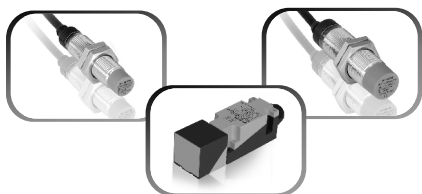


Long Sensing Range Inductive Proximity Sensor

Features

- Short-circuit protection, reversed polarity protection and overload protection (DC)
- Long life-span and high reliability
- Red LED indicator to check output status
- Extended sensing distance to meet different application needs



M8 series –DC / E-01

M12 series –DC / E-03

M12 series –AC / E-06

M18 series–DC / E-07

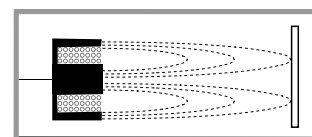
M18 series–AC / E-10

M30 series–DC / E-11

M30 series–AC / E-13

BX, KE series–DC / E-14

BX,KE series–AC / E-15



Long sensing distance



PICTURE

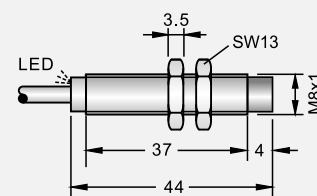
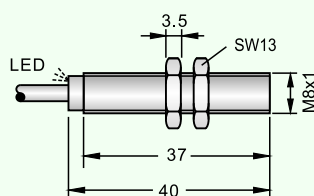
M8x1, L40

CE
M8x1, L44

CE

DC-3 wires NPN N.O.	IBT8-LS02NA-D3Y2	* 01	IBT8-LN03NA-D3Y2	* 01
DC-3 wires NPN N.C.	IBT8-LS02NB-D3Y2	* 02	IBT8-LN03NB-D3Y2	* 02
DC-3 wires PNP N.O.	IBT8-LS02PA-D3Y2	* 03	IBT8-LN03PA-D3Y2	* 03
DC-3 wires PNP N.C.	IBT8-LS02PB-D3Y2	* 04	IBT8-LN03PB-D3Y2	* 04
DC-2 wires N.O.	IBT8-LS02LA-D2Y2	* 18	IBT8-LN03LA-D2Y2	* 18
DC-2 wires N.C.	IBT8-LS02LB-D2Y2	* 19	IBT8-LN03LB-D2Y2	* 19
Rated sensing distance	2mm		3mm	
Mounting	shield		non-shield	
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current	<0.01mA(3 wires) ; <0.8mA(2 wires)			
Setting distance	0...1.4mm		0...2.1mm	
Standard target	Iron 8x8x1mm		Iron 9x9x1mm	
Frequency	800Hz		700Hz	
Consumption	≤15mA			
Load current	200mA			
Voltage drop(V _p)	≤1.8V(2 wires : Load current 100mA < 5V)			
Hysteresis	1...15%			
Repeatability	≤2%			
Display	Red LED			
Protection Circuit	Short circuit protection, reversed polarity protection and overload protection			
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP67			
Connection	Cable: φ3.2mm 2M			
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark

01 . 02 . 03 . 04 . 18 . 19—NO of wiring diagram(refers to page 12...15)

PICTURE

M8x1, L55



CE

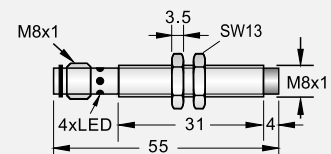
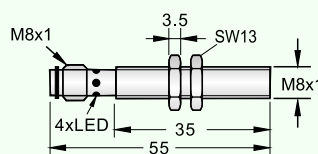
M8x1, L55



CE

DC-3 wires NPN N.O.	IBT8-LS02NA-D3YV2	* 27	IBT8-LN03NA-D3YV2	* 27
DC-3 wires NPN N.C.	IBT8-LS02NB-D3YV2	* 27	IBT8-LN03NB-D3YV2	* 27
DC-3 wires PNP N.O.	IBT8-LS02PA-D3YV2	* 28	IBT8-LN03PA-D3YV2	* 28
DC-3 wires PNP N.C.	IBT8-LS02PB-D3YV2	* 28	IBT8-LN03PB-D3YV2	* 28
DC-2 wires N.O.	_____		_____	
DC-2 wires N.C.	_____		_____	
Rated sensing distance	2mm		3mm	
Mounting	shield		non-shield	
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current	<0.01mA			
Setting distance	0...1.4mm		0...2.1mm	
Standard target	Iron 8x8x1mm		Iron 9x9x1mm	
Frequency	800Hz		700Hz	
Consumption	≤15mA			
Load current	200mA			
Voltage drop(V _p)	≤1.8V			
Hysteresis	1...15%			
Repeatability	≤2%			
Display	Red LED			
Protection Circuit	Short circuit protection, reversed polarity protection and overload protection			
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP67			
Connection	M8 connector, LEDx4			
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark

