP
1-Pole Contact Blocks							
1 x NO						UCB5R	UCB5P
1 x NC	0.032		0.06		1	UCB9R	UCB9P
Spare Parts							
Rail to panel mounted conversion adaptor	0.02		0.08		1		UPMA

Marking	Color	Weight kg	Volume dm ³	Pack	Catalog Number
Set of Five Spare Inserts					
(unmarked)	Green	0.01	0.01	1	UIAG
(unmarked)	Red	0.01	0.01	1	UIAR
(unmarked)	Yellow	0.01	0.01	1	UIAY
(unmarked)	White	0.01	0.01	1	UIAW
(unmarked)	Blue	0.01	0.01	1	UIAB
(unmarked)	Black	0.01	0.01	1	UIAN
ON	Green	0.01	0.01	1	UIA01
OFF	Red	0.01	0.01	1	UIA02
START	Green	0.01	0.01	1	UIA03
STOP	Red	0.01	0.01	1	UIA04
MARCHE	Green	0.01	0.01	1	UIA05
ARRET	Red	0.01	0.01	1	UIA06
I	Green	0.01	0.01	1	UIA07
O	Red	0.01	0.01	1	UIA08

Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Accessories : Mushroom Push Buttons

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Features

- Can be equipped with up to 3 UCB Series Contact Blocks contact blocks.
- ATEX and IECEx certified.
- TS35 rail mounted.
- Panel mounted.

Standard Materials

- Body: polyamide
- Seal: ethylene propylene diene Monomer (M-class) rubber (EPDM)

Certifications and Compliances

◆ATEX/ IECEx Certification

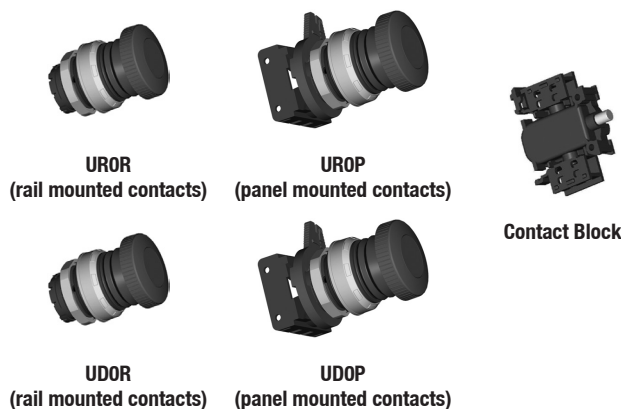
- Certification Type TCE
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex e IIC Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: -40 °C to +60 °C
 - CE Declaration of Conformity: 5C242
 - ATEX Certificate: LCIE 09 ATEX 3010U
 - IECEx Certificate: IECEx LCI 09.0011U
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10

◆EURASEC Certification

- EURASEC RU C-FR. Г5 05.B00909

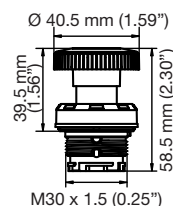
◆Others Certification ①

- INMETRO Certificate: BVC 10.0044-U

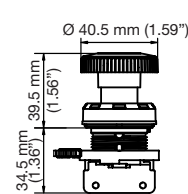


Dimensions in Millimeters

Rail Mounted Contacts



Panel Mounted Contacts



	Weight kg		Volume dm³		Pack	Catalog Number	
	Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted		Rail Mounted	Panel Mounted
Spring Return Mushroom Head Push Button (contact block to be ordered separately)							
Legend plates, guards, blanking plugs (see Accessories page).							
Red	0.045	0.06	0.26	0.12	1	UR0R	UR0P
Black	0.045	0.06	0.26	0.12	1	UB0R	UB0P
Push-Pull Mushroom Head Push Button (contact block to be ordered separately)							
Legend plates, guards, blanking plugs (see Accessories page).							
Red Emergency Stop	0.045	0.06	0.12	0.26	1	UD0R	UD0P
1-Pole Contact Blocks							
1 x NO	0.032		0.06		1	UCB5R	UCB5P
1 x NC						UCB9R	UCB9P
Spare Parts							
Rail to panel mounted conversion adaptor	0.02		0.08		1		UPMA

① Inmetro certification available on special request only. Contact your local sales for more information.

Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Accessories : Key Release Mushroom Push Buttons

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Features

- Can be equipped with up to 2 Unicode 2 Contact Blocks (UCB) Series contact blocks.
- ATEX certified.
- TS35 rail mounted.
- Panel mounted.

Standard Materials

- Body: thermosetting plastic
- Seal: ethylene propylene diene Monomer (M-class) rubber (EPDM)

Certifications and Compliances

◆ ATEX Certification

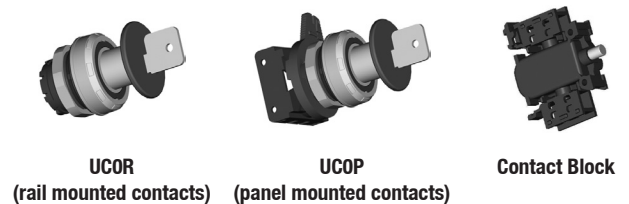
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 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex e II
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: -20 °C to +70 °C
 - CE Declaration of Conformity: 5C206
 - ATEX Certificate: LCIE 00 ATEX 0002U
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): 7 Joules

◆ EURASEC Certification

- EURASEC RU C-FR.ГБ 05.B00909

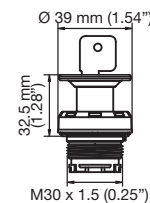
◆ Others Certification ①

- INMETRO Certificate: BVC 11.0644-U

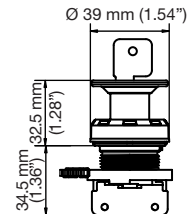


Dimensions in Millimeters

Rail Mounted Contacts



Panel Mounted Contacts



Weight kg		Volume dm³		Catalog Number		
Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted	Pack	Rail Mounted	Panel Mounted
Key Release Mushroom Head Push Button (contact block to be ordered separately)						
Legend plates, guards, blanking plugs (see Accessories page).						
Red	0.085	0.096	0.09	0.25	1	UC0RUC0P
1-Pole Contact Blocks						
1 x NO						
1 x NC	0.032		0.06		1	UCB5RUCB9RUCB5PUCB9P
Spare Parts						
Spare key (type 4A 185)	—		—		1	SK4A185SK4A185
Rail to panel mounted conversion adaptor	0.02		0.08		1	UPMA

① Inmetro certification available on special request only. Contact your local sales for more information.

Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Accessories : Key Momentary Push Buttons

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Features

- Can be equipped with up to 2 Unicode 2 Contact Blocks (UCB) Series contact blocks.
- ATEX certified.
- TS35 rail mounted.
- Panel mounted.

Standard Materials

- Body: thermosetting plastic
- Seal: ethylene propylene diene Monomer (M-class) rubber (EPDM)

Certifications and Compliances

◆ ATEX Certification

- Certification Type AUX
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex e II
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tD A21
- Surface Temperature: -20 °C to +70 °C
- CE Declaration of Conformity: 5C206
- ATEX Certificate: LCIE 00 ATEX 0002U
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): 7 Joules

◆ EURASEC Certification

- EURASEC RU C-FR.ГБ 05.B00909

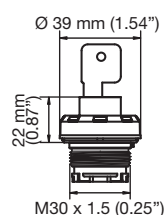
◆ Others Certification ①

- INMETRO Certificate: BVC 11.0644-U

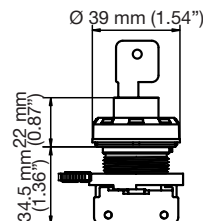


Dimensions in Millimeters (Inches)

Rail Mounted Contacts



Panel Mounted Contacts



	Weight kg		Volume dm³		Pack	Catalog Number	
	Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted		Rail Mounted	Panel Mounted
Key Momentary Push Button (contact block to be ordered separately)							
Legend plates, guards, blanking plugs (see Accessories page).							
Key removable in both positions	0.080	0.093	0.08	0.20	1	UE0R	UE0P
Key removable in ON positions	0.080	0.093	0.08	0.20	1	UF0R	UF0P
Key removable in OFF positions	0.080	0.093	0.08	0.20	1	UG0R	UG0P
1-Pole Contact Blocks							
1 x NO	0.032		0.06		1	UCB5R	UCB5P
1 x NC						UCB9R	UCB9P
Spare Parts							
Spare key (type 4A 185)	—		—		1	SK4A185	SK4A185
Rail to panel mounted conversion adaptor	0.02		0.08		1		UPMA

① Inmetro certification available on special request only. Contact your local sales for more information.

Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Accessories : Rotary Actuators

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Features

- Can be equipped with up to 2 Unicode 3 Contact Blocks (UCB) Series contact blocks.
- ATEX and IECEx certified.
- TS35 rail mounted.
- Panel mounted.

Standard Materials

- Body: thermosetting plastic
- Seal: ethylene propylene diene Monomer (M-class) rubber (EPDM)

Certifications and Compliances

◆ ATEX/ IECEx Certification

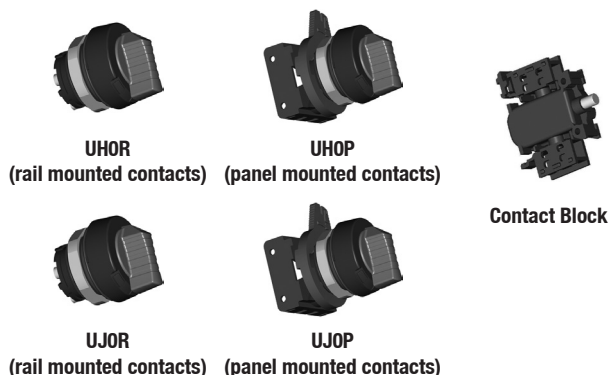
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 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex e IIC Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: -40 °C to +60 °C
 - CE Declaration of Conformity: 5C242
 - ATEX Certificate: LCIE 09 ATEX 3010U
 - IECEx Certificate: IECEx LCI 09.0011U
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10

◆ EURASEC Certification

- EURASEC RU C-FR. Г5 05.B00909

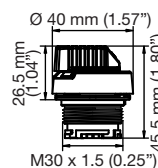
◆ Others Certification ①

- INMETRO Certificate: BVC 11.0644-U

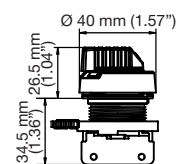


Dimensions in Millimeters

Rail Mounted Contacts



Panel Mounted Contacts



① Inmetro certification available on special request only. Contact your local sales for more information.

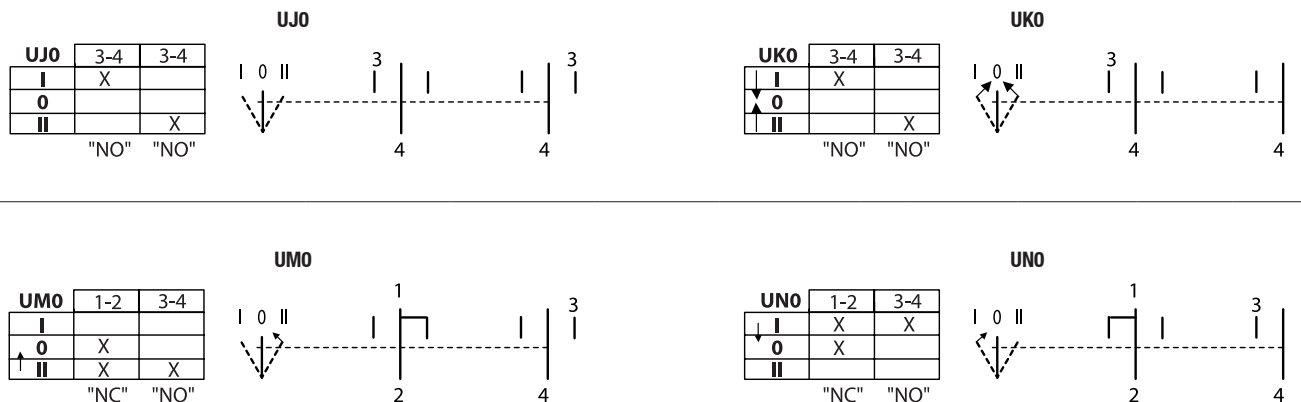
Unicode® 2 Series Accessories : Rotary Actuators

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

						Catalog Number			
						Rail Mounted		Panel Mounted	
						Weight kg	Volume dm³		
	Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted	Pack				
2-Position Rotary Actuator (contact block to be ordered separately)									
<i>Legend plates, guards, blanking plugs (see Accessories page).</i>									
2-Positions Selector Switch (O-I), 2 maintained positions	0.038	0.051	0.09	0.22	1	UH0R	UH0P		
3-Position Rotary Actuator (contact block to be ordered separately)									
<i>Legend plates, guards, blanking plugs (see Accessories page).</i>									
3-Position Selector Switch, I and II position maintained (I-O-II)	0.038	0.051	0.09	0.22	1	UJ0R	UJ0P		
3-Position Selector Switch, I and II spring return to O (I->O<-II)	0.038	0.051	0.09	0.22	1	UK0R	UK0P		
3-Position Selector Switch, I maintained, II spring return to O (I-O<-II)	0.038	0.051	0.09	0.22	1	UM0R	UM0P		
3-Position Selector Switch, I spring return to O, II maintained (I->O-II)	0.038	0.051	0.09	0.22	1	UN0R	UN0P		
1-Pole Contact Blocks									
1 x NO	0.032		0.06		1	UCB5R	UCB5P		
1 x NC						UCB9R	UCB9P		
Spare Parts									
Rail to panel mounted conversion adaptor	0.02		0.08		1	—	UPMA		

Wiring Diagrams



Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Accessories : Illuminated Push Buttons

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Features

- Can be equipped with up to 2 Unicode 2 Contact Blocks (UCB) Series contact blocks — not supplied.
- ATEX and IECEx certified.
- TS35 rail mounted.
- High intensity single LED light.
- Long lifetime over 100,000 hours.
- Panel mounted.
- Rated operating voltage (Ue): 12 Vac to 254 Vac, 50/60 Hz and 12 Vdc to 60 Vdc.
- Terminal connection: 2.5 mm²
- Operational life: 100,000 hours.

Standard Materials

- Body: polyamide
- Lens: polycarbonate
- Seal: ethylene propylene diene Monomer (M-class) rubber (EPDM)

Certifications and Compliances

◆ ATEX/ IECEx Certification

• Certification Type TCe (Actuator and Lens).

- Gas: Zone 1 and 2
- Conforming to ATEX 94/9/CE: Ⓔ II 2 G
- Type of Protection: Ex e IIC Gb
- Dust: Zone 21 and 22
- Conforming to ATEX 94/9/CE: Ⓔ II 2 D
- Type of Protection: Ex tb IIIC Db
- Surface Temperature: -40 °C to +60 °C
- CE Declaration of Conformity: 5C242
- ATEX Certificate: LCIE 09 ATEX 3010U
- IECEx Certificate: IECEx LCI 09.0011U
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

• Certification Type CVe (Contact Block and Pilot Light)

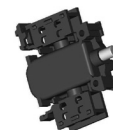
- Gas: Zone 1 and 2
- Conforming to ATEX 94/9/CE: Ⓔ II 2 G
- Type of Protection: Ex e IIC
- Dust: Zone 21 and 22
- Conforming to ATEX 94/9/CE: Ⓔ II 2 D
- Type of Protection: Ex tD A21
- Surface Temperature: -40 °C to +75 °C
- CE Declaration of Conformity: 5C243
- ATEX Certificate: LCIE 09 ATEX 3001U
- IECEx Certificate: IECEx LCI 09.0002U



ULG0H
(rail mounted contacts)



ULG0P
(panel mounted contacts)



Contact Block



UIL08

◆ EURASEC Certification

• Certification Type TCe (Actuator and Lens).

- EURASEC RU C-FR. Г5 05.B00909

• Certification Type CVe (Contact Block and Pilot Light)

- EURASEC RU C-FR. Г5 05.B00909

◆ Others Certification ①

• Certification Type TCe (Actuator and Lens).

- INMETRO Certificate: BVC 10.0044-U

• Certification Type CVe (Contact Block and Pilot Light)

- INMETRO Certificate: BVC 10.0047-U

① Inmetro certification available on special request only. Contact your local sales for more information.

Unicode® 2 Series Accessories : Illuminated Push Buttons

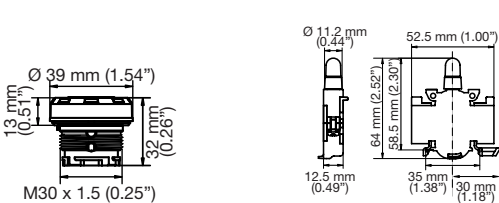
Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

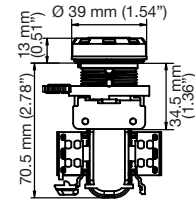
							Catalog Number	
		Weight kg		Volume dm ³			Rail Mounted	Panel Mounted
		Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted	Pack		
Spring Return Illuminated Push Button (contact block to be ordered separately) <i>Legend plates, guards, blanking plugs (see Accessories page).</i>								
	Green	0.062	0.075	0.26	0.28	1	ULG0R	ULG0P
	Red	0.062	0.075	0.26	0.28	1	ULR0R	ULR0P
	White	0.062	0.075	0.26	0.28	1	ULW0R	ULW0P
	Blue	0.062	0.075	0.26	0.28	1	ULB0R	ULB0P
	Yellow	0.062	0.075	0.26	0.28	1	ULY0R	ULY0P
1-Pole Contact Blocks								
	1 x NO	0.032		0.06		1	UCB5R	UCB5P
	1 x NC						UCB9R	UCB9P
Spare Parts								
	Rail to panel mounted conversion adaptor	0.02		0.08		1	—	UPMA

Marking	Color	Weight kg	Volume dm ³	Pack	Catalog Number
Set of Five Spare Inserts					
(unmarked)	Green	0.01	0.01	1	UIAG
(unmarked)	Red	0.01	0.01	1	UIAR
(unmarked)	Yellow	0.01	0.01	1	UIAY
(unmarked)	White	0.01	0.01	1	UIAW
(unmarked)	Blue	0.01	0.01	1	UIAB
(unmarked)	Black	0.01	0.01	1	UIAN
ON	Green	0.01	0.01	1	UIA01
OFF	Red	0.01	0.01	1	UIA02
START	Green	0.01	0.01	1	UIA03
STOP	Red	0.01	0.01	1	UIA04
MARCHE	Green	0.01	0.01	1	UIA05
ARRET	Red	0.01	0.01	1	UIA06
I	Green	0.01	0.01	1	UIA07
O	Red	0.01	0.01	1	UIA08

Dimensions in Millimeters

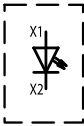


Rail Mounted Contacts



Panel Mounted Contacts

Wiring Diagram



Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Accessories : Pilot Lights

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Features

- ATEX and IEC certified.
- TS35 rail mounted.
- High intensity single LED light.
- Long lifetime over 100,000 hours.
- Rated operating voltage (Ue): 12 Vac to 254 Vac, 50/60 Hz and 12 Vdc to 60 Vdc.
- Terminal connection: 2.5 mm²
- Operational life: 100,000 hours.

Standard Materials

- Body: polyamide
- Lens: polycarbonate
- Seal: ethylene propylene diene Monomer (M-class) rubber (EPDM)

Certifications and Compliances

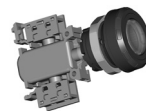
◆ATEX/ IECEx Certification

• Certification Type TCe (Actuator and Lens)

- Gas: Zone 1 and 2
- Conforming to ATEX 94/9/CE: Ⓔ II 2 G
- Type of Protection: Ex e IIC Gb
- Dust: Zone 21 and 22
- Conforming to ATEX 94/9/CE: Ⓔ II 2 D
- Type of Protection: Ex tb IIIC Db
- Surface Temperature: -40 °C to +60 °C
- CE Declaration of Conformity: 5C242
- ATEX Certificate: LCIE 09 ATEX 3010U
- IECEx Certificate: IECEx LCI 09.0011U
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

• Certification Type CVe (Contact Block and Pilot Light)

- Gas: Zone 1 and 2
- Conforming to ATEX 94/9/CE: Ⓔ II 2 G
- Type of Protection: Ex e IIC
- Dust: Zone 21 and 22
- Conforming to ATEX 94/9/CE: Ⓔ II 2 D
- Type of Protection: Ex tD A21
- Surface Temperature: -40 °C to +75 °C
- CE Declaration of Conformity: 5C243
- ATEX Certificate: LCIE 09 ATEX 3001U
- IECEx Certificate: IECEx LCI 09.0002U



UPG0R
(rail mounted contacts)



UPG0P
(panel mounted contacts)

◆EURASEC Certification

• Certification Type TCe (Actuator and Lens).

- EURASEC RU C-FR. ГБ 05.B00909

• Certification Type CVe (Contact Block and Pilot Light)

- EURASEC RU C-FR. ГБ 05.B00909

◆Others Certification ①

• Certification Type TCe (Actuator and Lens).

- INMETRO Certificate: BVC 10.0044-U

• Certification Type CVe (Contact Block and Pilot Light)

- INMETRO Certificate: BVC 10.0047-U

① Inmetro certification available on special request only. Contact your local sales for more information.

