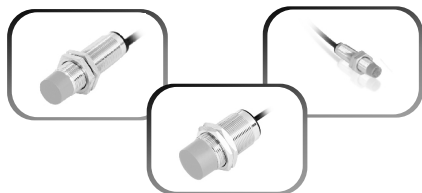


Namur Inductive Proximity Sensor

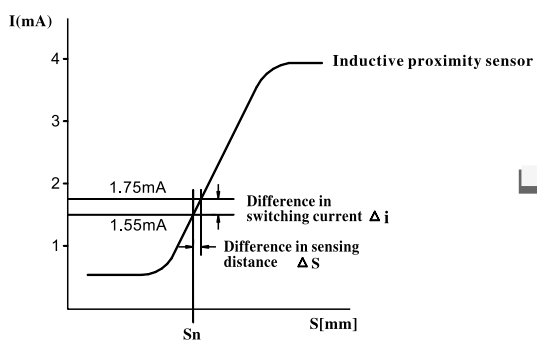


Features

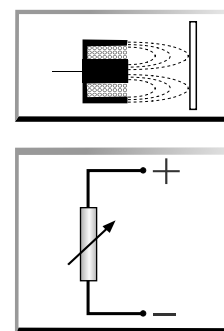
- Can be applied for dangerous & explosive area when connecting with suitable an amplifier .
- Higher response frequency.
- Two or more sensors mounted in series or in parallel in an amplifier is not allowed .



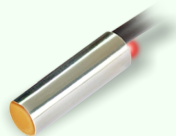
Ø4, M5-Cable	/D-01
Ø6.5-Cable	/D-02
M8-Cable	/D-03
Ø11-Cable	/D-04
M12-Cable	/D-05
M18-Cable	/D-06
M30-Cable	/D-07



■ NAMUR



PICTURE

 $\phi 4$, L25


CE

M5x0.5, L25



CE

DC-2 wires Namur N.C.

NBD4-S0.8B-N2N2 * 22

NBT5-S0.8B-N2N2 * 22

Rated sensing distance

0.8mm

Mounting

shield

Supply voltage

8.2V DC

Leakage current

Setting distance

Standard target

Iron 8x8x1mm

Frequency

4000Hz

Consumption

 $\leq 1.0\text{mA}$

Load current

 $\geq 2.2\text{mA}$

 Voltage drop(V_p)

Hysteresis

1...15%

Repeatability

Display

Protection Circuit

Operating temperature

 $-20...+50^{\circ}\text{C}$ (no condensation)

Anti-impact

 300m/s^2 (30G) X、Y、Z direction, each 10 times

Anti-vibration

 $10...55\text{Hz}$ (amplitude 1.5mm)X、Y、Z direction each 2 hours

Protection

IP66

Connection

 Cable: $\phi 2.8\text{mm}$ 2M

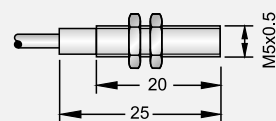
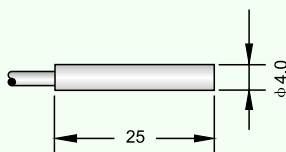
Housing material

nickel-plated brass

Sensing face material

PC

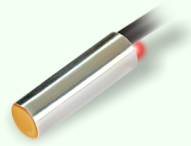
Dimensional drawing



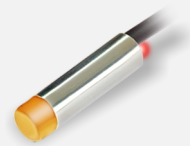
Remark

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

PICTURE



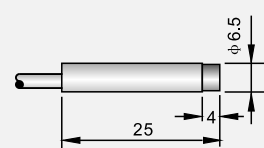
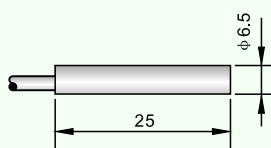
Φ 6.5, L25



Φ 6.5, L25

DC-2 wires Namur N.C.	NBD6.5-S1.2B-N2N2	* 22	NBD6.5-N02B-N2N2	* 22
Rated sensing distance	1.2mm		2mm	
Mounting	shield		non-shield	
Supply voltage	8.2V DC			
Leakage current	_____			
Setting distance	_____			
Standard target	Iron 8x8x1mm			
Frequency	3500Hz		3000Hz	
Consumption	≤1.0mA			
Load current	≥2.2mA			
Voltage drop(V _p)	_____			
Hysteresis	1...15%			
Repeatability	_____			
Display	_____			
Protection Circuit	_____			
Operating temperature	-20...+50°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

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

PICTURE



M8x1, L25

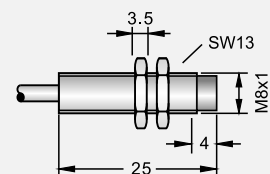
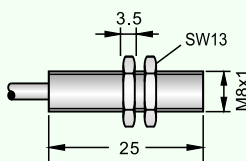


M8x1, L25



DC-2 wires Namur N.C.	NBT8-S1.2B-N2N2	* 22	NBT8-N02B-N2N2	* 22
Rated sensing distance	1.2mm		2mm	
Mounting	shield		non-shield	
Supply voltage	8.2V DC			
Leakage current	_____			
Setting distance	_____			
Standard target	Iron 8x8x1mm			
Frequency	3500Hz		3000Hz	
Consumption	≤1.0mA			
Load current	≥2.2mA			
Voltage drop(V _p)	_____			
Hysteresis	1...15%			
Repeatability	_____			
Display	_____			
Protection Circuit	_____			
Operating temperature	-20...+50°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

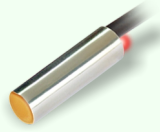


Remark

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

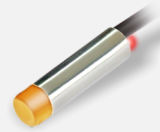
PICTURE

φ 11, L25



CE

φ 11, L25



CE

DC-2 wires Namur N.C.