27 . 28—NO of wiring diagram(refers to page 12...15)

PICTURE

M12x1, L50



CE

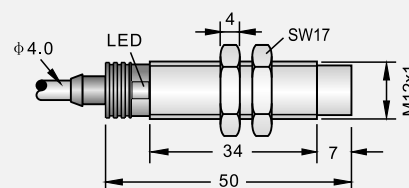
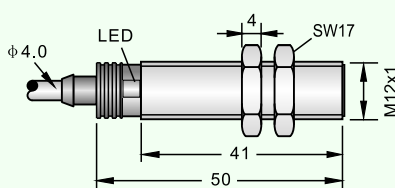
M12x1, L50



CE

DC-3 wires NPN N.O.	IBT12-LS04NA-D3Y2	* 01	IBT12-LN06NA-D3Y2	* 01
DC-3 wires NPN N.C.	IBT12-LS04NB-D3Y2	* 02	IBT12-LN06NB-D3Y2	* 02
DC-3 wires PNP N.O.	IBT12-LS04PA-D3Y2	* 03	IBT12-LN06PA-D3Y2	* 03
DC-3 wires PNP N.C.	IBT12-LS04PB-D3Y2	* 04	IBT12-LN06PB-D3Y2	* 04
DC-2 wires N.O.	IBT12-LS04LA-D2Y2	* 18	IBT12-LN06LA-D2Y2	* 18
DC-2 wires N.C.	IBT12-LS04LB-D2Y2	* 19	IBT12-LN06LB-D2Y2	* 19
Rated sensing distance	4mm		6mm	
Mounting	shield		non-shield	
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current	<0.01mA(3 wires) ; <0.8mA(2 wires)			
Setting distance	0...2.8mm		0...4.2mm	
Standard target	Iron 12x12x1mm		Iron 18x18x1mm	
Frequency	600Hz		500Hz	
Consumption	≤15mA			
Load current	200mA			
Voltage drop(V _p)	≤1.8V(2 wires : Load current 100mA < 5V)			
Hysteresis	1...15%			
Repeatability	≤2%			
Display	Red LED			
Protection Circuit	Short circuit protection, reversed polarity protection and overload protection			
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP67			
Connection	Cable: φ4mm 2M			
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark

01 . 02 . 03 . 04 . 18 . 19—NO of wiring diagram(refers to page 12...15)

PICTURE

M12x1, L60



CE

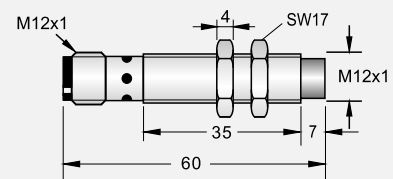
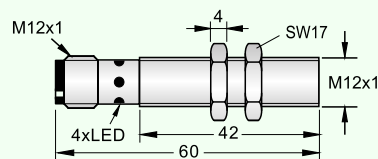
M12x1, L60



CE

DC-3 wires NPN N.O.	IBT12-LS04NA-D4YV1	* 29	IBT12-LN06NA-D4YV1	* 29
DC-3 wires NPN N.C.	IBT12-LS04NB-D4YV1	* 30	IBT12-LN06NB-D4YV1	* 30
DC-3 wires PNP N.O.	IBT12-LS04PA-D4YV1	* 31	IBT12-LN06PA-D4YV1	* 31
DC-3 wires PNP N.C.	IBT12-LS04PB-D4YV1	* 32	IBT12-LN06PB-D4YV1	* 32
DC-2 wires N.O.	IBT12-LS04LA-D4YV1	* 37	IBT12-LN06LA-D4YV1	* 37
DC-2 wires N.C.	IBT12-LS04LB-D4YV1	* 38	IBT12-LN06LB-D4YV1	* 38
Rated sensing distance	4mm		6mm	
Mounting	shield		non-shield	
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current	<0.01mA(3 wires) ; <0.8mA(2 wires)			
Setting distance	0...2.8mm		0...4.2mm	
Standard target	Iron 12x12x1mm		Iron 18x18x1mm	
Frequency	600Hz		500Hz	
Consumption	≤15mA			
Load current	200mA			
Voltage drop(V _p)	≤1.8V(2 wires : Load current 100mA < 5V)			
Hysteresis	1...15%			
Repeatability	≤2%			
Display	Red LED			
Protection Circuit	Short circuit protection, reversed polarity protection and overload protection			
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP67			
Connection	M12 connector, LEDx4			
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark