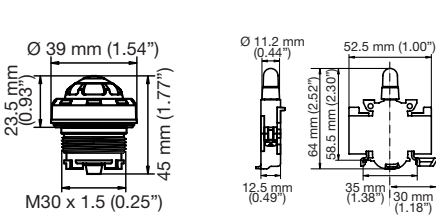
Unicode® 2 Series Accessories : Pilot Lights

Components for Increased Safety Enclosures

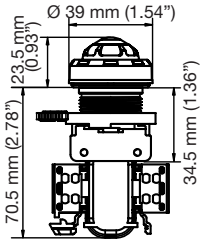
Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

	Weight kg		Volume dm ³		Pack	Catalog Number	
	Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted		Rail Mounted	Panel Mounted
Pilot Light: 12 Vac to 254, Vac 50/60 Hz, 12 Vdc to 60 Vdc <i>Legend plates, guards, blanking plugs (see Accessories page).</i>							
Green	0.056	0.069	0.29	0.31	1	UPG0R	UPG0P
Red	0.056	0.069	0.29	0.31	1	UPR0R	UPR0P
White	0.056	0.069	0.29	0.31	1	UPW0R	UPW0P
Blue	0.056	0.069	0.29	0.31	1	UPB0R	UPB0P
Yellow	0.056	0.069	0.29	0.31	1	UPY0R	UPY0P
Spare Parts							
Rail to panel mounted conversion adaptor		0.02		0.08	1		UPMA
Spare Lenses							
Green		0.03		0.06	1	UPGL	UPGL
Red		0.03		0.06	1	UPRL	UPRL
White		0.03		0.06	1	UPWL	UPWL
Blue		0.03		0.06	1	UPBL	UPBL
Yellow		0.03		0.06	1	UPYL	UPYL

Dimensions in Millimeters

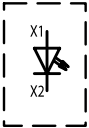


Rail Mounted Contacts



Panel Mounted Contacts

Wiring Diagram



Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Accessories : 1-Pole Contact Block

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Features

- ATEX and IECEx certified.
- TS35 rail mounted.
- Panel mounted.
- High performance contact block suitable for low intensity (less than 5mA).
- Rated operating voltage (Ue): 500 Vac — 110 Vdc
- Switching capacity:
 - AC12: 16 Amp/400 Vac
 - AC14: 10 Amp/400 Vac
 - AC15: 6 Amp/500 Vac
 - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
- Terminal connection: 2.5 mm²
- Operational life: 100,000 hours.

Standard Materials

- Body: polyamide
- Contact: silver alloy

Certifications and Compliances

◆ ATEX/ IECEx Certification

• Certification Type CVe

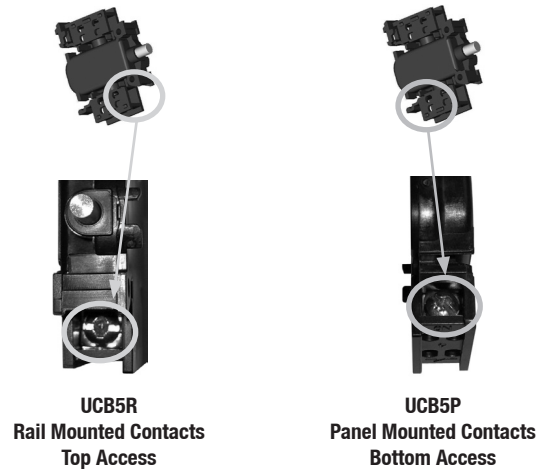
- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex e IIC
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tD A21
- Surface Temperature: -40 °C to +75 °C
- CE Declaration of Conformity: 5C243
- ATEX Certificate: LCIE 09 ATEX 3001U
- IECEx Certificate: IECEx LCI 09.0002U

◆ EURASEC Certification

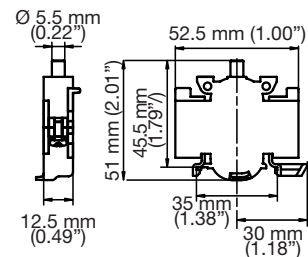
- EURASEC RU C-FR. ГБ 05.B00909

◆ Others Certification ①

- INMETRO Certificate: BVC 10.0047-U



Dimensions in Millimeters



Wiring Diagram



				Catalog Number	
Weight kg	Volume dm³	Pack		Rail Mounted	Panel Mounted
1-Pole Contact Blocks					
1 x NO	0.032	0.06	1	UCB5R	UCB5P
1 x NC	0.032	0.06	1	UCB9R	UCB9P

① Inmetro certification available on special request only. Contact your local sales for more information.

Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Accessories : 16 Amp Switches

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Features

- 2, 3, 4, 6 or 8-pole switches
 - TS35 rail mounted.
 - Panel mounted.
 - Padlockable.
 - Can be equipped with switch and changeover switch contact blocks.
- Switching capacity:
 - AC 1, 16 Amp, 690 Vac
 - AC 3, 8 Amp, 500 Vac
 - AC 3, 4 Amp, 690 Vac
 - AC 15, 16 Amp, 415 Vac
 - DC 1, 10 Amp, 24 Vdc
 - DC 1, 6 Amp, 60 Vdc
 - DC 1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC 1: 6 Amp/220 Vdc (3 contacts in series)
- Terminal connection: 1.5 mm² - 2.5 mm² (stranded), 1.5 mm² - 4 mm² (solid)
- Operational life: 10,000 cycles.

Standard Materials

- Body: polyamide
- Contact: silver

Certifications and Compliances ①

◆ ATEX/ IECEx Certification

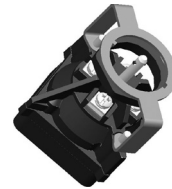
- **Certification Type SW16 (Switches)**
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex db eb IIC
 - Dust: Zone 21 and 22
 - Must be used in an approved dustproof enclosure
 - Operating Temperature: -55 °C to +80 °C
 - CE Declaration of Conformity: 5C249
 - ATEX Certificate: LCIE 12 ATEX 3068U
 - IEC Certificate: IECEx LCIE 12.0021U
- **Certification Type AUXe (Handles) ②**
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex e II
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tD A21
 - IP66 IK10
 - Ambient Temperature: -20 °C to +55 °C
 - CE Declaration of Conformity: 5C221
 - ATEX Certificate: LCIE 03 ATEX 0012U

◆ EURASEC Certification

- **Certification Type SW16 (Switches)**
 - EURASEC RU C-FR. Г5 05.B00909



US30R
(rail mounted switch)



US30P
(panel mounted switch)



USH ②
(switch handle)

① These products are certified only when used as components in factory assembled panels.

② USH handle is ATEX certified it is not for use in IECEx explosive atmospheres.

Unicode® 2 Series Accessories : 16 Amp Switches

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

		Diagram Number	Wiring Diagram	Catalog Number	
				Rail Mounted	Panel Mounted
Two Pole Selector Switches (handle to be ordered separately)					
2 position 2-pole selector switch	002		US16220002R (old p/n: US32R)	US16220002P (old p/n: US32P)	
2 position 2-pole selector switch	016		US16220016R (old p/n: US30R)	US16220016P (old p/n: US30P)	
3 position 2-pole selector switch	027		US16230027R (old p/n: US31R)	US16230027P (old p/n: US31P)	
3 position 2-pole selector switch with spring return from 135° to 90°	038		US16230038R (old p/n: US33R)	US16230038P (old p/n: US33P)	
3 position 2-pole selector switch with spring return from 45° to 90°	048		US16230048R (old p/n: US34R)	US16230048P (old p/n: US34P)	
Three or Four Pole Selector Switches (handle to be ordered separately)					
2 position 4-pole selector switch	102		US16420102R (old p/n: US35R)	US16420102P (old p/n: US35P)	
3 position 4-pole selector switch	119		US16430119R (old p/n: US36R)	US16430119P (old p/n: US36P)	
2 position 4-pole selector switch	106		US16420106R (old p/n: US37R)	US16420106P (old p/n: US37P)	
3 position 3-pole — Late break, early make selector switch with spring return from 45° to 90°	138		US16330138R (old p/n: US38R)	US16330138P (old p/n: US38P)	
Padlockable handle for all selector switches				USH ①	

① USH handle is ATEX Certified, it is not for use in IECEx explosive atmospheres.

Shaded catalog numbers are normally stocked items. All other items are made to order.

Unicode® 2 Series Accessories : 16 Amp Switches

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Switch Units - Add P for Panel Mounted or R for DIN Rail Mounted - Example US1612-0056R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
1-pole 2 position			
	US16120056_		US16120061_
2-pole 2 position			
	US16220002_		US16220015_
	US16220003_		US16220016_
	US16220004_		US16220017_
	US16220005_		US16220018_
	US16220007_		US16220019_
	US16220008_		US16220020_
	US16220009_		US16220021_
	US16220010_		US16220043_
	US16220011_		US16220045_
	US16220012_		US16220053_
	US16220013_		US16220073_
	US16220014_		US16220074_
2-pole 3 position			
	US16230022_		US16230025_
	US16230023_		US16230026_
	US16230024_		US16230027_

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Accessories : 16 Amp Switches

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Switch Units - Add P for Panel Monted or R for DIN Rail Monted - Example US1612-0056R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
2-pole 3 position			
	US16230028_		US16230050_
	US16230029_		US16230051_
	US16230030_		US16230052_
	US16230031_		US16230054_
	US16230032_		US16230055_
	US16230038_		US16230059_
	US16230039_		US16230068_
	US16230040_		US16230070_
	US16230041_		US16230071_
	US16230042_		US16230072_
	US16230046_		US16230075_
	US16230047_		US16230076_
	US16230048_		US16230087_
	US16230049_		US16239002_

Unicode® 2 Series Accessories : 16 Amp Switches

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Switch Units - Add P for Panel Mounted or R for DIN Rail Mounted - Example US1612-0056R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
2-pole 4 position			
	US16240044_		US16240062_
	US16240057_		US16240065_
	US16240058_		US16240084_
2-pole 8 position			
	US16280036_	—	—
3-pole 2 position			
	US16320122_		US16321153_
3-pole 3 position			
	US1633136_		US16331112_
	US16330138_		US16331120_
	US16330144_		US16331142_
	US16330145_		US16331155_
	US16330161_		US16331171_
	US16330167_		US16331202_
	US16330199_		US16331209_
	US16331109_		US16331210_

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Accessories : 16 Amp Switches

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Switch Units - Add P for Panel Mounted or R for DIN Rail Mounted - Example US1612-0056R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
3-pole 3 position			
	US16331230_	—	—
3-pole 4 position			
	US16340146_		US16340183_
	US16340168_		US16341119_
	US16340178_		US16341145_
	US16340181_		US16341151_
4-pole 2 position			
	US16420102_		US16420137_
	US16420103_		US16420152_
	US16420104_		US16420154_
	US16420105_		US16420173_
	US16420106_		US16421105_
	US16420107_		US16421122_
	US16420116_		US16421147_
	US16420134_		US16421162_
	US16420135_		US16421234_
4-pole 3 position			
	US16430111_		US16430113_
	US16430112_		US16430114_

Unicode® 2 Series Accessories : 16 Amp Switches

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Switch Units - Add P for Panel Monted or R for DIN Rail Monted - Example US1612-0056R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
4-pole 3 position			
	US16430118_		US16430169_
	US16430119_		US16430170_
	US16430120_		US16430175_
	US16430121_		US16430176_
	US16430127_		US16430180_
	US16430129_		US16431103_
	US16430131_		US16431104_
	US16430132_		US16431106_
	US16430133_		US16431108_
	US16430139_		US16431111_
	US16430140_		US16431113_
	US16430153_		US16431116_
	US16430157_		US16431125_
	US16430158_		US16431129_
	US16430159_		US16431134_
	US16430160_		US16431138_
	US16430162_		US16431159_

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

400



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Unicode® 2 Series Accessories : 16 Amp Switches

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Switch Units - Add P for Panel Monted or R for DIN Rail Monted - Example US1612-0056R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
4-pole 3 position			
	US16431165_		US16431206_
	US16431166_		US16431208_
	US16431167_		US16431213_
	US16431172_		US16431215_
	US16431173_		US16431217_
	US16431174_		US16431220_
	US16431176_		US16431222_
	US16431178_		US16431225_
	US16431179_		US16431226_
	US16431201_		US16431232_
	US16431203_		US16439001_
4-pole 4 position			
	US16440110_		US16440147
	US16440123_		US16440148_
	US16440130_		US16440150_
	US16440143_		US16440151_

Unicode® 2 Series Accessories : 16 Amp Switches

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Switch Units - Add P for Panel Mounted or R for DIN Rail Mounted - Example US1612-0056R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
4-pole 4 position			
	US16440155_		US16441128_
	US16440156_		US16441132_
	US16440164_		US16441133_
	US16440171_		US16441136_
	US16440198_		US16441139_
	US16440608_		US16441143_
	US16440611_		US16441144_
	US16440614_		US16441146_
	US16441102_		US16441154_
	US16441114_		US16441156_
	US16441115_		US16441163_
	US16441124_		US16441164_
	US16441127_		US16441168_

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Unicode® 2 Series Accessories : 16 Amp Switches

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Switch Units - Add P for Panel Mounted or R for DIN Rail Mounted - Example US1612-0056R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
4-pole 4 position			
	US16441169_		US16441211_
	US16441180_		US16441212_
	US16441204_		US16441219_
	US16441205_		US16441224_
	US16441207_		US16441229_
4-pole 5 position			
	US16451110_		US16451235_

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

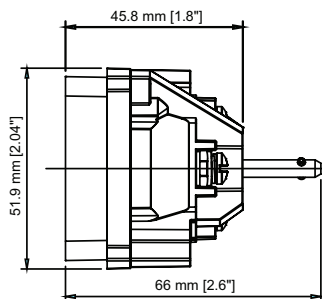
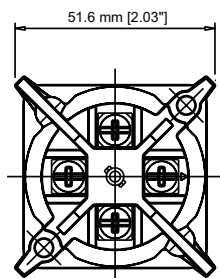
Unicode® 2 Series Accessories : 16 Amp Switches

Components for Increased Safety Enclosures

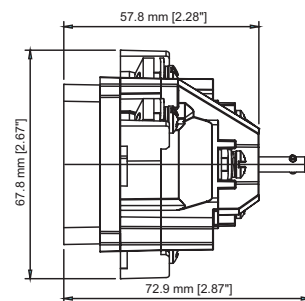
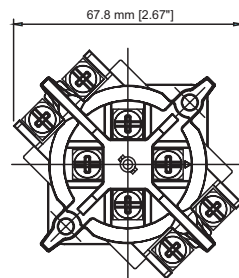
Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Dimensions in Millimeters

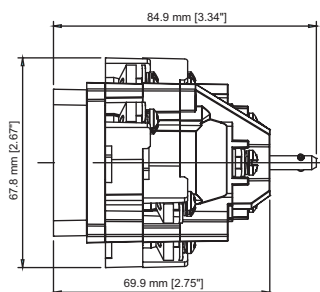
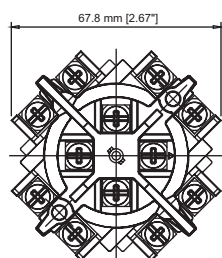
16 Amp Switches



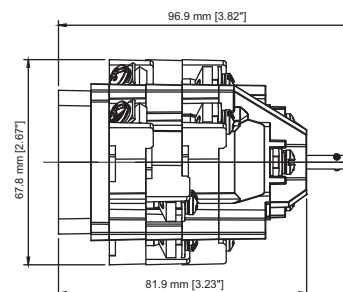
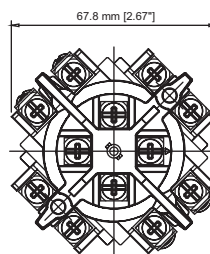
2-pole



3- and 4-pole

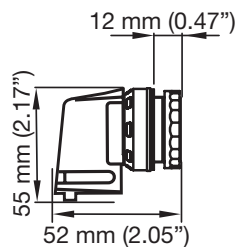


6-pole



8-pole

USH Handle ①



① USH handle is ATEX Certified, it is not for use in IECEx explosive atmospheres.

Unicode® 2 Series Accessories

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Nameplates — Set of 10

Blank self-adhesive, laminated plastic 58 mm x 18 mm.

Color	Catalog Number
White (black letters)	UNPW
Yellow (black letters)	UNPY
Red (white letters)	UNPR
Blue (white letters)	UNPB
Black (white letters)	UNPN
Green (white letters)	UNPG

Inserts for Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UIAG
(unmarked)	Red	UIAR
(unmarked)	Yellow	UIAY
(unmarked)	White	UIAW
(unmarked)	Blue	UIAB
(unmarked)	Black	UIAN
ON	Green	UIA01
OFF	Red	UIA02
START	Green	UIA03
STOP	Red	UIA04
MARCHE	Green	UIA05
ARRET	Red	UIA06
I	Green	UIA07
O	Red	UIA08

Inserts for Illuminated Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UILG
(unmarked)	Red	UILR
(unmarked)	Yellow	UILY
(unmarked)	White	UILW
(unmarked)	Blue	UILB
ON	Green	UIL01
OFF	Red	UIL02
START	Green	UIL03
STOP	Red	UIL04
MARCHE	Green	UIL05
ARRET	Red	UIL06
I	Green	UIL07
O	Red	UIL08

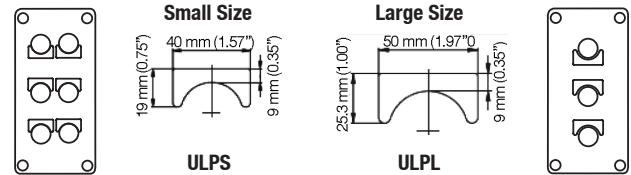
Spare Key

For all key-operated buttons.

Description	Catalog Number
Spare key type 4 A 185	SK4A185

Standard Legend Plates

Two sizes available. Self-adhesive yellow laminated plastic (black lettering).

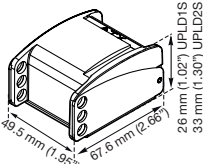


Text	Catalog Number	
	Small	Large
Blank (set of 10)	ULPS	ULPL
ON	ULPSA01	ULPLA01
OFF	ULPSA02	ULPLA02
FORWARD	ULPSA03	ULPLA03
REVERSE	ULPSA04	ULPLA04
JOG	ULPSA05	ULPLA05
RUN	ULPSA06	ULPLA06
START	ULPSA07	ULPLA07
STOP	ULPSA08	ULPLA08
UP	ULPSA09	ULPLA09
DOWN	ULPSA10	ULPLA10
FAST	ULPSA11	ULPLA11
SLOW	ULPSA12	ULPLA12
RAISE	ULPSA13	ULPLA13
LOWER	ULPSA14	ULPLA14
OPEN	ULPSA15	ULPLA15
CLOSE	ULPSA16	ULPLA16
LOW	ULPSA17	ULPLA17
HIGH	ULPSA18	ULPLA18
TEST	ULPSA19	ULPLA19
RESET	ULPSA20	ULPLA20
EMERGENCY STOP	ULPSA21	ULPLA21
MARCHE	ULPSA22	ULPLA22
ARRET	ULPSA23	ULPLA23
ARRET D'URGENCE	ULPSA24	ULPLA24
HAUT	ULPSA25	ULPLA25
BAS	ULPSA26	ULPLA26
O—I	ULPSH01	ULPLH01
ON—OFF	ULPSH02	ULPLH02
START—STOP	ULPSH03	ULPLH03
STOP—START	ULPSH04	ULPLH04
HAND—AUTO	ULPSH05	ULPLH05
MANU—AUTO	ULPSH06	ULPLH06
FORWARD—REVERSE	ULPSH07	ULPLH07
REMOTE—LOCAL	ULPSH08	ULPLH08
MARCHE—ARRET	ULPSH09	ULPLH09
I—O—II	ULPSJ01	ULPLJ01
OFF—O—ON	ULPSJ02	ULPLJ02
START—NORMAL—STOP	ULPSJ03	ULPLJ03
HAND—OFF—AUTO	ULPSJ04	ULPLJ04
MANU—O—AUTO	ULPSJ05	ULPLJ05
FORWARD—OFF—REVERSE	ULPSJ06	ULPLJ06
LOCAL—REMOTE—AUTO	ULPSJ07	ULPLJ07
LOCAL—O—REMOTE	ULPSJ08	ULPLJ08
MARCHE—NORMAL—ARRET	ULPSJ09	ULPLJ09

Unicode® 2 Series Accessories

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

	Description	Catalog Number
	Yellow Guard Mushroom head protection for emergency stop	098657
	Padlockable Guard Stainless steel and plastic cover, capacity: 3 padlocks, 6 mm maximum diameter (not supplied)	
	For push button and rotary actuator 	UPLD1S
	For mushroom head actuator 	UPLD2S
	Cover Blanking Plug For cover drilling — 30.5 mm diameter	UBP
	Device Adaptor Rail to panel mounted conversion adaptor	UPMA

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Shaded catalog numbers are normally stocked items. All other items are made to order.

V Series AC Ammeter

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Suitable for use with certified Ex e enclosures for control equipment in industrial processes.

Features

- DIN rail mounted (TS35) and panel mounted versions.

Technical Data

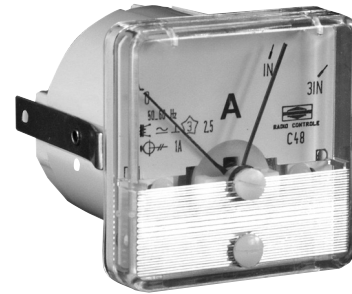
- Rated Voltage: 500 V
- Frequency: 25 to 100 Hz
- Consumption: 0.7 VA
- Permanent overload: 1.2 In
- Instantaneous overload: 10 In/5s
- Terminal connections: M5 Terminals for lugs

Certifications and Compliances

◆ ATEX Certification

• Certification Type C48D

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ex II 2 G
 - Type of Protection: Ex em II
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ex
 - Type of Protection: Authorized to be used with an approved dustproof Enclosure
- Service Temperature: -25 °C to +55 °C
- Declaration of Conformity: 5C215
- ATEX Certificate: LCIE 02 ATEX 0006U



AC Ammeter

AC Ammeter — 48 mm x 48 mm

Connection on current transformer — Deflection 90° — Red adjustable index — Accuracy class 1.5 — Round barrel

Description			Weight kg	Volume dm ³	Catalog Number
Rail Mounted					
1A C.T. 3 x F.L.C.	with 0-1-3 Scale		0.1	0.4	VA1348R
1A C.T. 5 x F.L.C.	with 0-1-5 Scale		0.1	0.4	VA1548R
1A C.T. 6 x F.L.C.	with 0-1-6 Scale		0.1	0.4	VA1648R
5A C.T. 3 x F.L.C.	with 0-1-3 Scale		0.1	0.4	VA5348R
5A C.T. 5 x F.L.C.	with 0-1-5 Scale		0.1	0.4	VA5548R
5A C.T. 6 x F.L.C.	with 0-1-6 Scale		0.1	0.4	VA5648R
Panel Mounted					
1A C.T. 3 x F.L.C.	with 0-1-3 Scale		0.1	0.4	VA1348P
1A C.T. 5 x F.L.C.	with 0-1-5 Scale		0.1	0.4	VA1548P
1A C.T. 6 x F.L.C.	with 0-1-6 Scale		0.1	0.4	VA1648P
5A C.T. 3 x F.L.C.	with 0-1-3 Scale		0.1	0.4	VA5348P
5A C.T. 5 x F.L.C.	with 0-1-5 Scale		0.1	0.4	VA5548P
5A C.T. 6 x F.L.C.	with 0-1-6 Scale		0.1	0.4	VA5648P
Window for Ammeter 48 mm x 48 mm					
			0.1	0.4	VAW48
Shaded catalog numbers are normally stocked items. All other items are made to order.					