NBD11-S02B-N2N2 * 22

NBD11-N04B-N2N2 * 22

Rated sensing distance

2mm

4mm

Mounting

shield

non-shield

Supply voltage

8.2V DC

Leakage current

≤1.0mA

Setting distance

Standard target

Iron 12x12x1mm

Frequency

3000Hz

2000Hz

Consumption

Load current

≥2.2mA

Voltage drop(V_p)

Hysteresis

1...15%

Repeatability

Display

Protection Circuit

Operating temperature

-20...+50°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: φ 4mm 2M

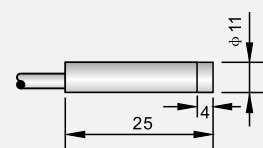
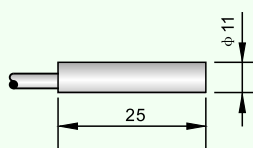
Housing material

nickel-plated brass

Sensing face material

PBT

Dimensional drawing



Remark

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

PICTURE



M12x1, L25

CE

NBT12-S02B-N2N2 * 22



M12x1, L25

CE

NBT12-N04B-N2N2 * 22

DC-2 wires Namur N.C.

Rated sensing distance

2mm

Mounting

shield

Supply voltage

8.2V DC

Leakage current

≤1.0mA

Setting distance

Standard target

Iron 12x12x1mm

Frequency

3000Hz

2000Hz

Consumption

Load current

≥2.2mA

Voltage drop(V_p)

Hysteresis

1...15%

Repeatability

Display

Protection Circuit

Operating temperature

-20...+50°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: Φ4mm 2M

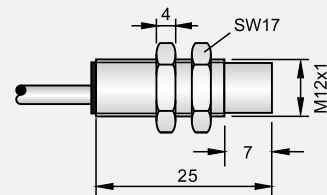
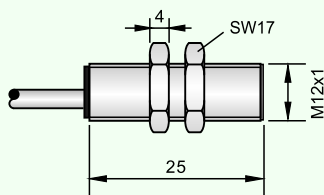
Housing material

nickel-plated brass

Sensing face material

PBT

Dimensional drawing



Remark

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

PICTURE

M18x1, L40



CE

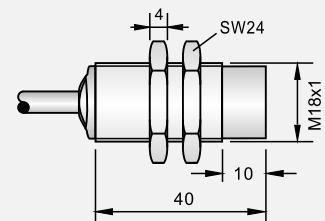
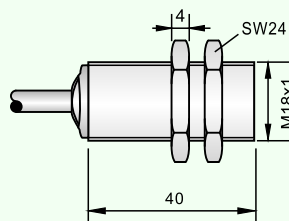
M18x1, L40



CE

DC-2 wires Namur N.C.	NBT18-S05B-N2N2	* 22	NBT18-N08B-N2N2	* 22
Rated sensing distance	5mm		8mm	
Mounting	shield		non-shield	
Supply voltage	8.2V DC			
Leakage current				
Setting distance				
Standard target	Iron 18x18x1mm		Iron 25x25x1mm	
Frequency	1000Hz		500Hz	
Consumption	≤1.0mA			
Load current	≥2.2mA			
Voltage drop(V _p)				
Hysteresis	1...15%			
Repeatability				
Display				
Protection Circuit				
Operating temperature	-20...+50°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			
Sensing face material	PBT			

Dimensional drawing



Remark 22—NO of wiring diagram(refers to page 12...15)

PICTURE



M30x1.5, L40

CE

NBT30-S10B-N2N2 * 22



M30x1.5, L40

CE

NBT30-N15B-N2N2 * 22

DC-2 wires Namur N.C.

Rated sensing distance

10mm

Mounting

shield

Supply voltage

8.2V DC

Leakage current

Setting distance

Standard target

Iron 30x30x1mm

Frequency

500Hz

Consumption

≤1.0mA

Load current

≥2.2mA

Voltage drop(V_p)

Hysteresis

1...15%

Repeatability

Display

Protection Circuit

Operating temperature

-20...+50°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

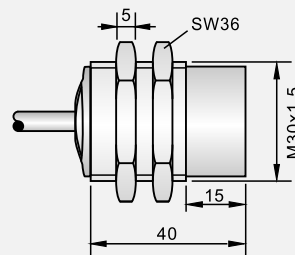
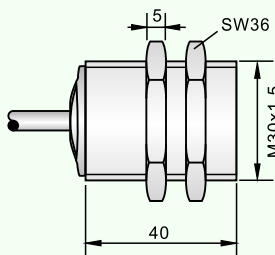
Housing material

nickel-plated brass

Sensing face material

PBT

Dimensional drawing



Remark

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