29 . 30 . 31 . 32 . 37 . 38—NO of wiring diagram(refers to page 12...15)

PICTURE

M12x1, L50



CE

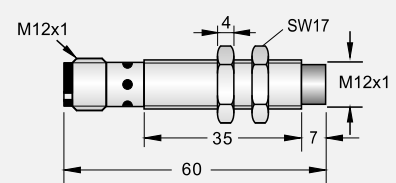
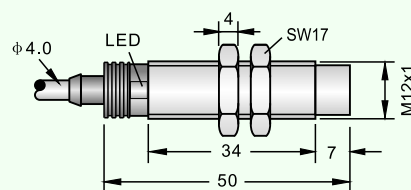
M12x1, L60



CE

DC-2 wires N.O.	IBT12-LN07LA-D2Y2	* 37	IBT12-LN07LA-D4YV1	* 37
DC-2 wires N.C.	IBT12-LN07LB-D2Y2	* 38	IBT12-LN07LB-D4YV1	* 38
Rated sensing distance	7mm			
Mounting	non-shield			
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current	<0.8mA(2 wires)			
Setting distance	0...4.9mm			
Standard target	Iron 21x21x1mm			
Frequency	400Hz			
Consumption	≤15mA			
Load current	200mA			
Voltage drop(V _p)	2 wires : Load current 100mA < 5V			
Hysteresis	1...15%			
Repeatability	≤2%			
Display	Red LED			
Protection Circuit	Short circuit protection, reversed polarity protection and overload protection			
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP67			
Connection	Cable: φ4mm 2M		M12 connector, LEDx4	
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark

37 . 38—NO of wiring diagram(refers to page 12...15)

PICTURE

M12x1, L55



CE

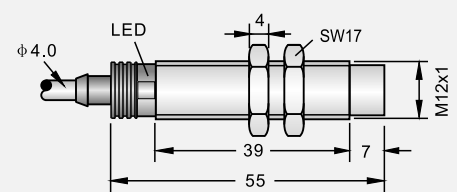
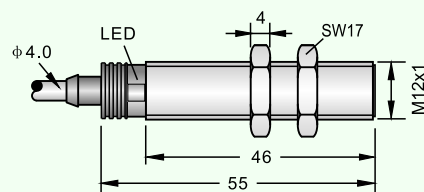
M12x1, L55



CE

AC-2 wires N.O.	IBT12-LS04AA-A2N2	* 20	IBT12-LN06AA-A2N2	* 20
AC-2 wires N.C.	IBT12-LS04AB-A2N2	* 21	IBT12-LN06AB-A2N2	* 21
Rated sensing distance	4mm		6mm	
Mounting	shield		non-shield	
Supply voltage	20...250V AC(50/60Hz)			
Leakage current	≤1.7mA			
Setting distance	0...2.8mm		0...4.2mm	
Standard target	Iron 12x12x1mm		Iron 18x18x1mm	
Frequency	20Hz			
Consumption				
Load current	200mA			
Voltage drop(V _p)	≤8V			
Hysteresis	3...15%			
Repeatability	≤2%			
Display	Red LED			
Protection Circuit				
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP67			
Connection	Cable: φ4mm 2M			
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark

20 . 21—NO of wiring diagram(refers to page 12...15)

PICTURE

M18x1, L55(nickel-plated brass)
M18x1, L65(PBT)



CE

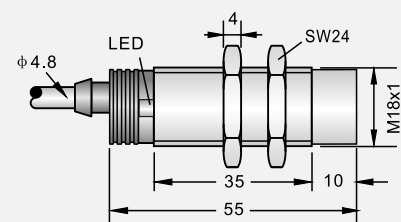
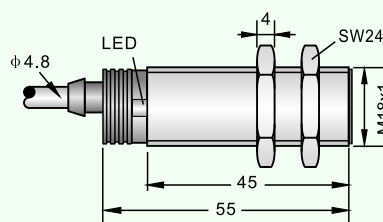
M18x1, L55(nickel-plated brass)
M18x1, L65(PBT)