V Series AC Ammeter

Components for Increased Safety Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Interchangeable Dials for V Series AC Ammeter

Scale					Catalog Number	
1 A Current Transformer 3 x F.L.C.						
0	-	5	-	15	A	DA135
0	-	10	-	30	A	DA1310
0	-	15	-	45	A	DA1315
0	-	20	-	60	A	DA1320
0	-	30	-	90	A	DA1330
0	-	40	-	120	A	DA1340
0	-	50	-	150	A	DA1350
0	-	60	-	180	A	DA1360
0	-	75	-	225	A	DA1375
0	-	100	-	300	A	DA13100
0	-	125	-	375	A	DA13125
0	-	150	-	450	A	DA13150
0	-	200	-	600	A	DA13200
0	-	250	-	750	A	DA13250

1 A Current Transformer 5 x F.L.C.					
0	-	5	-	25	A DA155
0	-	10	-	50	A DA1510
0	-	15	-	75	A DA1515
0	-	20	-	100	A DA1520
0	-	30	-	150	A DA1530
0	-	40	-	200	A DA1540
0	-	50	-	250	A DA1550
0	-	60	-	300	A DA1560
0	-	75	-	375	A DA1575
0	-	100	-	500	A DA15100
0	-	125	-	625	A DA15125
0	-	150	-	750	A DA15150
0	-	200	-	1000	A DA15200
0	-	250	-	1250	A DA15250

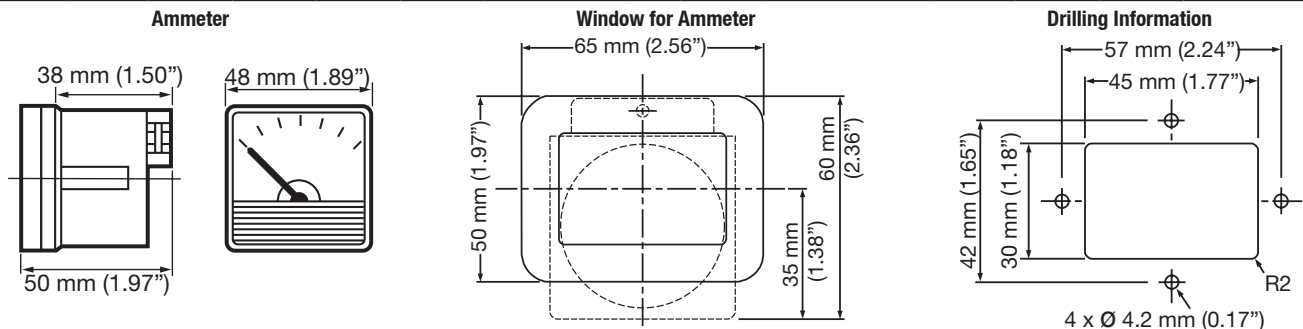
1 A Current Transformer 6 x F.L.C.					
0	-	5	-	30	A DA165
0	-	10	-	60	A DA1610
0	-	15	-	90	A DA1615
0	-	20	-	120	A DA1620
0	-	30	-	180	A DA1630
0	-	40	-	240	A DA1640
0	-	50	-	300	A DA1650
0	-	60	-	360	A DA1660
0	-	75	-	450	A DA1675
0	-	100	-	600	A DA16100
0	-	125	-	750	A DA16125
0	-	150	-	900	A DA16150
0	-	200	-	1200	A DA16200
0	-	250	-	1500	A DA16250

Scale					Catalog Number	
5 A Current Transformer 3 x F.L.C.						
0	-	5	-	15	A	DA535
0	-	10	-	30	A	DA5310
0	-	15	-	45	A	DA5315
0	-	20	-	60	A	DA5320
0	-	30	-	90	A	DA5330
0	-	40	-	120	A	DA5340
0	-	50	-	150	A	DA5350
0	-	60	-	180	A	DA5360
0	-	75	-	225	A	DA5375
0	-	100	-	300	A	DA53100
0	-	125	-	375	A	DA53125
0	-	150	-	450	A	DA53150
0	-	200	-	600	A	DA53200
0	-	250	-	750	A	DA53250

5 A Current Transformer 5 x F.L.C.					
0	-	5	-	25	A DA555
0	-	10	-	50	A DA5510
0	-	15	-	75	A DA5515
0	-	20	-	100	A DA5520
0	-	30	-	150	A DA5530
0	-	40	-	200	A DA5540
0	-	50	-	250	A DA5550
0	-	60	-	300	A DA5560
0	-	75	-	375	A DA5575
0	-	100	-	500	A DA55100
0	-	125	-	625	A DA55125
0	-	150	-	750	A DA55150
0	-	200	-	1000	A DA55200
0	-	250	-	1250	A DA55250

5 A Current Transformer 6 x F.L.C.					
0	-	5	-	30	A DA565
0	-	10	-	60	A DA5610
0	-	15	-	90	A DA5615
0	-	20	-	120	A DA5620
0	-	30	-	180	A DA5630
0	-	40	-	240	A DA5640
0	-	50	-	300	A DA5650
0	-	60	-	360	A DA5660
0	-	75	-	450	A DA5675
0	-	100	-	600	A DA56100
0	-	125	-	750	A DA56125
0	-	150	-	900	A DA56150
0	-	200	-	1200	A DA56200
0	-	250	-	1500	A DA56250

Dimensions in Millimeters and Drilling Information



FU40 Series Fuse Carrier

Components for Increased Safety Enclosures

Zone 1 and 2
Gas (G)

Applications

- Useful as back-up fuse protection or as main fuse protection for hazardous locations.
- Shall be used in an increased safety Ex e or in a flameproof Exd enclosure.

Features

- For 14 mm x 51 mm cylindrical cartridge fuse 40A max (classes gG and aM).
- Un: 690V max.
- Adaptor which clips onto EN 50 022 and EN 50 035 rail.
- Connection capacities from 2.5 mm² to 16 mm² for rigid or flexible cables.

Standard Material

- Polyamide

Certifications and Compliances

◆ ATEX/IECEX Certification

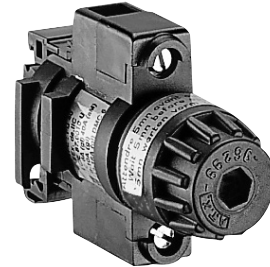
• Certification Type FU40

- Gas, Zones 1 and 2
- Conforming to ATEX 94/9/CE: Ⓔ II 2 G
- Type of Protection: Ex db eb IIC or Ex d e IIC Gb
- Service Temperature: -40 °C to +80 °C
- CE Declaration of Conformity: 5C258
- ATEX Certificate: LCIE 15 ATEX 3014U
- IECEx Certificate: IECEx LCIE 15.0007U

◆ Others Certification ①

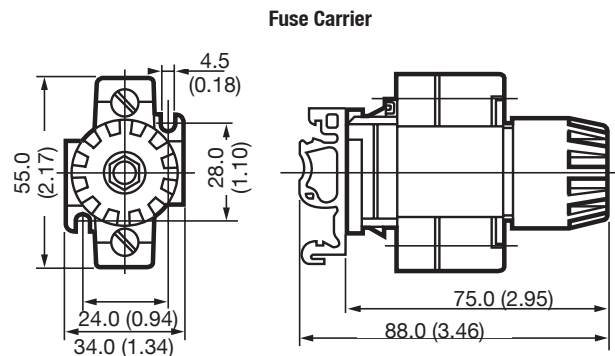
• Certification Type FU40

- INMETRO Certificate: BVC 11.0593-U



Weight kg	Volume dm ³	Fuse Size mm	In max.	Un max.	Catalog Number
0.1	0.4	14 x 51	40A	690V	FU40

Dimensions in Millimeters



① Inmetro certification available on special request only. Contact your local sales for more information.

Shaded catalog numbers are normally stocked items. All other items are made to order.

TRE Series Ex e Transformers

Increased Safety

Zone 1 and 2
Gas (G)

Applications

- Equipment transformers are useful where the available voltage must be changed to accommodate the voltage required by the load and safety voltage.
- Suitable for use in certified increased safety enclosures and OEM increased safety applications.
- Requires primary and secondary protection by fuses or Branch Circuit Breaker.

Features

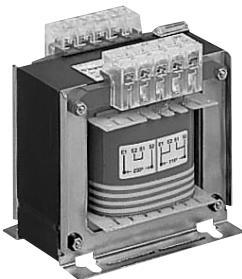
- Single phase 50/60 Hz.
- Class I.
- Primary voltages are with tolerance +/- 15V.
- Circuit insulation voltage between:
 - 4500 V between windings.
 - 2300 V between primary winding and earth.
 - 1800 V between secondary winding and earth.
- Ex e Terminals capacity 4 mm².

Standard Materials

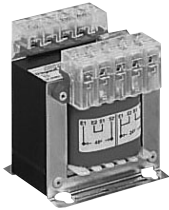
- Copper windings
- Insulation Class F

Certifications and Compliances

- ◆ ATEX/IECEx Certification
- Certification Type TRE
 - Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex eb IIC
 - Service Temperature: -20 °C to +90 °C
 - CE Declaration of Conformity: 5C259
 - ATEX Certificate: LCIE 15 ATEX 3042U
 - IECEx Certificate : IECEx LCIE 15.0034U



400 VA



100 VA

Catalog Numbering Guide

TRE
|
Series
TRE - ATEX/IECEx Certified
Transformer

100
|

Power:
100 - 100 VA
160 - 160 VA
250 - 250 VA
400 - 400 VA

A
|
Primary Voltage:
A - 230/400 V
B - 240/415 V

2
|

Secondary Voltage:
2 - 24/48 V
3 - 2 x 110 V

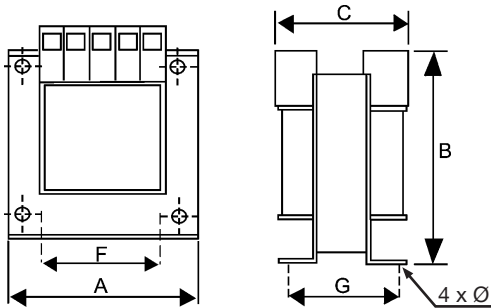
TRE Series Ex e Transformers

Increased Safety

Zone 1 and 2
Gas (G)

Primary	Secondary	Power	Weight kg	Volume dm ³	Certified Type	Catalog Number
230/400 V	24/48 V	100 VA	2.7	4	TRE	TRE100A2
		160 VA	4.9	4	TRE	TRE160A2
		250 VA	5.4	7	TRE	TRE250A2
		400 VA	6.9	7	TRE	TRE400A2
	2x110 V	100 VA	2.7	4	TRE	TRE100A3
		160 VA	4.9	4	TRE	TRE160A3
		250 VA	5.4	7	TRE	TRE250A3
		400 VA	6.9	7	TRE	TRE400A3
240/415 V	24/48 V	100 VA	2.7	4	TRE	TRE100B2
		160 VA	4.9	4	TRE	TRE160B2
		250 VA	5.4	7	TRE	TRE250B2
		400 VA	6.9	7	TRE	TRE400B2

Dimensions in Millimeters

				Power	A	B	C	F	Fixing G	Ø	Weight kg
				100 VA	94	91	91	64	66	4.8	1.8
				160 VA	96	102	96	84	78	5.8	3.2
				150 VA	108	110	100	84	82	5.8	4.4
				400 VA	126	126	115	90	99	6.5	6.0

Overcurrent Protection

		Primary Overcurrent Protection						Secondary Overcurrent Protection					
Power	Power Loss	Fuses		MCB Curve C		MCB Curve D		Fuses			MCB Curve C		
		230/240 V	400/415 V	230/240 V	400/415 V	230/240 V	400/415 V	24 V	48 V	110 V	24 V	48 V	110 V
100 VA	6 W	1A aM	1A aM	3 A	1 A	2 A	1 A	4 A gG	2 A gG	1 A gG	4 A	2 A	1 A
160 VA	10 W	2A aM	1A aM	6 A	2 A	2 A	1 A	8 A gG	4 A gG	1 A gG	6 A	4 A	2 A
250 VA	15 W	2A aM	2A aM	6 A	3 A	3 A	2 A	10 A gG	6 A gG	2 A gG	10 A	6 A	2 A
400 VA	25 W	4A aM	2A aM	10 A	6 A	6 A	2 A	16 A gG	8 A gG	4 A gG	16 A	4 A	4 A

Shaded catalog numbers are normally stocked items. All other items are made to order.

D Series Aluminum Control Stations

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Local control stations for use in hazardous areas.
- Control of electrical equipment at power plants, chemical and petrochemical plants, petroleum- refineries, pulp and paper processing plants and various industrial applications.

Features

- 1 and 2 Function Ex d IIC:
 - Supplied with actuators, contact blocks and pilot lights.
 - TS35 rail mounted contact blocks.
 - Threaded flameproof joint.
 - Connection: 2 x 2.5 mm² maximum.
 - Internal earth: 2 x 4 mm².
 - External ground: M5
 - 1 x M20 or M25 threaded entry at bottom.
 - Cable glands and plugs to be ordered separately.
- 2 and 3 Function Exd IIB:
 - Supplied with actuators and rail mounting pilot lights and contact blocks.
 - Flanged flameproof joint.
 - Yellow laminated plastic legend plate with black lettering.
 - Connection : 2 x 2.5 mm² maximum.
 - Internal earth: 2 x 4 mm² .
 - External earth: M6 screw.
 - 2 x M20 threaded entries at the bottom.
 - Cable glands and plugs to be ordered separately.

Standard Materials

- Box: gray painted marine grade aluminum alloy

Options

- For other configurations, see pre-drilled control stations or consult factory.

Certifications and Compliances

◆ATEX Certification

- **Certification Type BR1d**
 - Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓜ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6 for Ta = +40 °C, T5 for Ta = +55 °C
- Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓜ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C
- Ambient Temperature: -40 °C to +55 °C
- CE Declaration of Conformity: 20530
- ATEX Certificate: LCIE 02 ATEX 6056
- **Certification Type CF2D**
 - Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓜ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature class: T6 for Ta ≤ +40 °C, T5 for +40 °C < Ta ≤ +55 °C

- Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓜ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C
 - Ambient Temperature: -40 °C to +55 °C
 - CE Declaration of Conformity: 50254
 - ATEX Certificate: LCIE 03 ATEX 6061X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
 - Internal Volume: ≤ 2 dm³ (2 liters)

◆EURASEC Certification

- EURASEC RU C-FR. ГБ 05.B.00911

◆Others Certification ①

- INMETRO Certificate: BVC 11.0482

1 Function



2 Function



2 Function



3 Function



① Inmetro certification available on special request only. Contact your local sales for more information.

D Series Aluminum Control Stations

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Type	Description/Function	Bottom Entries	Weight kg	Volume dm³	Catalog Number	
1 Function Ex d IIC Control Stations						
Spring Return Push Button						
	BR1d	1x black spring return push button with 1NO + 1NC momentary contacts	1 x M20	1.0	3.75	DA1W1T101
	BR1d	1x black spring return push button with 1NO + 1NC momentary contacts	1 x M25	1.0	3.75	DA1W3T101
Mushroom Head Push Button						
	BR1d	1x red mushroom head push-pull with 1NO + 1NC maintained contacts Padlockable in both positions	1 x M20	1.2	3.75	DA1W1T102
	BR1d	1x red mushroom head push-pull with 1NO + 1NC maintained contacts Padlockable in both positions	1 x M25	1.2	3.75	DA1W3T102
	BR1d	Red mushroom head key release with 1NO + 1NC maintained contact Unlocked with key (MS1)	1 x M20	1.2	3.75	DA1W1T104
	BR1d	Red mushroom head key release with 1NO + 1NC maintained contact Unlocked with key (MS1)	1 x M25	1.2	3.75	DA1W3T104
Time Delayed Push Button 230 V 50/60 Hz						
	BR1d	1x time delayed black impulse push button adjustable from 25s to 15mn For 1000 W incandescent or 400 W fluorescent max.	1 x M20	1.2	3.75	DA1W1T103
	BR1d	1x time delayed black impulse push button adjustable from 25 s to 15 mn For 1000 W incandescent or 400 W fluorescent max.	1 x M25	1.2	3.75	DA1W3T103
Twin Push Buttons						
	BR1d	1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	1 x M20	1.2	3.75	DA1W1T201
	BR1d	1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	1 x M25	1.2	3.75	DA1W3T201
2 Function Ex d IIB Control Stations						
Twin Push Buttons						
	CF2D	1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	2 x M20	2.5	7.00	DA4W2T201
	CF2D	1x green spring return 'I' push button with 1NO momentary contact 1x red mushroom head push-pull with 1NO+1NC maintained contacts	2 x M20	2.5	7.00	DA4W2T202

Controls

CONTROL STATIONS AND SWITCHES - FLAMEPROOF

D Series Aluminum Control Stations

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Type	Description/Function	Bottom Entries	Weight kg	Volume dm ³	Catalog Number
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3 Function Ex d IIB Control Stations

Pilot Light and Twin Push Buttons



CF2D	1x red/green LED light 85 to 264 Vac 1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	2 x M20	3.3	9.00	DA5W2T301
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Ammeter and Twin Push Buttons

CF2D	1x ammeter 48 x 48 CT1A 3 x FLC 0-1-3A 1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	2 x M20	3.3	9.00	DA5W2T302
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Ex d IIC Limit Switch ①

Limit Switch

Stainless steel roller control perpendicular for surface fixing. 1/4 turn fixing (may be modified by end user).



BR1d	1x roller plunger - travel 7 mm max. - Force 22 newtons with 1NO+1NC momentary contacts	1 x M20	1.0	4.60	DA1W1L001
BR1d	1x roller plunger - travel 7 mm max. - Force 22 newtons with 1NO+1NC momentary contacts	1 x M25	1.0	4.60	DA1W3L001

Technical Data

Contact Block		LED Pilot Light	
Insulation Voltage (Ui)	500 V	Rated Voltage	85 Vac to 264 Vac, 50/60 Hz
Switching Capacity		Rating	5-15 mA
AC 15	4 A/115 V, 4 A/230 V, 2 A/500 V	Max. Power	0.33 W
DC 13	3 A/24 V, 1.7 A/42 V, 1.2 A/60 V, 0.8 A/110 V, 0.3 A/220 V	Operation life	Average 100,000 Hours at +25 °C
Terminal connections	0.75 to 2.5 mm ²		
Operation life	>5,000,000 Operations		
Light Switch			
Insulation Voltage (Ui)	500 V		
Switching Capacity			
AC 15	450 W/48 V, 900 W/110 V, 1900 W/230 V		
DC 13	100 W/48 V, 100 W/110 V, 95 W/230 V		
Terminal connections	0.75 to 2.5 mm ²		
Operation life	> 1,000,000 Operations		

D Series Aluminum Control Stations

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Electrical Diagrams

NO Contact Block



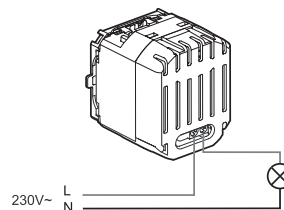
NC Contact Block



LED Pilot Light

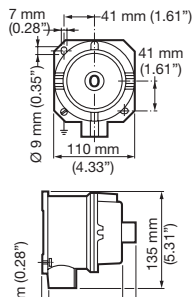


Time Delayed Push Button

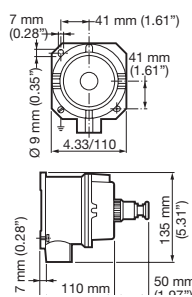


Dimensions in Millimeters

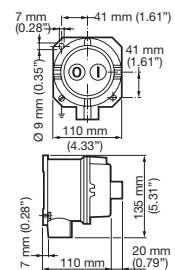
1 Function



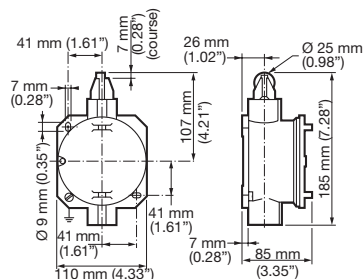
1 Function Emergency Stop



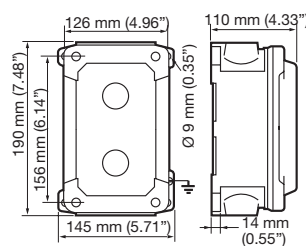
2 Functions



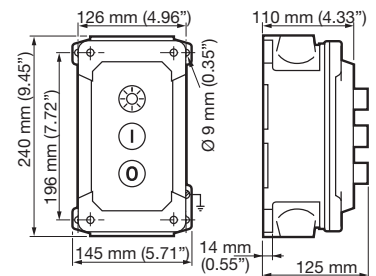
Limit Switch



2 Functions



3 Functions



D Series Pre-Drilled Control Stations

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Local control stations for use in hazardous areas.
- Control of equipment at power plants, chemical and petrochemical plants, petroleum refineries, pulp and paper processing plants and various industrial applications.

Features

- 1 and 2 Function Ex d IIC:
 - For TS35 rail mounted contact block.
 - Actuators and contact blocks to be ordered separately.
 - Up to 3 contacts per function.
 - Threaded flameproof joint.
 - Internal earth terminal 2 x 4 mm².
 - External ground terminal: M5.
 - 1 x M20 or M25 threaded entry at bottom.
 - Cable glands and plugs to be ordered separately.
- 2 to 6 Function Ex d IIB:
 - For TS35 rail mounted contact block.
 - Actuators and contact blocks to be ordered separately.
 - Up to 3 contacts per function.
 - Flanged flameproof joint.
 - Yellow laminated plastic legend plate with black lettering.
 - Internal earth terminal: 2 x 4 mm².
 - External earth terminal: M6 screw and M8 earth stud (CF2B type).
 - 2 x M20 threaded entries at the bottom.
 - Cable glands and plugs to be ordered separately.

Standard Materials

- Box: gray painted marine grade aluminum alloy
- CF2B box: gray painted cast iron for CF2B

Certifications and Compliances

◆ ATEX Certification

• Certification Type BR1d

- Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓜ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6 for Ta = +40 °C, T5 for Ta = +55 °C
- Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓜ II2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T95 °C
 - Ambient Temperature: -40 °C to +55 °C
 - Impact Resistance (shock): IK10
 - CE Declaration of Conformity: 20530
 - ATEX Certificate: LCIE 02 ATEX 6056
 - Index of Protection according EN/IEC 60529: IP66

• Certification Type CF2D

- Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓜ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature class: T6 for Ta = +40 °C, T5 for Ta = +55 °C
- Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓜ II2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T95 °C
 - Ambient Temperature: -40 °C to +55 °C
 - Impact Resistance (shock): IK10
 - CE Declaration of Conformity: 50254
 - ATEX Certificate: LCIE 03 ATEX 6061X
 - Index of Protection according EN/IEC 60529: IP66

1 Function



2 Function



2 Function



3 Function



6 Function



• Certification Type BR2d

- Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓜ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6
- Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓜ II2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T80 °C
 - Ambient Temperature: -40 °C to +55 °C
 - Impact Resistance (shock): IK09
 - CE Declaration of Conformity: 50256
 - ATEX Certificate: LCIE 03 ATEX 6062
 - Index of Protection according EN/IEC 60529: IP66

• Certification Type CF2B

- Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓜ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6 for Ta ≤ +40 °C, T5 for +40 °C < Ta ≤ +55 °C
- Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓜ II2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T95 °C
 - Ambient Temperature: -40 °C to +55 °C
 - Impact Resistance (shock): IK10
 - CE Declaration of Conformity: 50254
 - ATEX Certificate: LCIE 03 ATEX 6061X
 - Index of Protection according EN/IEC 60529: IP66
- Internal Volume: ≤2 dm³ (2 liters)

◆ EURASEC Certification

- EURASEC RU C-FR. 15 05.B.00911

◆ Others Certification ①

- INMETRO: BR 230482-Be1D

① Inmetro certification available on special request only. Contact your local sales for more information.

D Series Pre-Drilled Control Stations

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

For TS35 Rail Mounted Actuators

	Type	Description/Function	Bottom Entries	Weight kg	Volume dm ³	Catalog Number
1 Function Ex d IIC Control Stations:						
	BR1d	For push button, pilot light or selector switch	1 x M20	0.9	2	DA1W1E101
	BR1d	For push button, pilot light or selector switch	1 x M25	0.9	2	DA1W3E101
2 Function Ex d IIC Pre-drilled Box:						
	BR1d	For push button (non-mushroom type) 2 contacts maximum for each function	1 x M20	0.9	2	DA1W1E201
	BR1d	For push button (non-mushroom type) 2 contacts maximum for each function	1 x M25	0.9	2	DA1W3E201
2 Function Ex d IIB Pre-drilled Box:						
	CF2D	For push button, pilot light or selector switch	2 x M20	2.3	7	DA4W2E202
3 Function Ex d IIB Pre-drilled Box:						
	CF2D	For push button, pilot light or selector switch (2 switches maximum)	2 x M20	3	7	DA5W2E301
	CF2D	For push button, pilot light and ammeter 48 x 48 mm (ammeter with round barrel)	2 x M20	3	7	DA5W2E302
4 Function Ex d IIB Pre-drilled Box:						
	CF2D	For push button, pilot light and ammeter 48 x 48 mm (ammeter with round barrel)	2 x M20	3	7	DA5W2E401
6 Function Ex d IIB Pre-drilled Box:						
	CF2D	For push button and pilot light 2 Contacts maximum for each function	2 x M20	3	7	DA5W2E601
	CF2B	For push button, pilot light or selector switch (3 switches maximum)	2 x M20	13	13	DA3W2E601
1 Meter Ex d IIC Pre-drilled Box:						
	BR2d	For indicator 72 x 72 mm or 96 x 96 mm with round barrel Mounting plate for indicator diameter. 67 mm	2 x M20	4	11	DA2W2E102

Controls

CONTROL STATIONS AND SWITCHES - FLAMEPROOF

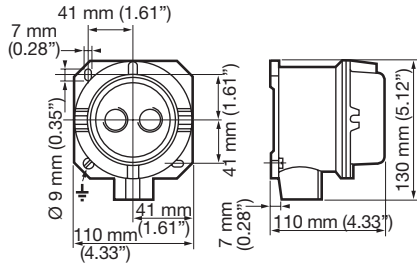
D Series Pre-Drilled Control Stations

Flameproof

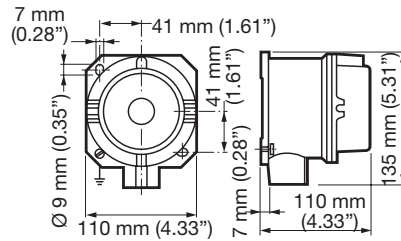
Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Dimensions in Millimeters for TS35 Rail Mounted Operators

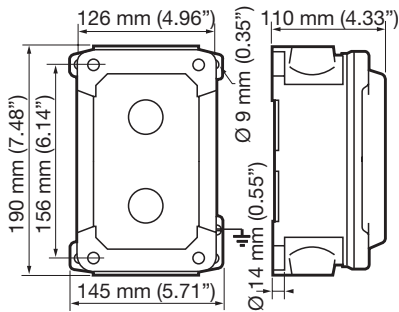
BR1d (1 Function)



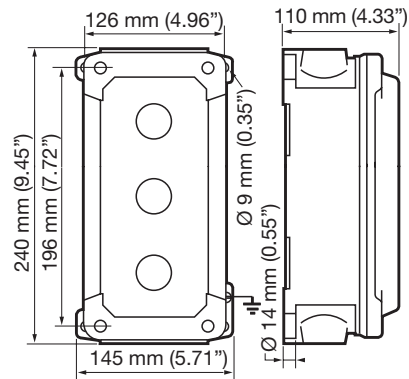
BR1d (2 Functions)



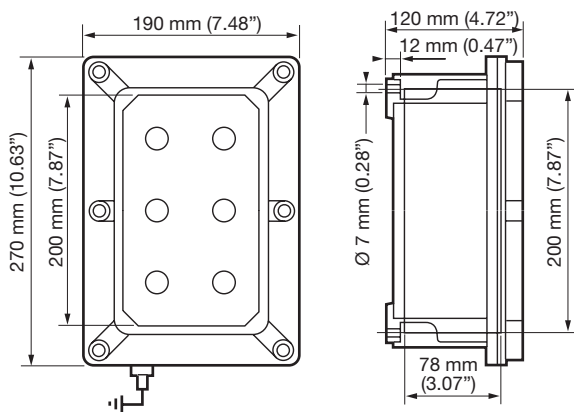
CF2D (2 Functions)



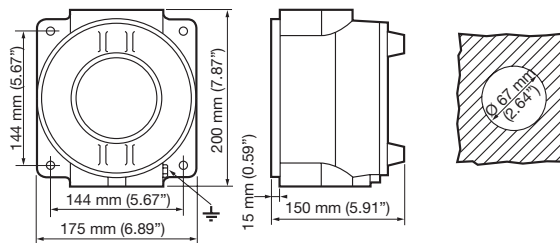
CF2D (3–4–6 Functions)



CF2B (6 Functions)



BR2d



D Series Actuators, Pilot Lights, Contact Blocks, Switches and Accessories

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Suitable for use with certified flameproof Ex d enclosures for control equipment.

Features

- DIN rail mounted (TS35) and panel mounted versions.
- Large range of M22 x 1.5 mm screwed actuator operators including, push buttons, rotary actuators, pilot lights, ammeters and selector switches.
- Fully supplied with actuator, shaft, contact block and yellow laminated plastic legend plate with black lettering 60 x 50 mm.

Standard Materials

- Box: gray painted marine grade aluminum alloy
- CF2B box: gray painted cast iron for CF2B

Certifications and Compliances

◆ ATEX Certification

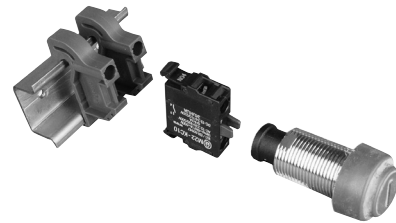
• Certification Type TCD

- Gas, Zones 1 and 2
- Conforming to ATEX 94/9/CE: Ⓔ II 2 G
- Type of Protection: Ex d IIC
- Dust, Zones 21 and 22
- Conforming to ATEX 94/9/CE: Ⓔ II 2 D
- Type of Protection: Ex tD A21
- Surface Temperature: -40 °C to +60 °C
- CE Declaration of Conformity: 5C213
- ATEX Certificate: LCIE 02 ATEX 0036 U
- IECEx Certificate: IECEx LCI 10.0022U
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

◆ EURASEC Certification

- EURASEC RU C-FR. ГБ 05.B.00909

Rail Mounted Version



Panel Mounted Version



D Series TS35 Rail Mounted Actuators and Contact Blocks

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Description/Function		Weight kg	Volume dm ³	Catalog Number ①
	Spring Return Push Button			
	Green spring return 'I' push button with 1NO momentary contact	0.2	0.4	DA5GR
	Red spring return 'O' push button with 1NC momentary contact	0.2	0.4	DA9RR
	Mushroom Head Push Button			
	Red mushroom head spring return with 1NC momentary contact Padlockable in both positions	0.2	0.4	DR9R
	Red mushroom head push pull with 1NC maintained contact Padlockable in both positions	0.2	0.4	DD9R
	Red mushroom head key release with 1NC maintained contact Unlocked with key (MS1)	0.2	0.4	DC9R
	Rotary Actuator			
	2 maintained positions with 1NO maintained contact	0.2	0.4	DH5R
	2 maintained positions key operated with 1NO maintained contact key removable in both positions (MS1)	0.2	0.4	DG5R
	Additional Contacts			
	1 x NO contact	0.1	0.2	DCB5R
	1 x NC contact	0.1	0.2	DCB9R
	LED Pilot Lights			
	Red 12 to 30 Vac/Vdc	0.1	0.4	DPR12R
	Green 12 to 30 Vac/Vdc	0.1	0.4	DPG12R
	White 12 to 30 Vac/Vdc	0.1	0.4	DPW12R
	Blue 12 to 30 Vac/Vdc	0.1	0.4	DPB12R
	Yellow 12 to 30 Vac/Vdc	0.1	0.4	DPY12R
	Red 48 to 60 Vac/Vdc	0.1	0.4	DPR48R
	Green 48 to 60 Vac/Vdc	0.1	0.4	DPG48R
	White 48 to 60 Vac/Vdc	0.1	0.4	DPW48R
	Blue 48 to 60 Vac/Vdc	0.1	0.4	DPB48R
	Yellow 48 to 60 Vac/Vdc	0.1	0.4	DPY48R
	Red 85 to 264 Vac	0.1	0.4	DPR85R
	Green 85 to 264 Vac	0.1	0.4	DPG85R
	White 85 to 264 Vac	0.1	0.4	DPW85R
	Blue 85 to 264 Vac	0.1	0.4	DPB85R
	Yellow 85 to 264 Vac	0.1	0.4	DPY85R
	Transfer Kit			
	To be used when replacing old range of contacts 094057 and 094058 and old range of indicators 093990-093991 and 094090-094091	0.2	0.4	093958
	16 A Switches			
	1-pole switch with non-padlockable handle "0-1"	0.3	0.5	DS116R
	2-pole switch with non-padlockable handle "0-1"	0.3	0.5	DS216R
	3-pole switch with non-padlockable handle "0-1"	0.3	0.5	DS316R
	4-pole switch with non-padlockable handle "0-1"	0.3	0.5	DS416R
	2 way 1-pole selector switch with non-padlockable handle "1-2"	0.3	0.5	DS21601R
	3 way 1-pole selector switch with non-padlockable handle "1-0-2"	0.3	0.5	DS21602R

① Legend Plate Supplied.

D Series Panel Mounted Actuators and Contacts Blocks

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

	Description/Function	Weight kg	Volume dm³	Catalog Number ①
	Spring Return Push Button			
	Green spring return 'I' push button with 1NO momentary contact	0.2	0.4	DA5GP
	Red spring return 'O' push button with 1NC momentary contact	0.2	0.4	DA9RP
	Mushroom Head Push Button			
	Red mushroom head spring return with 1NC momentary contact Padlockable in both positions	0.2	0.4	DR9P
	Red mushroom head push pull with 1NC maintained contact Padlockable in both positions	0.2	0.4	DD9P
	Red mushroom head key release with 1NC maintained contact Unlocked with key (MS1)	0.2	0.4	DC9P
	Rotary Actuator			
	2 maintained positions with 1NO maintained contact	0.2	0.4	DH5P
	2 maintained positions key operated with 1NO maintained contact key removable in both positions (MS1)	0.2	0.4	DG5P
	Additional Contacts			
	1 x NO contact	0.1	0.2	DCB5P
	1 x NC contact	0.1	0.2	DCB9P
	LED Pilot Lights			
	Red 12 to 30 Vac/Vdc	0.1	0.4	DPR12P
	Green 12 to 30 Vac/Vdc	0.1	0.4	DPG12P
	White 12 to 30 Vac/Vdc	0.1	0.4	DPW12P
	Blue 12 to 30 Vac/Vdc	0.1	0.4	DPB12P
	Yellow 12 to 30 Vac/Vdc	0.1	0.4	DPY12P
	Red 48 to 60 Vac/Vdc	0.1	0.4	DPR48P
	Green 48 to 60 Vac/Vdc	0.1	0.4	DPG48P
	White 48 to 60 Vac/Vdc	0.1	0.4	DPW48P
	Blue 48 to 60 Vac/Vdc	0.1	0.4	DPB48P
	Yellow 48 to 60 Vac/Vdc	0.1	0.4	DPY48P
	Red 85 to 264 Vac	0.1	0.4	DPR85P
	Green 85 to 264 Vac	0.1	0.4	DPG85P
	White 85 to 264 Vac	0.1	0.4	DPW85P
	Blue 85 to 264 Vac	0.1	0.4	DPB85P
	Yellow 85 to 264 Vac	0.1	0.4	DPY85P
	Transfer Kit			
	To be used when replacing old range of contacts 094055 and 094056 and old range of indicators 093992-093993 and 094092-094093	0.2	0.4	093959
	16 A Switches			
	1-pole switch with non-padlockable handle "0-1"	0.3	0.5	DS116P
	2-pole switch with non-padlockable handle "0-1"	0.3	0.5	DS216P
	3-pole switch with non-padlockable handle "0-1"	0.3	0.5	DS316P
	4-pole switch with non-padlockable handle "0-1"	0.3	0.5	DS416P
	2 way 1-pole selector switch with non-padlockable handle "1-2"	0.3	0.5	DS21601P
	3 way 1-pole selector switch with non-padlockable handle "1-0-2"	0.3	0.5	DS21602P
	2 way 2-pole selector switch with non-padlockable handle "1-2"	0.3	0.5	DS41601P
	3 way 2-pole selector switch with non-padlockable handle "1-0-2"	0.3	0.5	DS41602P

① Legend Plate Supplied.

D Series Accessories

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Description/Function		Weight kg	Volume dm ³	Catalog Number
	Spare Shrouds for Spring Return Push Buttons			
	Green shroud marked “I”	0.1	0.2	DSG
	Red shroud marked “0”	0.1	0.2	DSR
	Green shroud marked “start”	0.1	0.2	DSS
	Red shroud marked “A Réarmement”	0.1	0.2	DSA
	Black shroud (unmarked)	0.1	0.2	DSN
	Blue shroud (unmarked)	0.1	0.2	DSB
Aluminum Guard Painted Red				
Mushroom head actuator protection				DGD1A
Stainless Steel Padlocking Devices				
For spring return push button				DPLD1S
For rotary actuator, red mushroom head spring return or push-pull				DPLD2S
	Spare Lenses for Pilot Lights			
	Red	0.1	0.2	DPRENS
	Green	0.1	0.2	DPGLENS
	White	0.1	0.2	DPWLENS
	Blue	0.1	0.2	DPBLENS
	Yellow	0.1	0.2	DPYLENS
Spare Handle for Switches				
	Non-padlockable handle	0.2	0.2	DSNPH
	Padlockable handle — 48 mm x 48 mm	0.06	0.3	DSPH
Laminated Plastic Legend Plate with Black Lettering				
Large size — 60 mm x 50 mm				DLP00
Small size — 45 mm x 31.2 mm				DLP01
	Blanking Plug			
	Used to close-up unused openings on cover M22 x 1.5 mm	0.2	0.2	747DAM2B5

Controls

CONTROL STATIONS AND SWITCHES - FLAMEPROOF

D Series AC Ammeter

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

48 mm x 48 mm — Connection on Current Transformer — Deflection 90° — Class 1.5 — Round Barrel

Description/Function			Weight kg	Volume dm ³	Catalog Number
Rail Mounted					
1A C.T. 3 x F.L.C.	with 0-1-3 Scale		0.1	0.4	DMA1348R
1A C.T. 5 x F.L.C.	with 0-1-5 Scale		0.1	0.4	DMA1548R
1A C.T. 6 x F.L.C.	with 0-1-6 Scale		0.1	0.4	DMA1648R
5A C.T. 3 x F.L.C.	with 0-1-3 Scale		0.1	0.4	DMA5348R
5A C.T. 5 x F.L.C.	with 0-1-5 Scale		0.1	0.4	DMA5548R
5A C.T. 6 x F.L.C.	with 0-1-6 Scale		0.1	0.4	DMA5648R
Panel Mounted					
1A C.T. 3 x F.L.C.	with 0-1-3 Scale		0.1	0.4	DMA1348P
1A C.T. 5 x F.L.C.	with 0-1-5 Scale		0.1	0.4	DMA1548P
1A C.T. 6 x F.L.C.	with 0-1-6 Scale		0.1	0.4	DMA1648P
5A C.T. 3 x F.L.C.	with 0-1-3 Scale		0.1	0.4	DMA5348P
5A C.T. 5 x F.L.C.	with 0-1-5 Scale		0.1	0.4	DMA5548P
5A C.T. 6 x F.L.C.	with 0-1-6 Scale		0.1	0.4	DMA5648P
AC Ammeter Accessory					
Red Adjustable Index					DM48A



Interchangeable Dials for Above Ammeter

Scale	Number	Catalog Number	Scale	Number	Catalog Number	Scale	Number	Catalog Number
For 1 A Current Transformer 3 x F.L.C.			For 1 A Current Transformer 6 x F.L.C.			For 5 A Current Transformer 5 x F.L.C.		
0 - 5 - 15 A		DA135	0 - 5 - 30 A		DA165	0 - 5 - 25 A		DA555
0 - 10 - 30 A		DA1310	0 - 10 - 60 A		DA1610	0 - 10 - 50 A		DA5510
0 - 15 - 45 A		DA1315	0 - 15 - 90 A		DA1615	0 - 15 - 75 A		DA5515
0 - 20 - 60 A		DA1320	0 - 20 - 120 A		DA1620	0 - 20 - 100 A		DA5520
0 - 30 - 90 A		DA1330	0 - 30 - 180 A		DA1630	0 - 30 - 150 A		DA5530
0 - 40 - 120 A		DA1340	0 - 40 - 240 A		DA1640	0 - 40 - 200 A		DA5540
0 - 50 - 150 A		DA1350	0 - 50 - 300 A		DA1650	0 - 50 - 250 A		DA5550
0 - 60 - 180 A		DA1360	0 - 60 - 360 A		DA1660	0 - 60 - 300 A		DA5560
0 - 75 - 225 A		DA1375	0 - 75 - 450 A		DA1675	0 - 75 - 375 A		DA5575
0 - 100 - 300 A		DA13100	0 - 100 - 600 A		DA16100	0 - 100 - 500 A		DA55100
0 - 125 - 375 A		DA13125	0 - 125 - 750 A		DA16125	0 - 125 - 625 A		DA55125
0 - 150 - 450 A		DA13150	0 - 150 - 900 A		DA16150	0 - 150 - 750 A		DA55150
0 - 200 - 600 A		DA13200	0 - 200 - 1200 A		DA16200	0 - 200 - 1000 A		DA55200
0 - 250 - 750 A		DA13250	0 - 250 - 1500 A		DA16250	0 - 250 - 1250 A		DA55250
For 1 A Current Transformer 5 x F.L.C.			For 5 A Current Transformer 3 x F.L.C.			For 5 A Current Transformer 6 x F.L.C.		
0 - 5 - 25 A		DA155	0 - 5 - 15 A		DA535	0 - 5 - 30 A		DA565
0 - 10 - 50 A		DA1510	0 - 10 - 30 A		DA5310	0 - 10 - 60 A		DA5610
0 - 15 - 75 A		DA1515	0 - 15 - 45 A		DA5315	0 - 15 - 90 A		DA5615
0 - 20 - 100 A		DA1520	0 - 20 - 60 A		DA5320	0 - 20 - 120 A		DA5620
0 - 30 - 150 A		DA1530	0 - 30 - 90 A		DA5330	0 - 30 - 180 A		DA5630
0 - 40 - 200 A		DA1540	0 - 40 - 120 A		DA5340	0 - 40 - 240 A		DA5640
0 - 50 - 250 A		DA1550	0 - 50 - 150 A		DA5350	0 - 50 - 300 A		DA5650
0 - 60 - 300 A		DA1560	0 - 60 - 180 A		DA5360	0 - 60 - 360 A		DA5660
0 - 75 - 375 A		DA1575	0 - 75 - 225 A		DA5375	0 - 75 - 450 A		DA5675
0 - 100 - 500 A		DA15100	0 - 100 - 300 A		DA53100	0 - 100 - 600 A		DA56100
0 - 125 - 625 A		DA15125	0 - 125 - 375 A		DA53125	0 - 125 - 750 A		DA56125
0 - 150 - 750 A		DA15150	0 - 150 - 450 A		DA53150	0 - 150 - 900 A		DA56150
0 - 200 - 1000 A		DA15200	0 - 200 - 600 A		DA53200	0 - 200 - 1200 A		DA56200
0 - 250 - 1250 A		DA15250	0 - 250 - 750 A		DA53250	0 - 250 - 1500 A		DA56250