CE

DC-3 wires NPN N.O.	IBT18-LS08NA-D3Y2	IPT18-LS08NA-D3Y2	* 01	IBT18-LN12NA-D3Y2	IPT18-LN12NA-D3Y2	* 01
DC-3 wires NPN N.C.	IBT18-LS08NB-D3Y2	IPT18-LS08NB-D3Y2	* 02	IBT18-LN12NB-D3Y2	IPT18-LN12NB-D3Y2	* 02
DC-3 wires PNP N.O.	IBT18-LS08PA-D3Y2	IPT18-LS08PA-D3Y2	* 03	IBT18-LN12PA-D3Y2	IPT18-LN12PA-D3Y2	* 03
DC-3 wires PNP N.C.	IBT18-LS08PB-D3Y2	IPT18-LS08PB-D3Y2	* 04	IBT18-LN12PB-D3Y2	IPT18-LN12PB-D3Y2	* 04
DC-2 wires N.O.	IBT18-LS08LA-D2Y2	IPT18-LS08LA-D2Y2	* 18	IBT18-LN12LA-D2Y2	IPT18-LN12LA-D2Y2	* 18
DC-2 wires N.C.	IBT18-LS08LB-D2Y2	IPT18-LS08LB-D2Y2	* 19	IBT18-LN12LB-D2Y2	IPT18-LN12LB-D2Y2	* 19
Rated sensing distance	8mm			12mm		
Mounting	shield			non-shield		
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max					
Leakage current	<0.01mA(3 wires) ; <0.8mA(2 wires)					
Setting distance	0...5.6mm			0...8.4mm		
Standard target	Iron 24x24x1mm			Iron 36x36x1mm		
Frequency	400Hz			350Hz		
Consumption	≤15mA					
Load current	200mA					
Voltage drop(V _p)	≤1.8V(2 wires : Load current 100mA < 5V)					
Hysteresis	1...15%					
Repeatability	≤2%					
Display	Red LED					
Protection Circuit	Short circuit protection, reversed polarity protection and overload protection					
Operating temperature	-25...+70°C(no condensation)					
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times					
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours					
Protection	IP67					
Connection	Cable: φ4.8mm 2M					
Housing material	nickel-plated brass	PBT		nickel-plated brass	PBT	
Sensing face material	PBT					

Dimensional drawing



Remark

01 . 02 . 03 . 04 . 18 . 19—NO of wiring diagram(refers to page 12...15)

PICTURE

M18x1, L73



CE

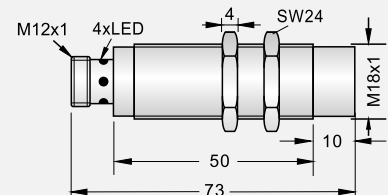
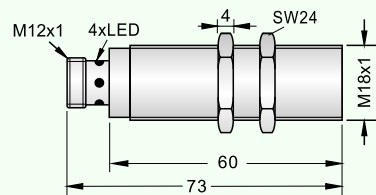
M18x1, L73



CE

DC-3 wires NPN N.O.	IBT18-LS08NA-D4YV1	* 29	IBT18-LN12NA-D4YV1	* 29
DC-3 wires NPN N.C.	IBT18-LS08NB-D4YV1	* 30	IBT18-LN12NB-D4YV1	* 30
DC-3 wires PNP N.O.	IBT18-LS08PA-D4YV1	* 31	IBT18-LN12PA-D4YV1	* 31
DC-3 wires PNP N.C.	IBT18-LS08PB-D4YV1	* 32	IBT18-LN12PB-D4YV1	* 32
DC-2 wires N.O.	IBT18-LS08LA-D4YV1	* 37	IBT18-LN12LA-D4YV1	* 37
DC-2 wires N.C.	IBT18-LS08LB-D4YV1	* 38	IBT18-LN12LB-D4YV1	* 38
Rated sensing distance	8mm		12mm	
Mounting	shield		non-shield	
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current	<0.01mA(3 wires) ; <0.8mA(2 wires)			
Setting distance	0...5.6mm		0...8.4mm	
Standard target	Iron 24x24x1mm		Iron 36x36x1mm	
Frequency	400Hz		350Hz	
Consumption	≤15mA			
Load current	200mA			
Voltage drop(V_p)	≤1.8V(2 wires : Load current 100mA < 5V)			
Hysteresis	1...15%			
Repeatability	≤2%			
Display	Red LED			
Protection Circuit	Short circuit protection, reversed polarity protection and overload protection			
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP67			
Connection	M12 connector, LEDx4			
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark 29 . 30 . 31 . 32 . 37 . 38—NO of wiring diagram(refers to page 12...15)

PICTURE

M18x1, L55(nickel-plated brass)



CE

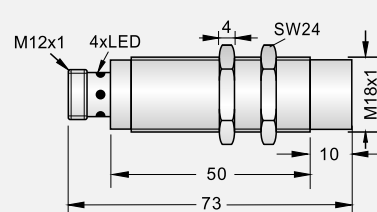
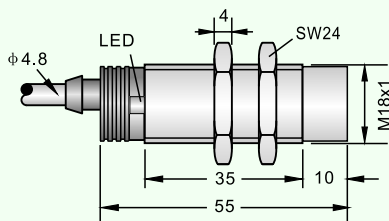
M18x1, L73



CE

DC-3 wires NPN N.O.	IBT18-LN15NA-D3Y2	* 01	IBT18-LN15NA-D3Y2	* 01
DC-3 wires PNP N.O.	IBT18-LN15PA-D3Y2	* 03	IBT18-LN15PA-D3Y2	* 03
Rated sensing distance	15mm			
Mounting	non-shield			
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current	<0.01mA			
Setting distance	0...10.5mm			
Standard target	Iron 45x45x1mm			
Frequency	300Hz			
Consumption	≤15mA			
Load current	200mA			
Voltage drop(V _p)	≤1.8V			
Hysteresis	1...15%			
Repeatability	≤2%			
Display	Red LED			
Protection Circuit	Short circuit protection, reversed polarity protection and overload protection			
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP67			
Connection	Cable: ϕ4mm 2M	M12 connector, LEDx4		
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark

01 . 03 —NO of wiring diagram(refers to page 12...15)

PICTURE

M18x1, L55(nickel-plated brass)
M18x1, L65(PBT)



CE

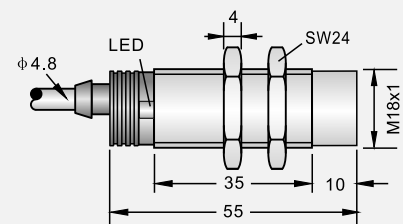
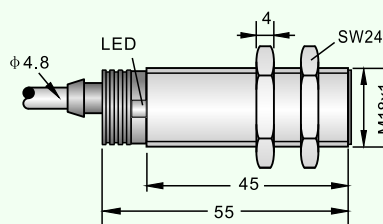
M18x1, L55(nickel-plated brass)
M18x1, L65(PBT)



CE

AC-2 wires N.O.	IBT18-LS08AA-A2N2	IPT18-LS08AA-A2N2	* 20	IBT18-LN12AA-A2N2	IPT18-LN12AA-A2N2	* 20
AC-2 wires N.C.	IBT18-LS08AB-A2N2	IPT18-LS08AB-A2N2	* 21	IBT18-LN12AB-A2N2	IPT18-LN12AB-A2N2	* 21
Rated sensing distance	8mm			12mm		
Mounting	shield			non-shield		
Supply voltage	20...250V AC(50/60Hz)					
Leakage current	≤1.7mA					
Setting distance	0...5.6mm			0...8.4mm		
Standard target	Iron 24x24x1mm			Iron 36x36x1mm		
Frequency	20Hz					
Consumption						
Load current	200mA					
Voltage drop(V _p)	≤8V					
Hysteresis	3...15%					
Repeatability	≤2%					
Display	Red LED					
Protection Circuit						
Operating temperature	-25...+70°C(no condensation)					
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times					
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours					
Protection	IP67					
Connection	Cable: φ4.8mm 2M					
Housing material	nickel-plated brass	PBT		nickel-plated brass	PBT	
Sensing face material	PBT					

Dimensional drawing



Remark

20 . 21—NO of wiring diagram(refers to page 12...15)

PICTURE

M30x1.5, L60(nickel-plated brass)
M30x1.5, L72(PBT)



CE

M30x1.5, L60(nickel-plated brass)
M30x1.5, L72(PBT)



CE

DC-3 wires NPN N.O.