D Series Actuators, Pilot Lights, Contact Blocks, Switches and Accessories

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Technical Data

Contact Block

3
4

1
2

NO Contact Block

NC Contact Block

Insulation Voltage (Ui) 500 V

Switching Capacity

AC 15 4 A/115 V, 4 A/230 V, 2 A/500 V

DC 13 3 A/24 V, 1.7 A/42 V, 1.2 A/60 V, 0.3 A/220 V

Terminal connections 0.75 mm² to 2.5 mm²

Operation life >5,000,000 Operations

LED Pilot Light



Rated Voltage 85-264 Vac, 50/60 Hz

Rating 5-15mA

Max. Power 0.33 W

Operation life Average 100,000 Hours at +25 °C

16 A Selector Switch

Rated insulation voltage 690 V

Thermal rating 20 A

AC 21 16 A

AC 15 6 A

AC 23 3 x 230 V 4 KW

3 x 400 V 7.5 KW

3 x 500 V 5.5 KW

3 x 690 V 4 KW

AC 3 3 x 230 V 3 KW

3 x 400 V 4 KW

3 x 500 V 5.5 KW

3 x 690 V 3 KW

Flexible Terminal connections 2.5 mm²

Solid Terminal connections 4 mm²

16 A Selector Switch Positions — X = Contact Closed

DS116

Positions	Contacts 1-2
0	
1	X

DS216

Positions	Contacts 1-2	3-4
0		
1	X	X

DS316

Positions	Contacts 1-2	3-4	5-6
0			
1	X	X	X

DS416

Positions	Contacts 1-2	3-4	5-6	7-8
0				
1	X	X	X	X

DS21601

Positions	Contacts 1-2	3-4
1	X	
2		X

DS21602

Positions	Contacts 1-2	3-4
1	X	
0		
2		X

DS41601

Positions	Contacts 1-2	3-4	5-6	7-8
1	X		X	
2		X		X

DS41602

Positions	Contacts 1-2	3-4	5-6	7-8
1	X		X	
0				
2		X		X

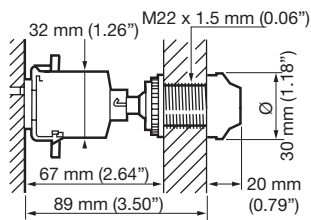
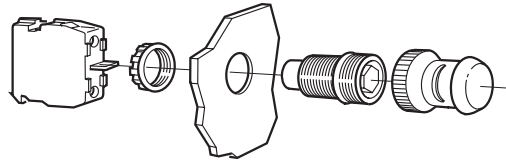
D Series Actuators, Pilot Lights, Contact Blocks, Switches and Accessories

Flameproof

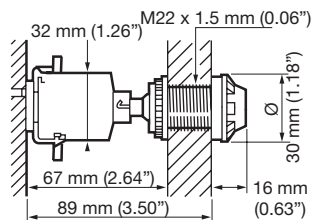
Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Dimensions in Millimeters

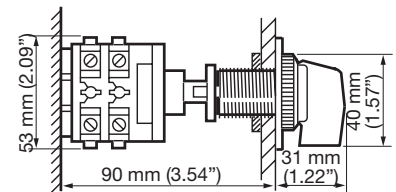
Rail Mounted



Rail Mounted Push Button

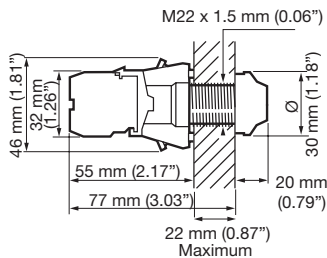
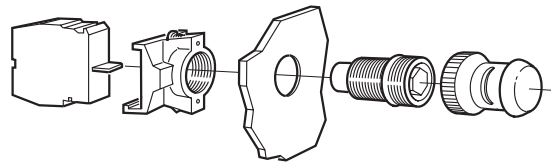


Rail Mounted Pilot Light

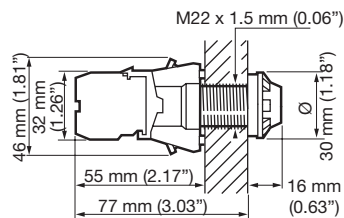


Back Mounted Switch

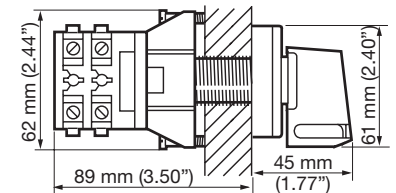
Panel Mounted



Panel Mounted Push Button

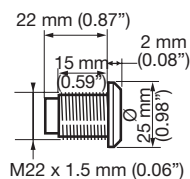


Panel Mounted Pilot Light

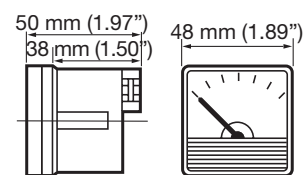


Panel Mounted Switch

Accessories



Blanking Plug



Ammeter

RSI Series Intrinsic Safety Relays for Safe Areas For Flameproof Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Single Channel Relay:
 - For installation in a safe area (NIS area) or Exd box.
- 2-Channel Relay:
 - For installation in a safe area (NIS area).

Features

- Single and 2-Channel Relay:
 - Provides galvanic isolation of the circuits between the IS area and the NIS area.
 - Mounting on EN 50 022 rail.
 - Input signal (from hazardous area) selected by jumpers:
 - 2-wire NAMUR proximity switch.
 - Volt-free contact (switched current 8.2. V, 8 mA).
 - Direct or reverse repeater selected by jumper.
 - Connection: 2-conductor cable, dielectric strength 500 V, cross-section 2.5 mm², distance between cables: 8 mm.
 - Connection: 2.5 mm² maximum
- Single Channel Relay:
 - Transmits to the safe (NIS) area one signal received from the hazardous (IS) area.
 - Relay can be supplied with 24-28 Vdc, 110-140 V, 200-240 V.
 - Output signal (safe area) - electromagnetic relay, 1 changeover switch:
 - 6 A maximum (at 24 V)
 - Maximum: 5A, 250 V, 10 Hz (switching frequency)
- 2-Channel Relay:
 - Transmits to the safe (NIS) area two signals received from the hazardous (IS) area.
 - Relay can be supplied with 24-48 Vdc, 110-140 V, 200-240 V.
 - Output signal (safe area) - electromagnetic relay, 2 changeover switches:
 - 6 A maximum (at 24 V)
 - Maximum: 5 A, 250 V, 10 Hz (switching frequency)

1-Channel Relay



2-Channel Relay



Certifications and Compliances

◆ ATEX Certification

• Certification Type RDN

- Gas, Zones 1 and 2
- Conforming to ATEX 94/9/CE: Ⓢ II 1 G
- Dust, Zones 21 and 22
- Conforming to ATEX 94/9/CE: Ⓢ II 1 D
- Type of Protection: Ex ia IIC
- Surface Temperature: -10 °C to +60 °C
- CE Declaration of Conformity: 50270

◆ Others Certification

- SIL 2

RSI Series Intrinsic Safety Relays for Safe Areas

For Flameproof Enclosures

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Catalog Numbering Guide

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Series:
ATEX Certified

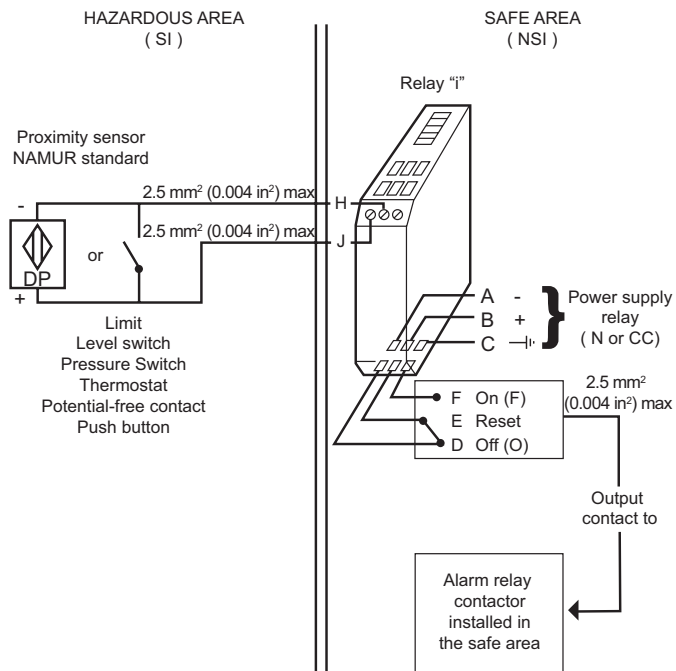
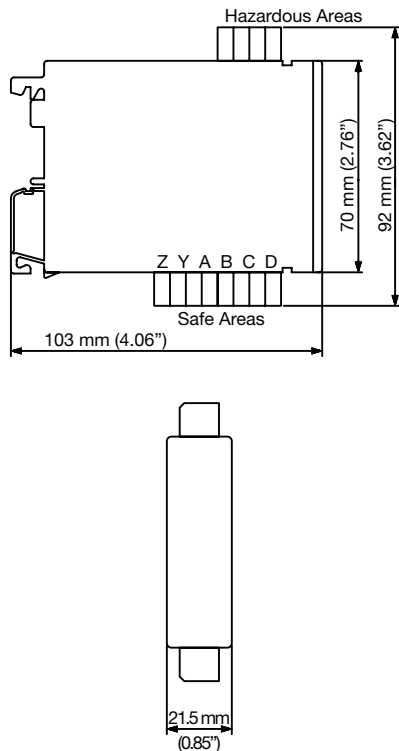
3
|
Channel Number:
1 - Single channel
2 - Two channel

11
|
Voltage:
04D - 24 - 48 Vdc
14A - 110 - 140 Vac 50/60 Hz
24A - 200 - 240 Vac 50/60 Hz

Relays

Description	Catalog Number
Single Channel Relay	
200 - 240 V - 50/60 Hz	RSI124A
110 - 140 V - 50/60 Hz	RSI114A
24 - 48 V - 50/60 Hz	RSI104D
2-Channel Relay	
200 - 240 V - 50/60 Hz	RSI224A
110 - 140 V - 50/60 Hz	RSI214A
24 - 48 V - 50/60 Hz	RSI204D

Dimensions in Millimeters



FAS Series “Break Glass” Call Points

Increased Safety and Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Located on exit routes, in particular on the floor landings of staircases and at all exits to the open air.
- For use in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries and other process industries.

Features

- Type PCe (increased safety version):
 - Hammer and stainless steel chain.
 - NO+NC contacts with 2.5 mm² terminals.
 - Earth termination: 2 x 4 mm² – internal and external.
 - 2 x M20 bottom entries supplied with polyamide cable gland – 6.5 to 14.5 mm diameter and polyamide blanking plug.
- Type BR1d (flameproof version):
 - Hammer and stainless steel chain.
 - NO+NC contacts with 2.5 mm² terminals.
 - Earth termination: 2 x 4 mm² – internal and external.
 - 2 x M20 entries (1 top and 1 bottom) supplied with one aluminum blanking plug.

Standard Materials

- Type PCe
 - Box: red painted aluminum alloy
 - Cover: red painted steel
 - Chain: stainless steel
- Type BR1d
 - Box: painted marine grade aluminum alloy (gray painted body and red painted cover)
 - Chain: stainless steel

Options

- Special options available - consult factory for details.

Certifications and Compliances

◆ ATEX Certification

- **Certification Type: PCe**
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature class: T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C
- Ambient Temperature: -55 °C to +60 °C
- CE Declaration of Conformity: 50221
- ATEX Certificate: LCIE 00 ATEX 6047
- Index of Protection according EN/IEC 60529: IP66
- **Certification Type: BR1d**
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6 for Ta = +40 °C; T5 for Ta = +55 °C
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C
- Ambient Temperature: -40 °C to +55 °C
- CE Declaration of Conformity: 50230

① Inmetro certification available on special request only. Contact your local sales for more information.



Ex de IIC Version
(PCe Type)



Ex d IIC Version
(BR1d Type)

- ATEX Certificate: LCIE 02 ATEX 605
- Index of Protection according EN/IEC 60529: IP66

◆ Others Certification ①

- **Certification Type: PCe**
 - EURASEC RU C-FR. Г5 05.B.00911
- **Certification Type: BR1d**
 - EURASEC RU C-FR. Г5 05.B.00911

FAS Series “Break Glass” Call Points

Increased Safety and Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Catalog Numbering Guide

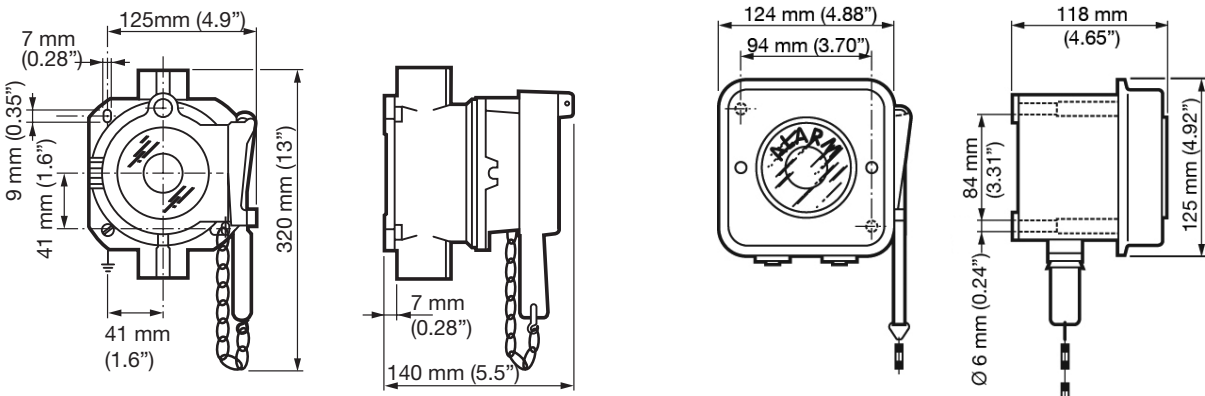
FAS
|
Series:
FAS
Zone 1 and 2 - 21 and 22
ATEX Certified

D
|
D - Ex d
E - Ex e

A
|
A - Automatic
M - Manual

Description	Weight kg	Volume dm³	Catalog Number	Pack
Increased Safety Ex de IIC Version - Type PCe:				
Manual breaking of the circuit after breaking the glass. Momentary NO+NC contacts	1.2	5	FASEM	1
Automatic breaking of the circuit as soon as glass is broken. Momentary NO+NC contacts	1.2	5	FASEA	1
Flameproof Ex d IIC Version - Type BR1d:				
Automatic breaking of the circuit as soon as glass is broken. Momentary NO+NC contacts	1.2	3.8	FASDA ①	1

Dimensions in Millimeters



① Please check your cable entry as FASDA is M20 and not M25 as the old catalog number 093818.

Shaded catalog numbers are normally stocked items. All other items are made to order.

SWE Series 16 and 20 Amp Switches

Increased Safety

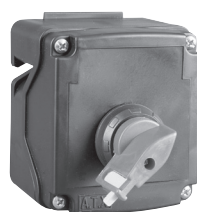
Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Designed to prevent operation in explosive atmospheres during connect and disconnect operation of lighting and light power loads.
- For use in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries and other process industries.

Features

- Available up to 690 Volts, and up to 20 Amps
- 16 Amp version:
 - Two bottom M20 clearance holes.
 - Switch mechanism fixed at the bottom of the box.
 - Termination:
 - Type 1: 2.5 mm²
 - Type 2: 2.5 mm² flexible, 4 mm² solid
 - Internal earth:
 - 2 x 2.5 mm² terminals
 - Supplied with:
 - 1 x white self-adhesive laminated plastic label with black lettering – 58 mm x 18 mm
- 20 Amp version:
 - Two M20 threaded entries on the bottom of the box.
 - Switch mechanism fixed on the bottom of the box.
 - Padlockable handle in position 0 using maximum 4 padlocks – maximum handle diameter 8 mm and minimum 15 mm length.
 - Termination:
 - 2.5 mm² flexible/4 mm² solid
 - Internal earth:
 - 2 x 4 mm² terminals
 - Supplied with:
 - 1 x yellow self-adhesive laminated plastic label with black lettering – 65 mm x 18 mm



16 A Version – Type 1



16 A Version – Type 2



20 A Version

◆EURASEC Certification

- Certification Type PCe**
 - EURASEC RU C-FR. ГБ 05.B.00911

◆Others Certification ①

- Certification Type PCe**
 - INMETRO Certificate: BVC 11.0640-X

Standard Materials

- 16 Amp version:
 - Polyamide box.
 - A2 stainless steel coarse pitch screws (1 and a half turn).
 - Polyamide cable glands.
 - Nickel plated brass locknuts.
- 20 Amp version:
 - Polyester box
 - A2 stainless steel captive screws.
 - Polyamide cable glands.

Certifications and Compliances

◆ATEX Certification

- Certification Type PCe**
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C
 - Ambient Temperature: -20 °C to +40 °C
 - CE Declaration of Conformity: 50221
 - ATEX Certificate: LCIE 00 ATEX 60472
 - Index of Protection according EN/IEC 60529: IP66

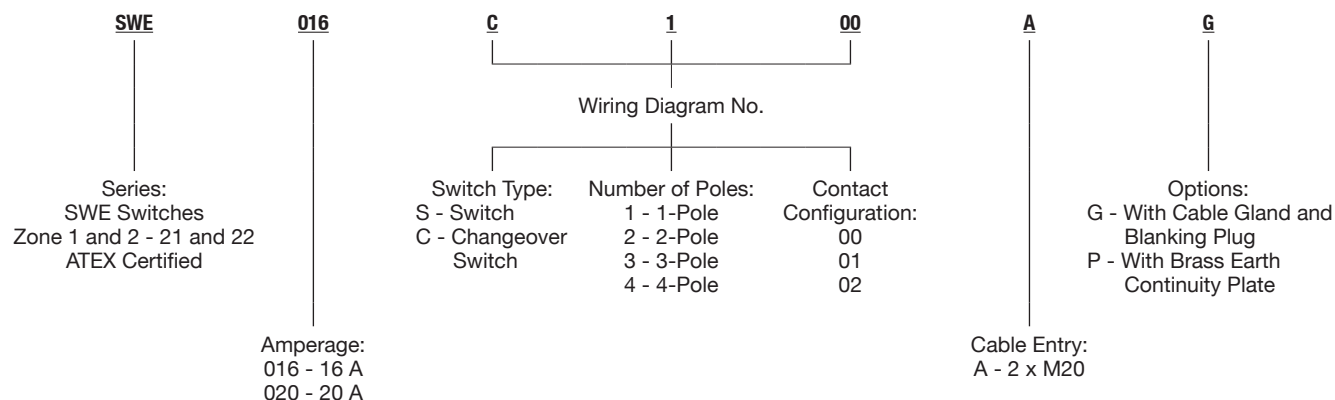
① Inmetro certification available on special request only. Contact your local sales for more information.

SWE Series 16 and 20 Amp Switches

Increased Safety

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Catalog Numbering Guide



Switch Type	Wiring Diagram No.	Type	Weight kg	Volume dm ³	Catalog Number
16 Amp Switch – Type 1 – Padlockable handle – Two M20 polyamide cable glands (cable dia. 6.5 to 14.5 mm) on the bottom					
Changeover switch	C101	1	0.53	2	SWE016C101AG
2-pole	S201	1	0.53	2	SWE016S201AG
16 Amp Twist Button - Type 2 – Non-padlockable handle – Two M20 clearance holes on the bottom					
Changeover switch	C100	2	0.50	2	SWE016C100A
2-pole	S200	2	0.50	2	SWE016S200A
20 Amp Switch – Padlockable handle – Two M20 polyamide cable glands (cable dia. 6.5 to 14.5 mm) on the bottom					
Changeover switch	C100	—	1	2	SWE020C100AG
2-pole	S202	—	1	2	SWE020S202AG
3-pole	S301	—	1	2	SWE020S301AG
4-pole	S401	—	1	2	SWE020S401AG

Shaded catalog numbers are normally stocked items. All other items are made to order

SWE Series 16 and 20 Amp Switches

Increased Safety

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Main Contacts	16 Amps Type 1	16 Amps Type 2	20 Amps
Rated Insulation Voltage	750 V	500 V	500 V
Rated Operating Voltage	690 Vac/110 Vdc	500 V	500 V
Rated Operating Current	16 Amp	16 Amp	20 Amp

Switching Capacity

AC 1	16 Amp, 690 V	16 Amp, 500 V	—
AC 12	—	16 Amp, 400 V	—
AC 14	—	10 Amp, 400 V	—
AC 15	16 Amp, 415 V	6 Amp, 500 V	—
AC 21	—	—	16 Amp, 500 V
AC 23	—	—	16A mp, 400 V
AC 3	08 Amp, 500 V	—	—
AC 3	04 Amp, 690 V	—	—
DC 1	10 Amp, 24 V	—	—
DC 1	06 Amp, 60 V	—	—
DC 1	06 Amp, 110 V ①	—	—
DC 13	—	1 Amp, 110 V	—
DC 13	—	2 Amp, 24 V	—

Termination (flexible/solid)	2.5 mm ² /4 mm ²	2.5 mm ²	2.5 mm ² /4 mm ²
---------------------------------	--	---------------------	--

Switching Arrangement X Denotes "Closed Contact"

16 Amp Switch C101

Positions	Contacts	
	11–12	23–24
0	X	
1		X

S201

Positions	Contacts	
	13–14	23–24
0		
1	X	X

16 Amp Twist Button C100

Positions	Contacts	
	1–2	3–4
0	X	
1		X

S200

Positions	Contacts	
	3–4	3–4
0		
1	X	X

20 Amp Switch C100

Positions	Contacts	
	1–2	3–4
0	X	
1		X

S202

Positions	Contacts	
	1–2	3–4
0		
1	X	X

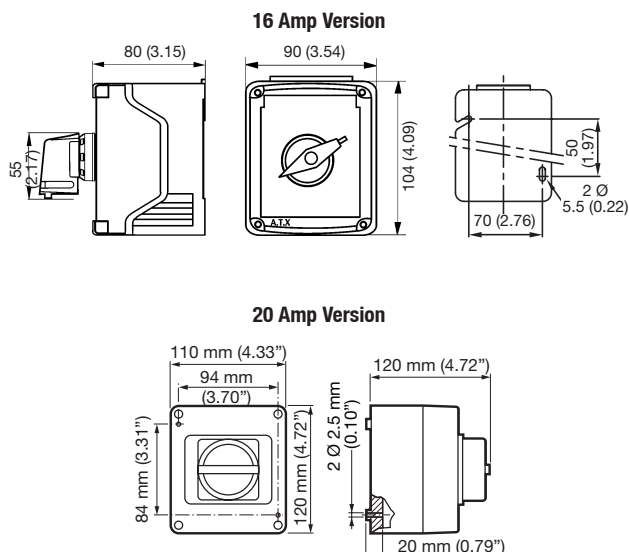
S301

Positions	Contacts		
	1–2	3–4	5–6
0			
1	X	X	X

S401

Positions	Contacts			
	1–2	3–4	5–6	7–8
0				
1	X	X	X	X

Dimensions in Millimeters



① 2 contacts connected in series.