IBT30-LS15NA-D3Y2

IPT30-LS15NA-D3Y2

* 01

DC-3 wires NPN N.C.

IBT30-LS15NB-D3Y2

IPT30-LS15NB-D3Y2

* 02

DC-3 wires PNP N.O.

IBT30-LS15PA-D3Y2

IPT30-LS15PA-D3Y2

* 03

DC-3 wires PNP N.C.

IBT30-LS15PB-D3Y2

IPT30-LS15PB-D3Y2

* 04

DC-2 wires N.O.

IBT30-LS15LA-D2Y2

IPT30-LS15LA-D2Y2

* 18

DC-2 wires N.C.

IBT30-LS15LB-D2Y2

IPT30-LS15LB-D2Y2

* 19

Rated sensing distance

15mm

Mounting

shield

Supply voltage

12...24VDC (10-30VDC) , ripple: 10% max

Leakage current

<0.01mA(3 wires) ; <0.8mA(2 wires)

Setting distance

0...10.5mm

Standard target

Iron 45x45x1mm

Frequency

300Hz

Consumption

≤15mA

Load current

200mA

Voltage drop(V_p)

≤1.8V(2 wires : Load current 100mA < 5V)

Hysteresis

1...15%

Repeatability

≤2%

Display

Red LED

Protection Circuit

Short circuit protection, reversed polarity protection and overload protection

Operating temperature

-25...+70°C(no condensation)

Anti-impact

500m/s²(50G) X、Y、Z direction, each 10 times

Anti-vibration

10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours

Protection

IP67

Connection

Cable: φ4.8mm 2M

Housing material

nickel-plated brass

PBT

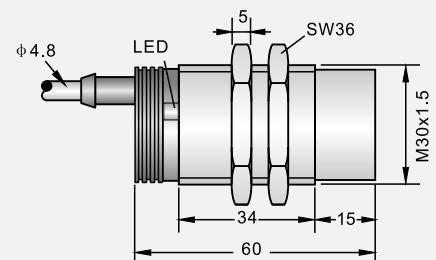
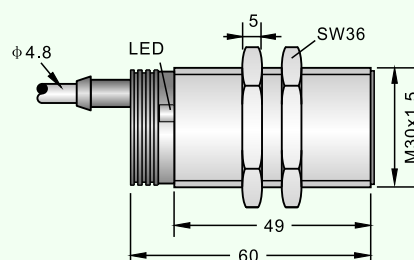
Sensing face material

nickel-plated brass

PBT

PBT

Dimensional drawing



Remark

01 . 02 . 03 . 04 . 18 . 19—NO of wiring diagram (refers to page 12...15)

PICTURE

M30x1.5, L73



CE

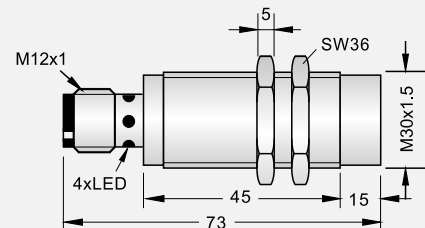
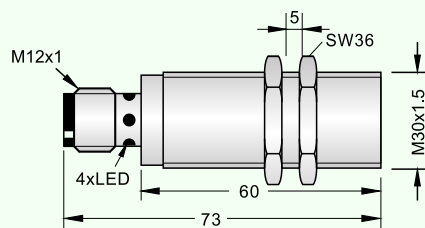
M30x1.5, L73



CE

DC-3 wires NPN N.O.	IBT30-LS15NA-D4YV1	* 29	IBT30-LN25NA-D4YV1	* 29
DC-3 wires NPN N.C.	IBT30-LS15NB-D4YV1	* 30	IBT30-LN25NB-D4YV1	* 30
DC-3 wires PNP N.O.	IBT30-LS15PA-D4YV1	* 31	IBT30-LN25PA-D4YV1	* 31
DC-3 wires PNP N.C.	IBT30-LS15PB-D4YV1	* 32	IBT30-LN25PB-D4YV1	* 32
DC-2 wires N.O.	IBT30-LS15LA-D4YV1	* 37	IBT30-LN25LA-D4YV1	* 37
DC-2 wires N.C.	IBT30-LS15LB-D4YV1	* 38	IBT30-LN25LB-D4YV1	* 38
Rated sensing distance	15mm		25mm	
Mounting	shield		non-shield	
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current	<0.01mA(3 wires) ; <0.8mA(2 wires)			
Setting distance	0...10.5mm		0...17.5mm	
Standard target	Iron 45x45x1mm		Iron 75x75x1mm	
Frequency	300Hz		200Hz	
Consumption	≤15mA			
Load current	200mA			
Voltage drop(V _p)	≤1.8V(2 wires : Load current 100mA < 5V)			
Hysteresis	1...15%			
Repeatability	≤2%			
Display	Red LED			
Protection Circuit	Short circuit protection, reversed polarity protection and overload protection			
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP67			
Connection	M12 connector, LEDx4			
Housing material	nickel-plated brass			
Sensing face material	PBT			