SWE Series 40, 63 and 160 Amp Switches

Increased Safety

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Designed to prevent operation in explosive atmospheres during connect and disconnect operation of power loads.
- For use in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries and other process industries.

Features

- Available up to 690 Volts, and up to 160 Amps
- 63 Amp version:
 - Padlockable handle in position “O” using max. 4 padlocks [maximum handle diameter 8 mm and minimum 15 mm length].
 - 3 or 4-pole switch mechanism with one ‘NO’ early break auxiliary contact.
 - Main contact termination: 35 mm².
 - Auxiliary contact termination: 2.5 mm².
 - Supplied with:
 - Cable entries:
 - 1 x M32 clearance on top
 - 1 x M32 and 1 x M20 clearance on bottom
 - Supplied with:
 - 2 x M32 polyamide cable glands – cable 10 mm to 25 mm.
 - 1 x M20 blanking plug
 - 1 x yellow self-adhesive laminated plastic label with black lettering – 65 mm to 18 mm.
- 160 Amp version:
 - Hinged door.
 - Closed with plastic double bar locks (key supplied).
 - Supplied with 4 fixing lugs.
 - Padlockable handle in position “O”.
 - 3 or 4-pole switch mechanism with one ‘NO’ early break auxiliary contact.
 - Main contact termination: 120 mm².
 - Auxiliary contact termination: 2.5 mm².
 - Supplied with:
 - Cable entries:
 - 1 x M63 clearance on top
 - 1 x M63 and 1 x M25 clearance on bottom
 - Supplied with:
 - 2 x M63 polyamide cable glands – cable 36 mm to 44 mm.
 - 1 x M25 blanking plug

Standard Materials

- Polyester (GRP) box.
- 316L stainless steel box.
- A2 stainless steel captive screws.
- Polyamide cable glands and blanking plugs.
- Nickel plated brass locknut.

Certifications and Compliances

◆ATEX/ IECEx Certification

- **Certification Type: CAe (Polyester box)**
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature class: T5 at +40 °C, T4 at +55 °C.



40 A/63 Amp Version



160 Amp Version

- Dust: Zone 21 and 22
- Conforming to ATEX 94/9/CE: Ⓔ II 2 D
- Type of Protection: Ex tD A21
- Surface Temperature: T95 °C at +40 °C, T130 °C at +55 °C.
- Ambient Temperature:
 - -20 °C to +55 °C (40 A and 63 A)
 - -30 °C to +55 °C (160 A)
- CE Declaration of Conformity: 50235
- ATEX Certificate: LCIE 02 ATEX 6248X
- IECEx Certificate: IECEx LCI 04.0016X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

• Certification Type: JBe (Stainless steel box)

- Gas: Zone 1 and 2
- Conforming to ATEX 94/9/CE: Ⓔ II 2 G
- Type of Protection: Ex de IIC
- Temperature class: T5 at +40 °C, T4 at +55 °C
- Dust: Zone 21 and 22
- Conforming to ATEX 94/9/CE: Ⓔ II 2 D
- Type of Protection: Ex tD A21
- Surface Temperature: T95 °C at +40 °C, T130 °C at +55 °C
- Ambient Temperature:
 - -20 °C to +55 °C (40 A and 63 A)
 - -30 °C to +55 °C (160 A)
- CE Declaration of Conformity: 50232
- ATEX Certificate: LCIE 02 ATEX 6118X
- IECEx Certificate: IECEx LCI 11.0008X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

◆EURASEC Certification

• Certification Type: CAe (Polyester box)

- EURASEC RU C-FR. ГБ 05.B.00911

• Certification Type: JBe (Stainless steel box)

- EURASEC RU C-FR. ГБ 05.B.00911

◆Others Certification ①

• Certification Type: CAe (Polyester box)

- INMETRO Certificate: BVC 12.0421-X

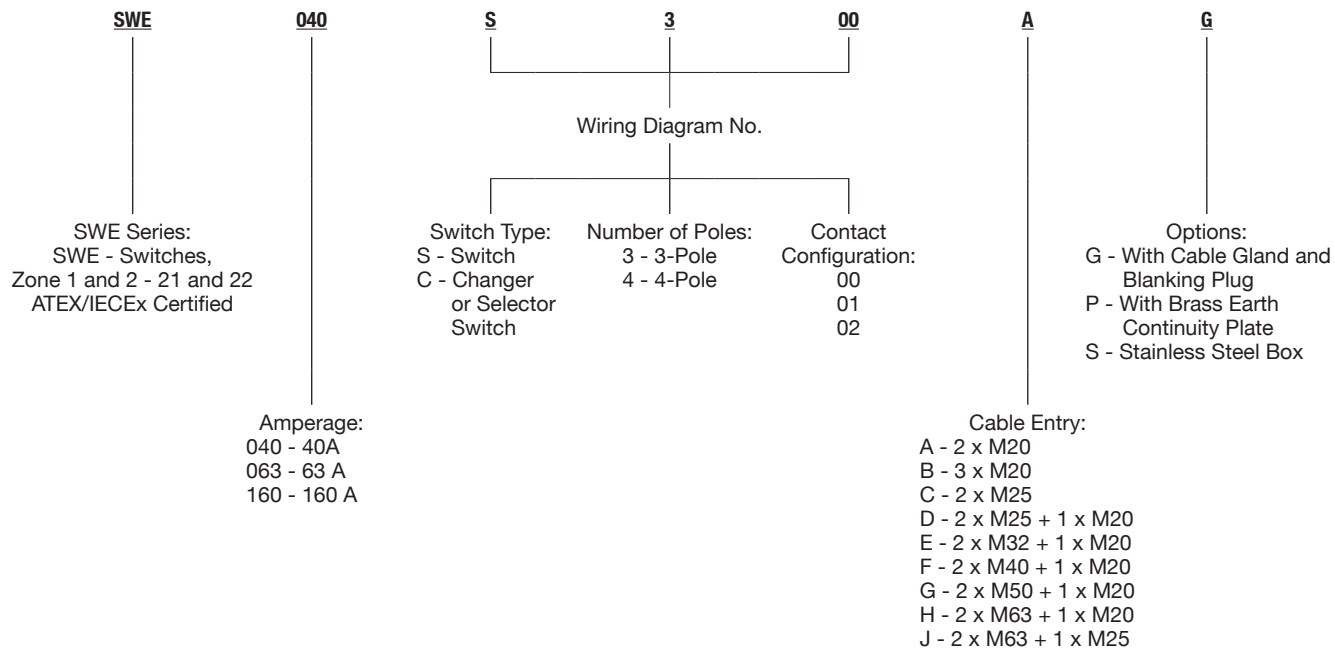
① Inmetro certification available on special request only. Contact your local sales for more information.

SWE Series 40, 63 and 160 Amp Switches

Increased Safety

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Catalog Numbering Guide



Switch Type	Wiring Diagram No.	Weight kg	Volume dm ³	Catalog Number
63 A Switch – 2 x M32 + 1 x M20 – Polyester Box				
3-pole switch	S302	8	14.5	SWE063S302EG
4 Pole Switch	S402	8	14.5	SWE063S402EG
160 A Switch – 2 x M63 + 1 x M25 – Polyester Box				
3-pole switch	S302	16	75	SWE160S302JG
4 Pole Switch	S402	16	75	SWE160S402JG
160 A Switch – 2 x M63 + 1 x M25 – Stainless Steel Box				
4-pole switch	S402	25	75	SWE160S402JS

Switching Arrangement – X Denotes "Closed Contact"

S302

Positions	Aux	Contacts		
		1	2	3
0				
1	X	X	X	X

S402

Positions	Aux	Contacts			
		1	2	3	4
0					
1	X	X	X	X	X

SWE Series 40, 63 and 160 Amp Switches

Increased Safety

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Main Contacts	63 Amps	160 Amps
Rated Insulation Voltage	690 Vac	690 Vac
Rated Operating Voltage	690 Vac	690 Vac
Rated Operating Current	63 Amp	160 Amp
Rated Surge Voltage	6 KV	8 KV
Switching Capacity		
AC 21 A/AC 22 A	63 Amp, 230 V to 690 V	160 Amp, 400 V to 690 V
AC 23 A	15 kW, 230 V	
	22 kW, 400 V	80 kW, 400 V
	30 kW, 500 V	110 kW, 500 V
	18.5 kW, 690 V	55 kW, 690 V
AC 3	11 kW, 230 V	
	18.5 kW, 400 V	90 kW, 400 V
	22 kW, 500 V	70 kW, 500 V
	15 KW, 690 V	
DC 21	—	160 Amp, 220 V ①
		160 Amp, 440 V ①
DC 22	—	160 Amp, 220 V ①
		100 Amp, 440 V ①
DC 23	—	160 Amp, 220 V ①
		63 Amp, 440 V ①
Auxiliary Contacts		
Rated Insulation Voltage	400 V	230 V
Rated Operating Voltage	400 V	230 V
Rated Operating Current	10 Amp	10 Amp
Switching Capacity		
AC 15	6 Amp, 230 V	6 Amp, 230 V
	4 Amp, 400 V	
Others		
Termination (flexible/solid)	35 mm²	120 mm²

① 2 contacts connected in series per pole.

SWE Series 40, 63 and 160 Amp Switches

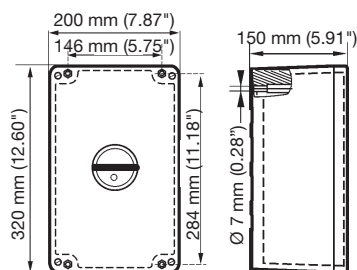
Increased Safety

Zone 1 and 2 – 21 and 22

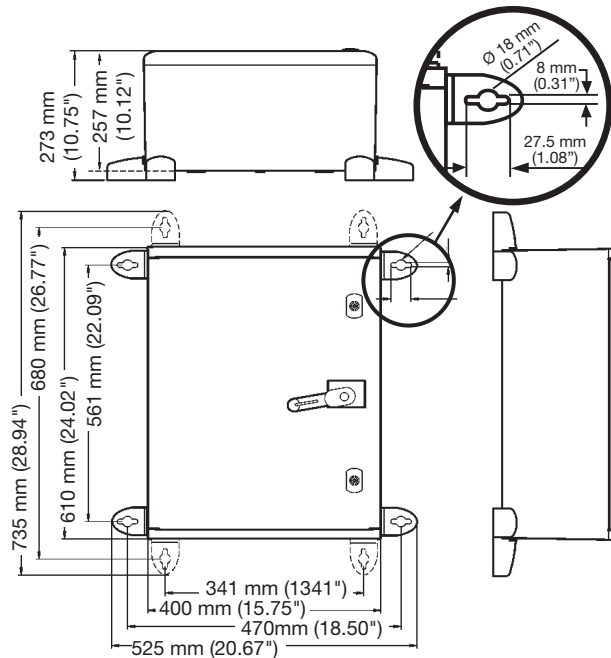
Gas (G) and Dust (D)

Dimensions in Millimeters

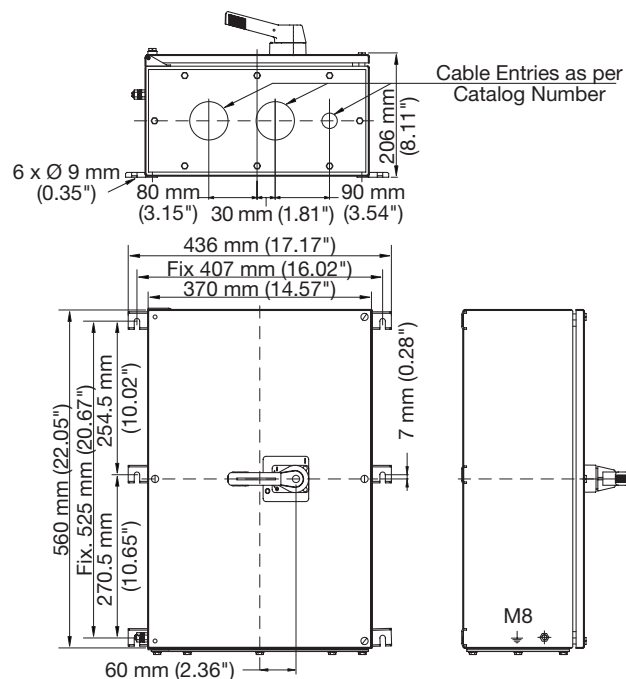
40 Amp/63 Amp Polyester Version



160 Amp Polyester Version



160 Amp Stainless Steel Version



Controls

CALL POINTS STATIONS AND AUDIO SIGNALING DEVICES - INCREASED SAFETY

SWD Series 16 and 32 Amp Switches

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Designed to prevent operation in explosive atmospheres during connect and disconnect operation of lighting and light power loads.
- For use in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries and other process industries.

Features

- Available up to 690 Volts, and up to 32 Amps
- Two threaded entries (one top and one bottom) M20 or M25.
- Switch mechanism fixed at the bottom of the box.
- Padlockable handle.
- Termination:
 - 16 Amp 4 mm² terminals
 - 32 Amp 6 mm² terminals
- Internal earth:
 - 2 x 4 mm² terminals
- External earth:
 - M5 for 16 Amps
 - M6 for 32 Amps

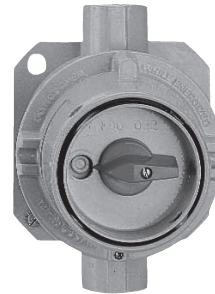
Standard Materials

- Gray painted marine grade aluminum alloy box.
- A2 stainless steel captive screws.

Certifications and Compliances

◆ATEX Certification

- **16 Amp Version. Certification Type: BR1d (16A)**
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: ⚡ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6 for Ta = +40 °C, T5 for Ta = +55 °C
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: ⚡ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C
- Ambient Temperature: -40 °C to +55 °C
- CE Declaration of Conformity: 50230
- ATEX Certificate: LCIE 02 ATEX 6056
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10
- **32 Amp Version. Certification Type: CF1E (32A)**
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: ⚡ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6 for Ta ≤ +40 °C, T5 for +40 °C < Ta ≤ +55 °C
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: ⚡ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C
- Ambient Temperature: -40 °C to +55 °C
- CE Declaration of Conformity: 50257
- ATEX Certificate: LCIE 03 ATEX 6044X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10



16 Amp Version



32 Amp Version

◆EURASEC Certification

- **16 Amp Version. Certification Type: BR1d (16A)**
 - EURASEC RU C-FR. ГБ 05.B.00911
- **32 Amp Version. Certification Type: CF1E (32A)**
 - EURASEC RU C-FR. ГБ 05.B.00911

Controls

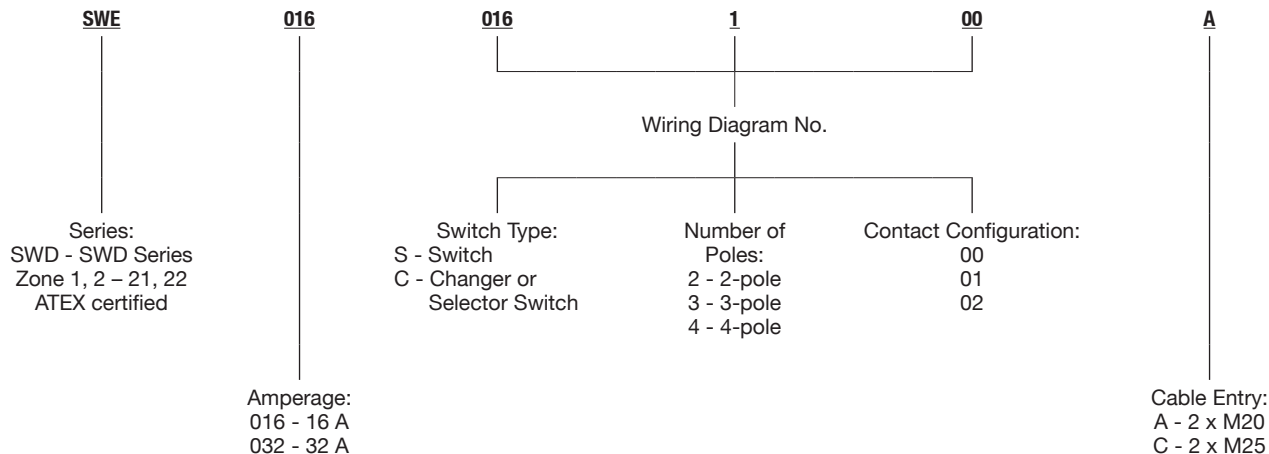
CALL POINTS STATIONS AND AUDIO SIGNALING DEVICES - INCREASED SAFETY

SWD Series 16 and 32 Amp Switches

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Catalog Numbering Guide



Switch Type	Wiring Diagram No.	Entries	Weight kg	Volume dm³	Catalog Number
16 Amp Switch					
1-pole changeover	C100	2 x M20	1.1	3.8	SWD016C100A
		2 x M25			SWD016C100C
2-pole switch	S200	2 x M20	1.1	3.8	SWD016S200A
		2 x M25			SWD016S200C
3-pole switch	S300	2 x M20	1.1	3.8	SWD016S300A
		2 x M25			SWD016S300C
4-pole switch	S400	2 x M20	1.1	3.8	SWD016S400A
		2 x M25			SWD016S400C
32 Amp Switch					
2-pole switch	S200	2 x M20	2.7	8.0	SWD032S200A
		2 x M25			SWD032S200C
3-pole switch	S300	2 x M20	2.7	8.0	SWD032S300A
		2 x M25			SWD032S300C
4-pole switch	S400	2 x M20	2.7	8.0	SWD032S400A
		2 x M25			SWD032S400C

Switching Arrangement — X Denotes "Closed Contact"

C100			C200			S300				S400				
Contacts			Contacts			Contacts				Contacts				
Positions	1-2	3-4	Positions	1-2	3-4	Positions	1-2	3-4	5-6	Positions	1-2	3-4	5-6	7-8
0	X		0			0				0				
1		X	1	X	X	1	X	X	X	1	X	X	X	X

Shaded catalog numbers are normally stocked items. All other items are made to order.

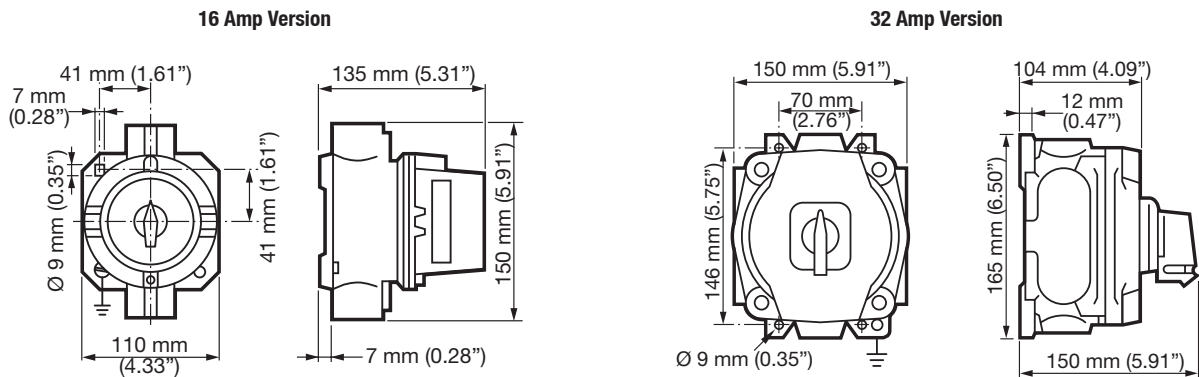
SWD Series 16 and 32 Amp Switches

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Main Contacts		16 Amps	32 Amps
Rated insulation voltage (Ui)		690 V	690 V
Rated Operating Current (Ie)		20 A	40 A
AC 21 A		16 A	32 A
AC 15		6 A	12 A
AC 23 A	3 x 230 V	4 KW	11 KW
	3 x 400 V	7.5 KW	11 KW
	3 x 500 V	5.5 KW	11 KW
	3 x 690 V	4 KW	11 KW
AC 3 A	3 x 230 V	3 KW	5.5 KW
	3 x 400 V	4 KW	11 KW
	3 x 500 V	5.5 KW	11 KW
	3 x 690 V	3 KW	11 KW
Flexible Termination		2.5 mm²	6 mm²
Solid Termination		4 mm²	6 mm²

Dimensions in Millimeters



SWD Series 20, 32, 63, 100, 125, 160 and 250 Amp Isolator Switches

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- Designed to prevent operation in explosive atmospheres during connect and disconnect operation of power loads.
- For use in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries and other process industries.

Features

- Available up to 690 Volts, and up to 250 Amps
- Padlockable handle in position “O”.
- 3 or 4-pole switch mechanism.
- “NO-NC” early break auxiliary contact.
- Main contact termination:
Up to 85 mm².
- Auxiliary contact termination: 2.5 mm².
- Threaded cable entries:
two at bottom and one at top – M20 to M63
- Supplied with:
1 x M20 blanking plug
1 x M8 earth stud

Standard Materials

- Box: marine grade aluminum alloy
- Captive screws: A2 stainless steel

Standard Finishes

- Box: gray paint RAL 7038

Options

- Visible break assembly including a window to view power connection (only for 32 A to 160 A versions).