Dimensional drawing



Remark

29 . 30 . 31 . 32 . 37 . 38—NO of wiring diagram(refers to page 12...15)

PICTURE

M30x1.5, L60(nickel-plated brass)
M30x1.5, L72(PBT)



CE

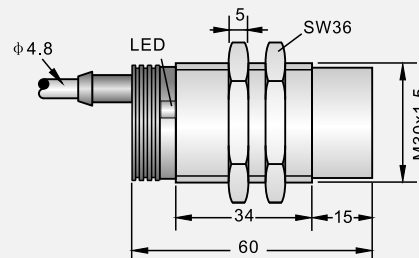
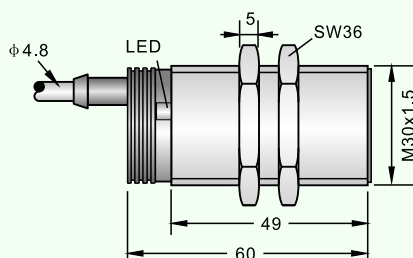
M30x1.5, L60(nickel-plated brass)
M30x1.5, L72(PBT)



CE

AC-2 wires N.O.	IBT30-LS15AA-A2N2	IPT30-LS15AA-A2N2	* 20	IBT30-LN25AA-A2N2	IPT30-LN25AA-A2N2	* 20
AC-2 wires N.C.	IBT30-LS15AB-A2N2	IPT30-LS15AB-A2N2	* 21	IBT30-LN25AB-A2N2	IPT30-LN25AB-A2N2	* 21
Rated sensing distance	15mm			25mm		
Mounting	shield			non-shield		
Supply voltage	20...250V AC(50/60Hz)					
Leakage current	≤1.7mA					
Setting distance	0...10.5mm			0...17.5mm		
Standard target	Iron 45x45x1mm			Iron 75x75x1mm		
Frequency	20Hz					
Consumption						
Load current	200mA					
Voltage drop(V _p)	≤8V					
Hysteresis	3...15%					
Repeatability	≤2%					
Display	Red LED					
Protection Circuit						
Operating temperature	-25...+70°C(no condensation)					
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times					
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours					
Protection	IP67					
Connection	Cable: ϕ 4.8mm 2M					
Housing material	nickel-plated brass	PBT		nickel-plated brass	PBT	
Sensing face material	PBT					

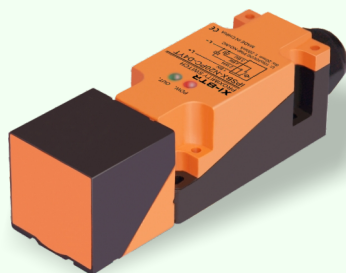
Dimensional drawing



Remark

20 . 21—NO of wiring diagram(refers to page 12...15)

PICTURE



W40xH40xL120

CE

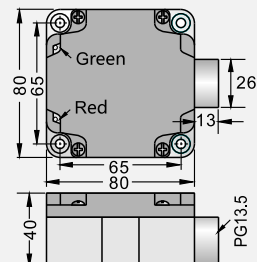
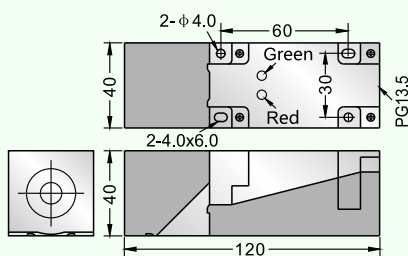


W80xH40xL80

CE

DC-3 wires NPN N.O.	IPSBX-LN30NA-D4YT	* 01	IPSKE-LN60NA-D4YT	* 01
DC-3 wires NPN N.C.	IPSBX-LN30NB-D4YT	* 02	IPSKE-LN60NB-D4YT	* 02
DC-4 wires NPN N.O.+N.C.	IPSBX-LN30NC-D4YT	* 10	IPSKE-LN60NC-D4YT	* 10
DC-3 wires PNP N.O.	IPSBX-LN30PA-D4YT	* 03	IPSKE-LN60PA-D4YT	* 03
DC-3 wires PNP N.C.	IPSBX-LN30PB-D4YT	* 04	IPSKE-LN60PB-D4YT	* 04
DC-4 wires PNP N.O.+N.C.	IPSBX-LN30PC-D4YT	* 11	IPSKE-LN60PC-D4YT	* 11
DC-2 wires N.O.	IPSBX-LN30LA-D4YT	* 18	IPSKE-LN60LA-D4YT	* 18
DC-2 wires N.C.	IPSBX-LN30LB-D4YT	* 19	IPSKE-LN60LB-D4YT	* 19
Rated sensing distance	30mm		60mm	
Mounting	non-shield			
Supply voltage	12...24VDC (10-30VDC) , ripple: 10% max			
Leakage current	<0.01mA(3 wires) ; <0.8mA(2 wires)			
Setting distance	0...21mm		0...42mm	
Standard target	Iron 90x90x1mm		Iron 180x180x1mm	
Frequency	150Hz		80Hz	
Consumption	≤15mA			
Load current	200mA			
Voltage drop(V _p)	≤1.8V(2 wires : Load current 100mA < 5V)			
Hysteresis	1...15%			
Repeatability	≤2%			
Display	Power: Red LED; Operation: Green LED			
Protection Circuit	Short circuit protection, reversed polarity protection and overload protection			
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP66			
Connection	Terminal connection			
Housing material	PBT			
Sensing face material	PBT			

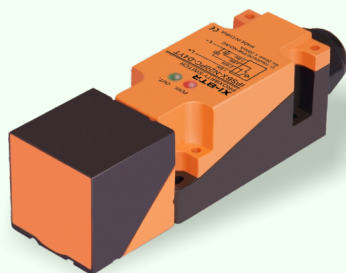
Dimensional drawing



Remark

01 . 02 . 03 . 04 . 10 . 11 . 18 . 19—NO of wiring diagram(refers to page 12...15)

PICTURE



W40xH40xL120

CE

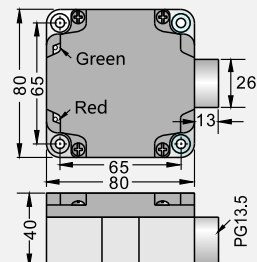
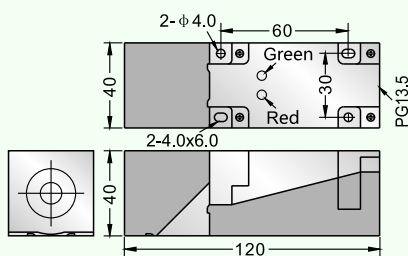


W80xH40xL80

CE

AC-2 wires N.O.	IPSBX-LN30AA-A4NT	* 20	IPSKE-LN60AA-A4NT	* 20
AC-2 wires N.C.	IPSBX-LN30AB-A4NT	* 21	IPSKE-LN60AB-A4NT	* 21
Rated sensing distance	30mm		60mm	
Mounting	non-shield			
Supply voltage	20...250V AC(50/60Hz)			
Leakage current	≤1.7mA			
Setting distance	0...21mm		0...42mm	
Standard target	Iron 90x90x1mm		Iron 180x180x1mm	
Frequency	20Hz			
Consumption				
Load current	200mA			
Voltage drop(V _p)	≤8V			
Hysteresis	3...15%			
Repeatability	≤2%			
Display	Power: Red LED; Operation: Green LED			
Protection Circuit				
Operating temperature	-25...+70°C(no condensation)			
Anti-impact	500m/s ² (50G) X、Y、Z direction, each 10 times			
Anti-vibration	10...55Hz(amplitude 1.5mm)X、Y、Z direction each 2 hours			
Protection	IP66			
Connection	Terminal connection			
Housing material	PBT			
Sensing face material	PBT			

Dimensional drawing



Remark

20 . 21—NO of wiring diagram(refers to page 12...15)