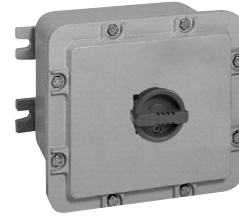
Certifications and Compliances

◆ATEX or ATEX/IECEx Certification

- **Certification Type: CF2D**
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature class: T6 for Ta ≤ +40 °C; T5 for +40 °C < Ta ≤ +55 °C.
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C.
 - Ambient Temperature: -40 °C to +55 °C.
 - CE Declaration of Conformity: 50254
 - ATEX Certificate: LCIE 02 ATEX 6061X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
 - Internal Volume: >2 dm³ (2 liters)
- **Certification Type: CF**
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - ATEX/IEC Protection: Ex d IIB
 - Temperature class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C.
 - Ambient Temperature: -40 °C to +55 °C;
CF10B is -20 °C to +55 °C.
 - CE Declaration of Conformity: 50229



63Amp with visible breaking



63 Amp Version

- ATEX Certificate: LCIE 02 ATEX 6057X
- IECEx Certificate: LCI.08 0023X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10
- Internal Volume: >2 dm³ (2 liters)

◆EURASEC Certification

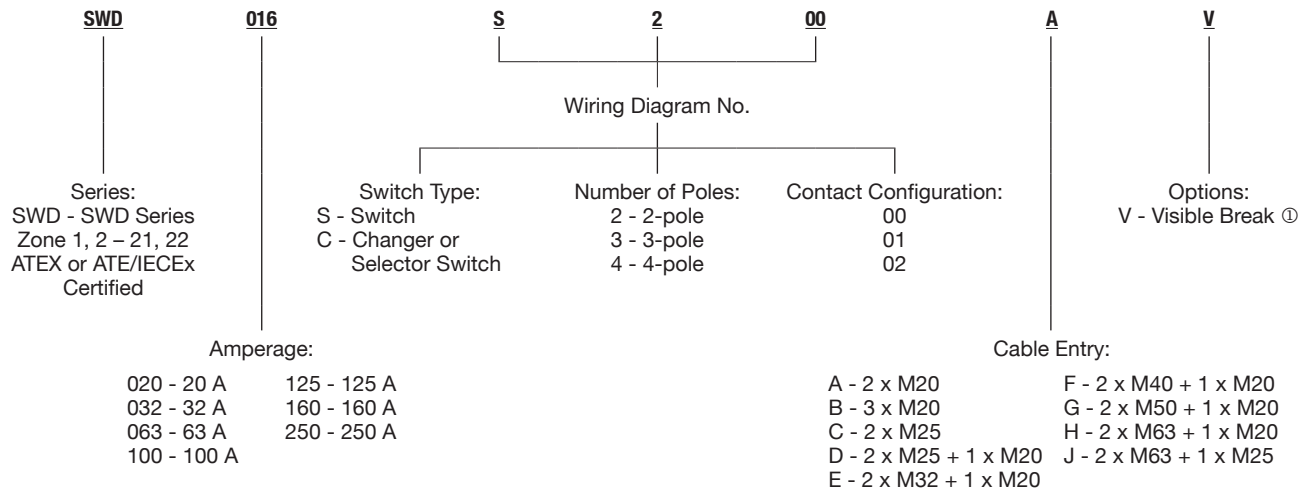
- **Certification Type: CF2D**
 - EURASEC RU C-FR. ГБ 05.B.00911
- **Certification Type: CF**
 - EURASEC RU C-FR. ГБ 05.B.00911

SWD Series 20, 32, 63, 100, 125, 160 and 250 Amp Isolator Switches

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Catalog Numbering Guide



Switching Arrangement — X Denotes "Closed Contact"

S300

Positions	Contacts		
	1-2	3-4	5-6
0			
1	X	X	X

S400

Positions	Contacts			
	1-2	3-4	5-6	7-8
0				
1	X	X	X	X

① For 32 to 160 Amp versions only.

SWD Series 20, 32, 63, 100, 125, 160 and 250 Amp Isolator Switches

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Switch Type	Wiring Diagram No.	Certified Type	Weight kg	Volume dm ³	Catalog Number
20 A – 3 x M20 threaded entries (1 Top and 2 Bottom)					
3-pole switch	S300	CF2D	3.8	11	SWD020S300B
4-pole switch	S400	CF2D	3.8	11	SWD020S400B
32 A – Bottom entries: 1 x M25 + 1 x M20 – Top entries: 1 x M25					
3-pole switch	S300	CF2D	3.8	11	SWD032S300D
3-pole switch + visible breaking	S300	CF20B	15	24.5	SWD032S300DV
4-pole switch	S400	CF10B	11	19.6	SWD032S400D
4-pole switch + visible breaking	S400	CF20B	15	24.5	SWD032S400DV
63 A – Bottom entries: 1 x M32 + 1 x M20 – Top entries: 1 x M32					
3-pole switch	S300	CF10B	11	19.6	SWD063S300E
3-pole switch + visible breaking	S300	CF20B	15	24.5	SWD063S300EV
4-pole switch	S400	CF10B	11	19.6	SWD063S400E
4-pole switch + visible breaking	S400	CF20B	15	24.5	SWD063S400EV
100 A – Bottom entries: 1 x M40 + 1 x M20 – Top entries: 1 x M40					
3-pole switch	S300	CF20B	13	24.5	SWD100S300F
4-pole switch	S400	CF20B	13	24.5	SWD100S400F
125 A – Bottom entries: 1 x M50 + 1 x M20 – Top entries: 1 x M50					
3-pole switch	S300	CF20B	13	24.5	SWD125S300G
3-pole switch + visible breaking	S300	CF40B	52	235.2	SWD125S300GV
4-pole switch	S400	CF20B	13	24.5	SWD125S400G
4-pole switch + visible breaking	S400	CF40B	52	235.2	SWD125S400GV
160 A – Bottom entries: 1 x M50 + 1 x M20 – Top entries: 1 x M50					
3-pole switch	S300	CF40B	50.5	235.2	SWD160S300G
3-pole switch + visible breaking	S300	CF40B	52	235.2	SWD160S300GV
4-pole switch	S400	CF40B	50.5	235.2	SWD160S400G
4-pole switch + visible breaking	S400	CF40B	52	235.2	SWD160S400GV
250 A – Bottom entries: 1 x M63 + 1 x M20 – Top entries: 1 x M63					
3-pole switch	S300	CF60B	112	646.6	SWD250S300H
4-pole switch	S400	CF60B	112	646.6	SWD250S400H

Controls

CALL POINTS STATIONS AND AUDIO SIGNALING DEVICES - INCREASED SAFETY

SWD Series 20, 32, 63, 100, 125, 160 and 250 Amp Isolator Switches, Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Technical Data								
Main Contacts		20 Amps	32 Amps	63 Amps	100 Amps	125 Amps	160 Amps	250 Amps
Rated Insulation Voltage (Ui)		800 V	800 V	800 V	800 V	800 V	800 V	800 V
Rated Operating Voltage (Ue)		415 V/500 V/ 690 V	415 V/500 V/ 690 V	415 V/500 V/ 690 V	415 V/500 V/ 690 V	415 V/500 V/ 690 V	415 V/500 V/ 690 V	415 V/500 V/ 690 V
Rated Operating Current (Ie)		25 A	32 A/32 A/ 25 A	63 A/63 A/ 40 A	100 A	125 A	160 A/160 A/ 125 A	250 A/250 A/ 200 A
Rated Surge Voltage (Uimp)		8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV
Short Circuit Resistance		50 kA (with fuse)	50 kA (with fuse)	50 kA (with fuse)	100 kA (with fuse)	63 kA (with fuse)	80 kA (with fuse)	50 kA (with fuse)
Switching Capacity								
AC 21 A	415 V	25 A	32 A	63 A	100 A	125 A	160 A	250 A
	500 V	25 A	32 A	63 A	100 A	125 A	160 A	250 A
	690 V	25 A	32 A	63 A	100 A	125 A	160 A	200 A
AC 22 A	415 V	25 A	32 A	63 A	100 A	125 A	160 A	250 A
	500 V	25 A	32 A	63 A	100 A	125 A	125 A	250 A
	690 V	25 A	32 A	63 A	63 A	80 A	100 A	125 A
AC 23 A	230 V	25 A	–	–	–	–	–	–
	415 V	25 A	32 A	63 A	100 A	125 A	125 A	250 A
	500 V	25 A	25 A	63 A	80 A	100 A	100 A	200 A
	690 V	25 A	25 A	40 A	63 A	80 A	80 A	100 A
AC 23 A Motor Power (kW)	230 V	–	–	–	–	–	–	–
	415 V	11 kW	15 kW	30 kW	45 kW	55 kW	75 kW	132 kW
	500 V	11 kW	15 kW	30 kW	45 kW	55 kW	75 kW	140 kW
	690 V	15 kW	18.5 kW	30 kW	45 kW	75 kW	75 kW	90 kW
DC 21	24/48 V, 25 A ①	–	–	–	–	–	–	220 V, 250 A ①
	–	–	–	–	–	800 V, 125 A ①	800 V, 125 A ①	440 V, 200 A ①
	–	–	–	–	–	–	–	500 V, 200 A ①
DC 22	–	–	–	–	–	–	–	220 V, 250 A ①
	–	–	–	–	–	–	–	440 V, 200 A ①
	–	–	–	–	–	–	–	500 V, 200 A ①
DC 23	–	–	–	–	–	–	–	220 V, 250 A ①
	–	–	–	–	–	–	–	440 V, 200 A ①
	–	–	–	–	–	–	–	500 V, 200 A ①
Flexible Termination		0.75 to 6 mm ²	16 mm ²	4 to 35 mm ²	4 to 50 mm ²	4 to 50 mm ²	4 to 50 mm ²	95 mm ²
Solid Termination		10 mm ²	16 mm ²	50 mm ²	70 mm ²	70 mm ²	70 mm ²	150 mm ²
Auxiliary Contacts								
Rated Operating Voltage (Ue)		230 V/400 V	250 V	250 V	250 V	250 V	250 V	230 V/400 V
Rated Operating Current (Ie)		6 A/4 A	5 A	5 A	5 A	5 A	5 A	4 A/3 A
Switching Capacity								
AC 15		6 A/230 V	5 A/250 V	5 A/250 V	5 A/250 V	5 A/250 V	5 A/250 V	4 A/230 V - 3 A/400 V
DC 14		–	–	–	–	–	–	1 A/24 V - 0.2 A/48 V
Flexible Termination		2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²

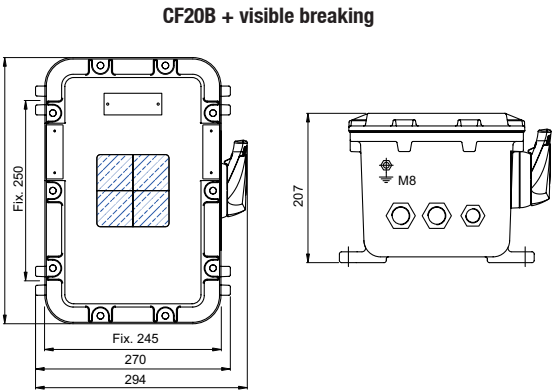
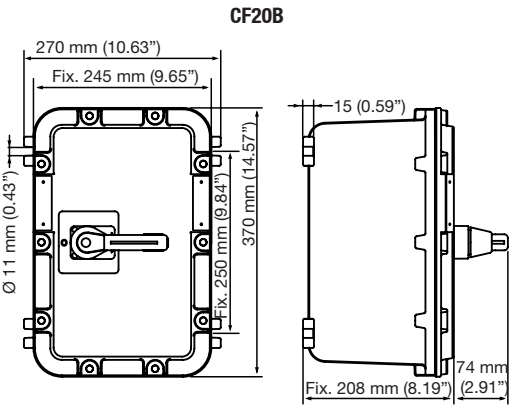
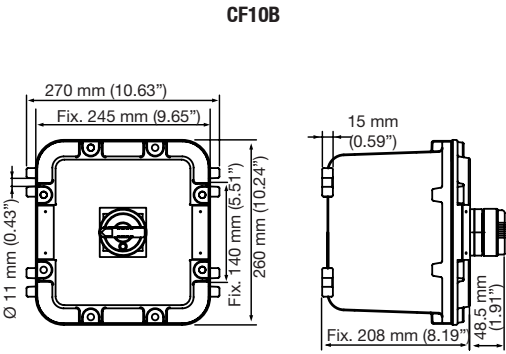
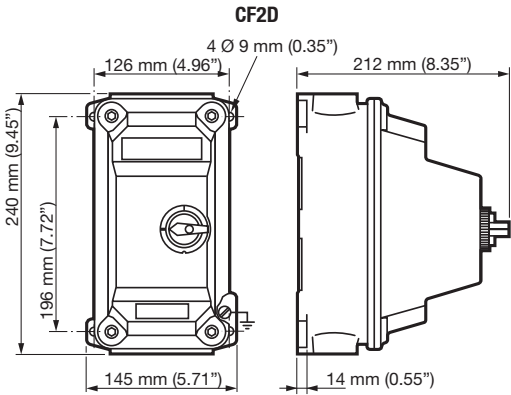
① Two contacts connected in series.

SWD Series 20, 32, 63, 100, 125, 160 and 250 Amp Isolator Switches

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Dimensions in Millimeters



CALL POINTS STATIONS AND AUDIO SIGNALING DEVICES - INCREASED SAFETY

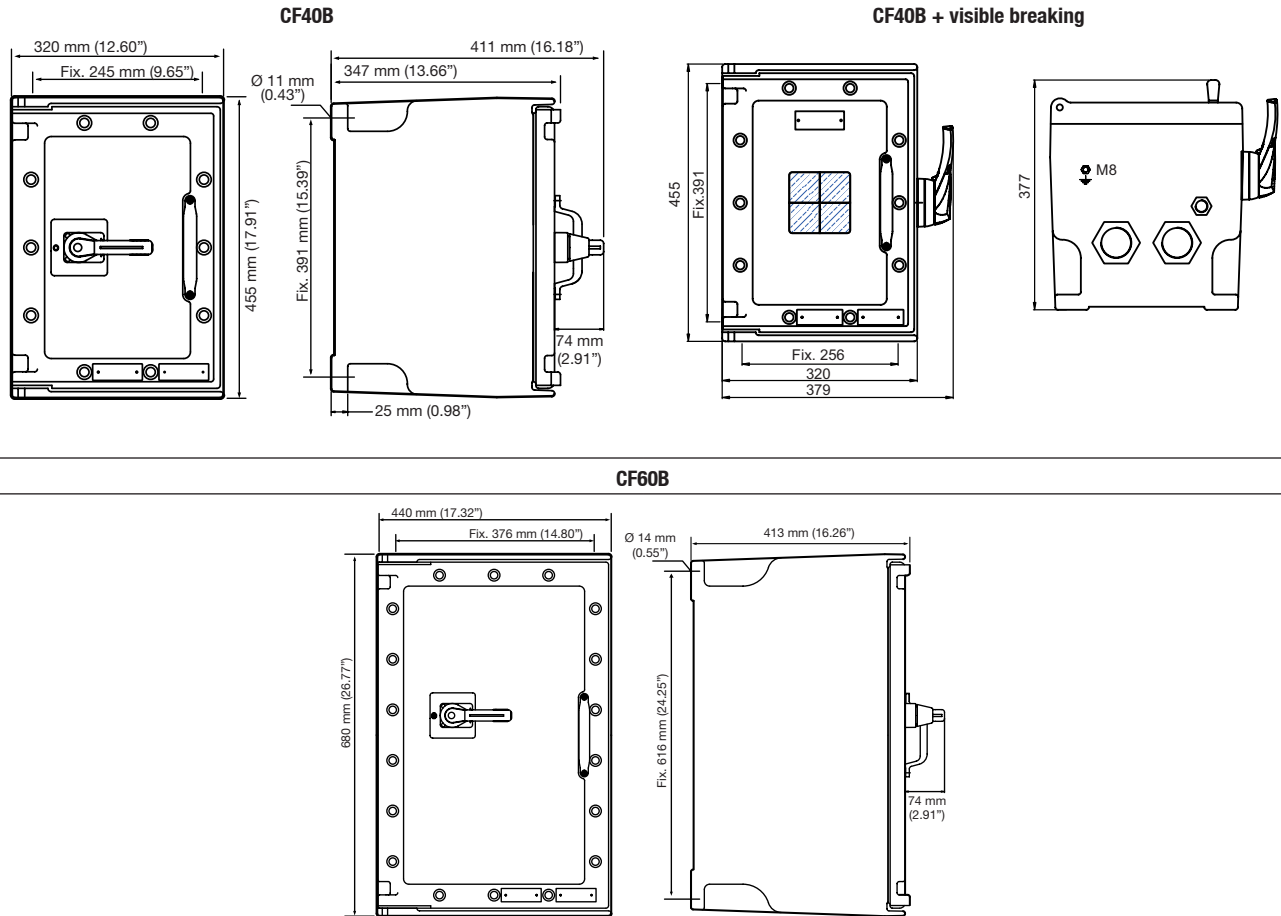
Controls

SWD Series 20, 32, 63, 100, 125, 160 and 250 Amp Isolator Switches

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Dimensions in Millimeters



Controls

CALL POINTS STATIONS AND AUDIO SIGNALING DEVICES - INCREASED SAFETY

KL Series Audio Signaling Devices

Flameproof

Zone 1 and 2
Gas (G)

Applications

- Audio alarm to signal an evacuation due to fire, gas or other dangers.

Features

- Klaxon type warning horn.
- Flameproof enclosure.
- Operation:
 - Operating cycle: 5 minutes maximum
 - Pause cycle: 15 minutes minimum
 - Maximum 5 consecutive cycles
 - Predicts temporary pause cycles
- One M20 bottom cable entry.
- M6 earth stud.

Standard Materials

- Enclosure: marine grade aluminum

Standard Finishes

- Enclosure: gray paint

Certifications and Complies

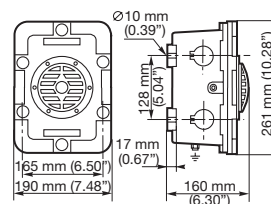
◆ ATEX Certification

- **Certification Type: KL1X**
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ex II 2 G
 - Type of Protection: Ex d IIB
 - Temperature class: T6
 - Ambient Temperature: -20 °C to +40 °C
 - CE Declaration of Conformity: 50216
 - ATEX Certificate: LCIE 00 ATEX 6018
 - Index of Protection according EN/IEC 60529: IP55
 - Impact Resistance (shock): IK10
 - Internal Volume: $\leq 2 \text{ dm}^3$ (2 liters)



Horn

Dimensions in Millimeters



Controls

CALL POINTS STATIONS AND AUDIO SIGNALING DEVICES - INCREASED SAFETY

Catalog Numbering Guide

KL
|
KL Series
Horn
Zone 1 and 2
ATEX Certified

C02D
|
Voltage:
02D - 24 Vdc
02A - 24 Vac
04D - 48 Vdc
04A - 48 Vac
11A - 110 Vac
23A - 220-230 Vac

E
|
Option:
E - Electronic

Series	Voltage	Frequency	Sound Volume at 2m	Sound Frequency (Hz)	Amp Rating	Weight kg	Volume dm ³	Catalog Number
KL	24 Vdc	0 Hz	80 dB mini	420	0.75	5.2	13	KL02D
KL	24 Vac	50/60 Hz	80 dB mini	420	0.75	5.2	13	KL02A
KL	48 Vdc	0 Hz	80 dB mini	420	0.75	5.2	13	KL04D
KL	48 Vac	50 Hz	80 dB mini	420	0.75	5.2	13	KL04A
KL	110 Vac	50/60 Hz	80 dB mini	420	0.13	5.2	13	KL11A
KL	220/230 Vac	50/60 Hz	80 dB mini	420	0.13	5.2	13	KL23A

Shaded catalog numbers are normally stocked items. All other items are made to order.

DM Series Motor Starters

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- DM Series motor starters are used in areas where hazardous materials are handled or stored.
- These units provide disconnecting means and thermal overload protection.

Features

- Three pole contactor.
- Thermal overload relay with stop/reset push button.
- Start push button.
- Rated voltage 400/415 Vac, 50/60 Hz AC-3 category.
- Yellow laminated plastic legend plate with black lettering.
- Internal earth terminal: 2 x 4 mm².
- External ground terminal: M5 for Ex d IIB version.
- Earth crossing terminal: M8 for Ex d IIC version.
- 1 x M20 entry on top.
- 2 x M20 entries at bottom with one blanking plug.

Standard Materials

- Housing: gray painted marine grade aluminum alloy (RAL7038).
- Cover bolts: stainless steel

Certifications and Compliances

◆ ATEX Certification

- **Certification Type CF2D**
 - Gas: Zone 1 and 2,
 - Conforming to ATEX 94/9/CE: II 2 G
 - Type of Protection: Ex d IIB
 - Temperature class: T4 (ta +40 °C) or T3 (ta +55 °C)
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: II 2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T195 °C
 - Ambient Temperature: -20 °C to +55 °C
 - CE Declaration of Conformity: 50254
 - ATEX Certificate: LCIE 03 ATEX 6061X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
 - Internal Volume: > 2 dm³ (2 liters)
- **Certification Type CF1B**
 - Gas: Zone 1 and 2,
 - Conforming to ATEX 94/9/CE: II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T4 (ta +40 °C) or T3 (ta +55 °C)
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: II 2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T195 °C
 - Ambient Temperature: -20 °C to +55 °C
 - CE Declaration of Conformity: 50257
 - ATEX Certificate: LCIE 03 ATEX 6044X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
 - Internal Volume: > 2 dm³ (2 liters)



Ex d IIB Version – Type CF2D



Ex d IIC Version – Type CF1B

◆ EURASEC Certification

- **Certification Type CF2D**
 - EURASEC RU C-FR. ГБ 05.B.0091
- **Certification Type CF1B**
 - EURASEC RU C-FR. ГБ 05.B.00911

Related Products

- Cable glands must be ordered separately. See *Fittings Section*.

Controls

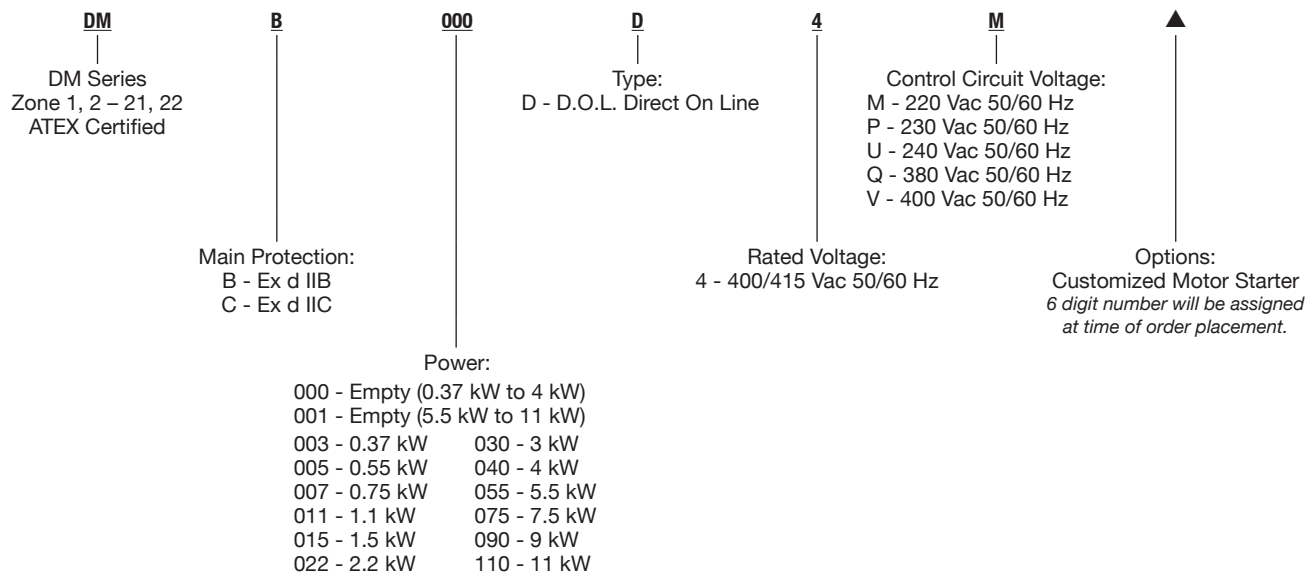
FLAMEPROOF Ex d ZONE 1 RATED MOTOR STARTERS

DM Series Motor Starters

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Catalog Numbering Guide



Controls

FLAMEPROOF Ex d ZONE 1 RATED MOTOR STARTERS

Type	Protection	Description	Weight kg	Volume dm ³	Catalog Number
Enclosure for Housing Contactor with Overload Relay up to 11 kW Ex d IIB T4 (for Ta +40 °C) or T3 (for Ta+55 °C)					
CF2D	IIB	For 0.37kW to 4 kW (9 Amp, 400/415 Vac max.) contactor and thermal overload relay not supplied (LC1D09 and LRD – from Schneider Electric ①)	4.0	14	DMB000D
CF2D	IIB	For 5.5kW to 11 kW (25 Amp, 400/415 Vac max.) contactor and thermal overload relay not supplied (LC1D25 and LRD – from Schneider Electric ①)	4.0	14	DMB001D
Enclosure Fitted and Prewired with Contactor and Thermal Overload Relay					
CF2D	IIB	For 5.5 kW 400/415 Vac Motor Coil 230 Vac Fitted with contactor LC1-D25 P7 and thermal overload relay LRD-16	4.5	14	DMB055D4P
Enclosure for Housing Contactor with Overload Relay up to 11 kW Ex d IIC T4 (for Ta +40 °C) or T3 (for Ta +55 °C)					
CF1B	IIC	For 0.37kW to 4 kW (9 Amp, 400/415 Vac max.) contactor and thermal overload relay not supplied (LC1D09 and LRD – from Schneider Electric ①)	4.0	14	DMC000D
CF1B	IIC	For 5.5kW to 11 kW (25 Amp, 400/415 Vac max.) contactor and thermal overload relay not supplied (LC1D25 and LRD – from Schneider Electric ①)	4.0	14	DMC001D
Enclosure Fitted and Prewired with Contactor and Thermal Overload Relay					
CF1B	IIC	For 5.5 kW 400/415 Vac Motor Coil 230 Vac Fitted with contactor LC1-D25 P7 and thermal overload relay LRD-16	4.5	14	DMC055D4P

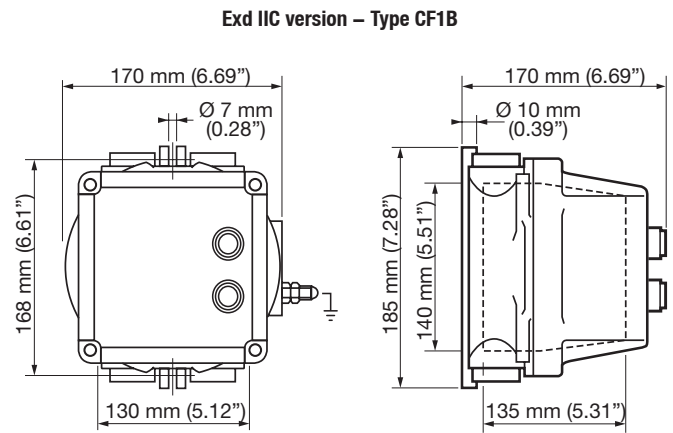
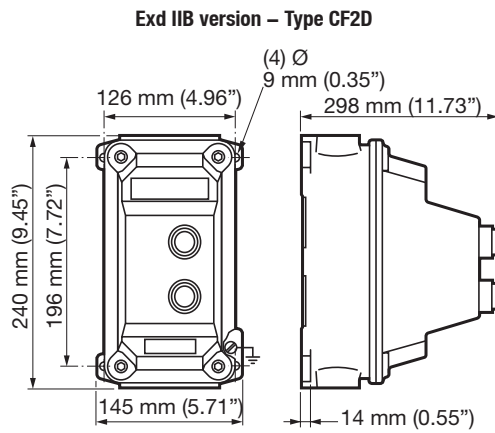
① Schneider Electric is a registered trademark Schneider Electric SA.

DM Series Motor Starter Dimensions

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Dimensions in Millimeters



Controls

FLAMEPROOF EX d ZONE 1 RATED MOTOR STARTERS

MS Series Motor Starters

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Applications

- These motor starters are used in areas where hazardous material are handled or stored. These units provide:
 - Disconnecting means
 - Undervoltage protection
 - Circuit protection
 - Motor running protection
 - Thermal time delay overload protection

Features

- Magnetic circuit breaker protects equipment and personnel and eliminates replacement of fuses.
- Three pole contactor.
- Thermal overload relay with manual reset push button.
- Green pilot light “Running/ON”.
- Rated voltage 400/415 Vac 50/60 Hz AC-3 category.
- Control circuit supplied via a transformer fed between phases.
- Direct entries or indirect entries with Ex e box allows use of cable gland with elastomer seal.
- Type 2 coordinated protection (IEC 60947-4-1) has the following benefits:
 - Safety - limiting the energy delivered to the short circuit ensures the safest applications for personnel, facilities and equipment.
 - Reduced costs - preventing short circuit damage to components minimizes labor and replacement costs.
 - Increased productivity - as component replacement due to short circuits is minimized, so are interruptions to production.
- Direct ammeter for 0.37 kW to 2.2 kW versions. Ammeter with current transformer for 3 kW to 75 kW versions.

Standard Materials

- Body and cover:
 - Gray painted marine grade aluminum alloy (RAL 7038)
 - Cover bolts: stainless steel
 - Hinges: stainless steel
- Ex e box for indirect entries:
 - Gray (RAL 7038) painted aluminum alloy (size 2 and 6) or stainless steel (size 8 and 11)
 - Cover bolts: stainless steel

Standard Finish

- Corrosion resistant gray powder coat epoxy

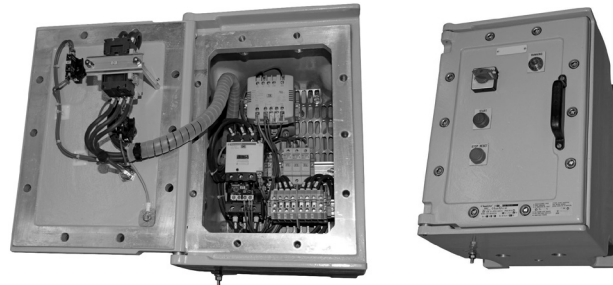
Options

- Available up to 300 kW - contact your local representative.

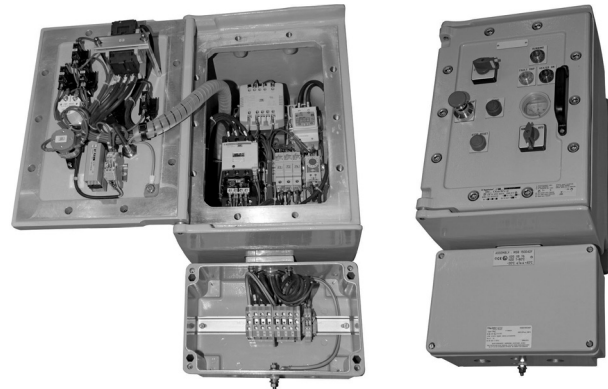
Certifications and Compliances

◆ ATEX/ IECEx Certification

- **Certification Type CF**
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C



Ex d Version



Ex de Version

- Ambient Temperature:
 - CF 60: -50 °C to +55 °C
 - CF 20, 40, 50: -40 °C to +55 °C
 - CF 30: -20 °C to +55 °C
- CE Declaration of Conformity: 50229
- ATEX Certificate: LCIE 02 ATEX 6057X
- IECEx Certificate: IECEx LCI 08.0023X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10
- Internal Volume: > 2 dm³ (2 liters)

◆ EURASEC Certification

- EURASEC RU C-FR. ГБ 05.B.00911

MS Series Motor Starters

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Catalog Numbering Guide

MS Series: MS - Motor Starters Zone 1 ATEX/IECEx Certified	B Classification: B - Ex d IIB H - Ex d IIB + H ₂	003 Power kW: 003 - 0.37 005 - 0.55 007 - 0.75 011 - 1.1 015 - 1.5 022 - 2.2 030 - 3 040 - 4 055 - 5.5 075 - 7.5	D Type: D - D.O.L. Direct On Line	4 Rated Voltage: 4 - 400/415 V 50/60 Hz	2 Control Circuit Voltage: 2 - 230 Vac 50/60 Hz via Transformer	A Options: A - Ammeter B - Indirect entries with Ex e Box E - Local emergency Stop H - Anti-condensation (Heater, Thermostat, Blue pilot light) S - Selector switch Hand/Off/Auto T - Fault trip signal with yellow pilot light F - Full Options (A,B,E,H,S,T)
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Controls

FLAMEPROOF Ex d ZONE 1 RATED MOTOR STARTERS

MS Series Motor Starters

Flameproof

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Motor Capacity AC–3 to 415 Vac	Size	Terminals Cross Section mm ²	Cable Entries at Bottom	Weight kg	Volume dm ³	Catalog Number
Standard Version						
<i>Fitted with magnetic circuit breaker, contactor with overload relay, Start/Stop buttons and green pilot light. (1 x M20 plugged).</i>						
0.37 kW	1	2.5	2 x M20 + 1 M20	16	25	MSB003D42
0.55 kW	1	2.5	2 x M20 + 1 M20	16	25	MSB005D42
0.75 kW	1	2.5	2 x M20 + 1 M20	16	25	MSB007D42
1.1 kW	1	2.5	2 x M20 + 1 M20	16	25	MSB011D42
1.5 kW	1	2.5	2 x M20 + 1 M20	16	25	MSB015D42
2.2 kW	1	2.5	2 x M20 + 1 M20	16	25	MSB022D42
3 kW	1	2.5	2 x M20 + 1 M20	16	25	MSB030D42
4 kW	1	2.5	2 x M20 + 1 M20	16	25	MSB040D42
5.5 kW	5	4.0	2 x M25 + 1 M20	56	126	MSB055D42
7.5 kW	5	6.0	2 x M25 + 1 M20	56	126	MSB075D42
9 kW	5	10.0	2 x M25 + 1 M20	56	126	MSB090D42
11 kW	5	10.0	2 x M25 + 1 M20	56	126	MSB110D42
15 kW	5	16.0	2 x M32 + 1 M20	56	126	MSB150D42
18.5 kW	7	25.0	2 x M32 + 1 M20	72	236	MSB185D42
22 kW	7	25.0	2 x M32 + 1 M20	72	236	MSB220D42
30 kW	7	35.0	2 x M40 + 1 M20	72	236	MSB300D42
37 kW	9	50.0	2 x M40 + 1 M20	132	370	MSB370D42
45 kW	9	70.0	2 x M50 + 1 M20	132	370	MSB450D42
55 kW	9	95.0	2 x M50 + 1 M20	132	370	MSB550D42
75 kW	9	120.0	2 x M63 + 1 M20	132	370	MSB750D42
Full Options Version						
<i>Standard version + HOA selector switch, local emergency stop, fault trip signal, ammeter, anti-condensation and indirect entries. (1 x M20 plugged.)</i>						
0.37 kW	4	2.5	2 x M20 + 1 x M20	51	700	MSB003D42F
0.55 kW	4	2.5	2 x M20 + 1 x M20	51	700	MSB005D42F
0.75 kW	4	2.5	2 x M20 + 1 x M20	51	700	MSB007D42F
1.1 kW	4	2.5	2 x M20 + 1 x M20	51	700	MSB011D42F
1.5 kW	4	2.5	2 x M20 + 1 x M20	51	700	MSB015D42F
2.2 kW	4	2.5	2 x M20 + 1 x M20	51	700	MSB022D42F
3 kW	4	2.5	2 x M20 + 1 x M20	51	700	MSB030D42F
4 kW	4	2.5	2 x M20 + 1 x M20	51	700	MSB040D42F
5.5 kW	6	4.0	2 x M25 + 1 x M20	62	700	MSB055D42F
7.5 kW	6	6.0	2 x M25 + 1 x M20	62	700	MSB075D42F
9 kW	6	10.0	2 x M25 + 1 x M20	62	700	MSB090D42F
11 kW	6	10.0	2 x M25 + 1 x M20	62	700	MSB110D42F
15 kW	6	16.0	2 x M32 + 1 x M20	62	700	MSB150D42F
18.5 kW	8	25.0	2 x M32 + 1 x M20	81	700	MSB185D42F
22 kW	8	25.0	2 x M32 + 1 x M20	81	700	MSB220D42F
30 kW	8	35.0	2 x M40 + 1 x M20	81	700	MSB300D42F
37 kW	10	50.0	2 x M40 + 1 x M20	145	700	MSB370D42F
45 kW	10	70.0	2 x M50 + 1 x M20	145	700	MSB450D42F
55 kW	10	95.0	2 x M50 + 1 x M20	145	700	MSB550D42F
75 kW	10	120.0	2 x M63 + 1 x M20	145	700	MSB750D42F

Controls

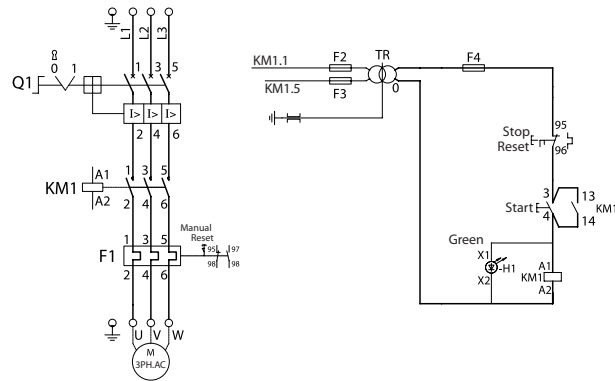
FLAMEPROOF Ex d ZONE 1 RATED MOTOR STARTERS

MS Series Motor Starter Wiring Diagram and Dimensions

Flameproof

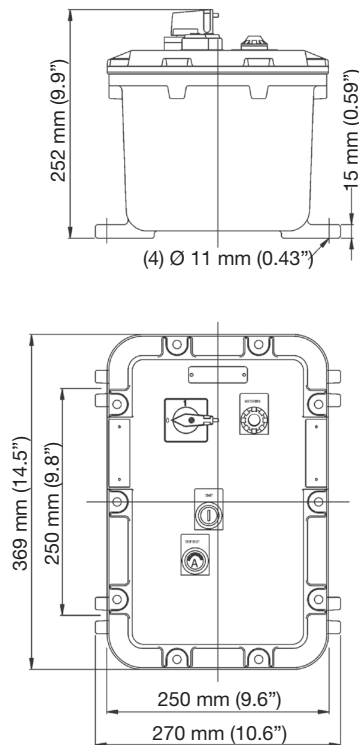
Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Wiring Diagram

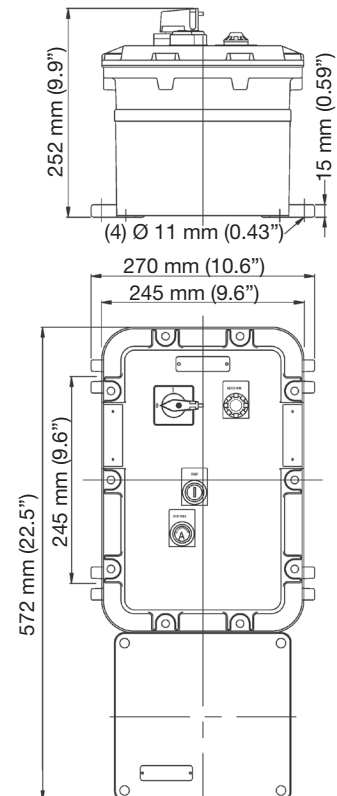


Dimensions in Millimeters

Size 1: CF20B



Size 2: CF20B + CAe1



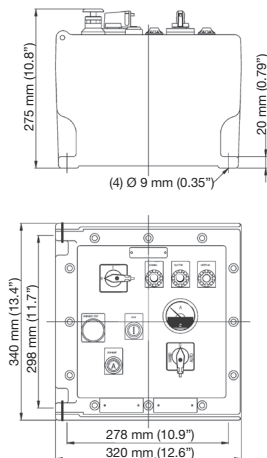
MS Series Motor Starter Dimensions

Flameproof

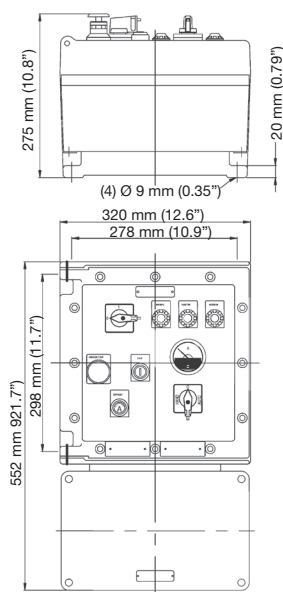
Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Dimensions in Millimeters

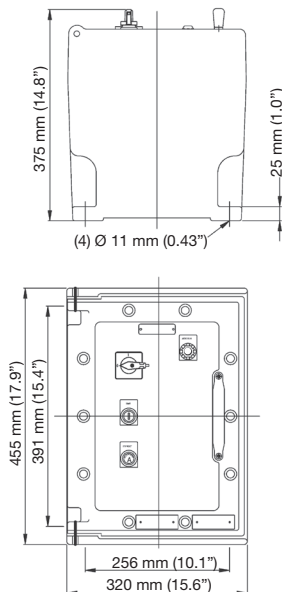
Size 3: CF30B



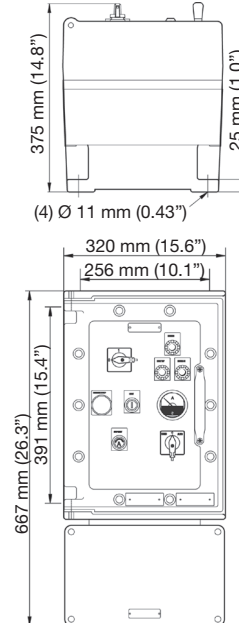
Size 4: CF30B + CAe2



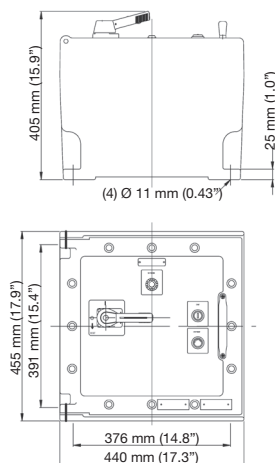
Size 5: CF40B



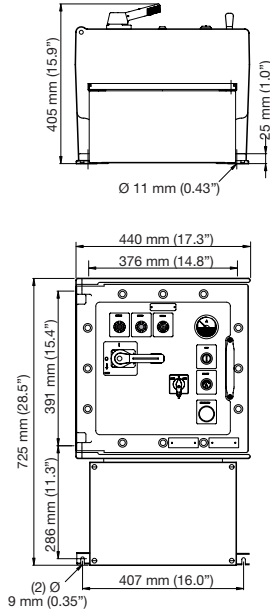
Size 6: CF40B + CAe2



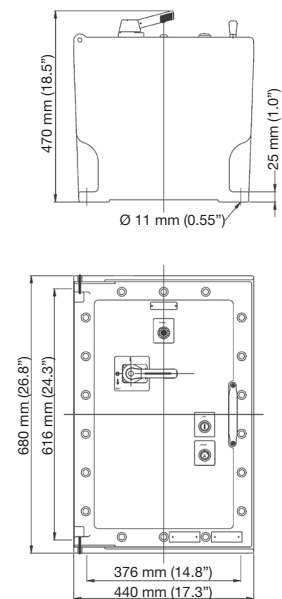
Size 7: CF50B



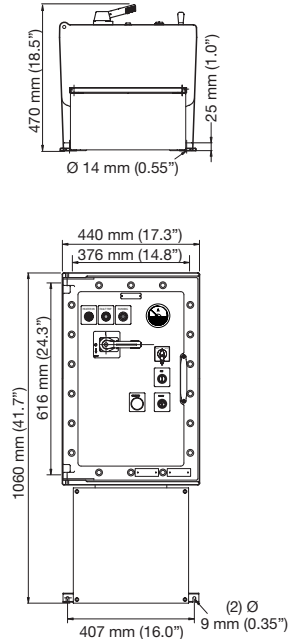
Size 8: CF50B + JBe47



Size 9: CF60B



Size 10: CF60B + JBe55



FLAMEPROOF Ex d ZONE 1 RATED MOTOR STARTERS

Controls

