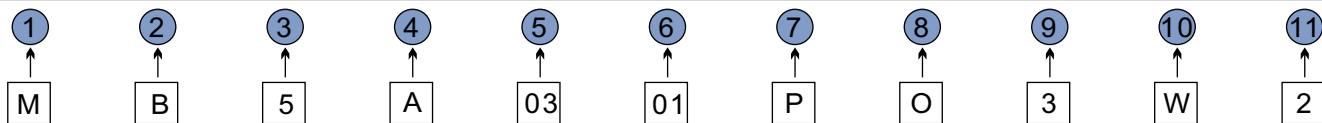


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Selection Guide For Proximity Sensor



① Type:

M: Inductive **K:** Capacitive **S:** Steel-face **D:** Weld Field Immune

② Operating Voltage:

A: DC6-12V **B:** DC10-30V **C:** DC18-30V **D:** DC5-36V **E:** DC10-55V **F:** DC10-60V
G: AC20-250V **H:** AC/DC20-250V

③ Shape:

1: Plastic Tube With Thread **2:** Plastic Tube Smooth Body **3:** Brass Tube With Thread
4: Brass Tube Smooth Body **5:** Stainless Tube With Thread **6:** Stainless Tube Smooth Body
7: Square Type Brass Tube **8:** Square Type Plastic Tube

④ Mounting:

A: Flush **B:** Non-Flush

⑤ Dimension:

03: 3mm **04:** 4mm **05:** 5mm **6.5:** 6.5mm **08:** 8mm **12:** 12mm
12: 12mm **18:** 18mm **30:** 30mm **40:** 40mm **80:** 80mm

⑥ Sensing Distance: (Sn/mm)

0.6: 0.6mm **0.8:** 0.8mm **1.5:** 1.5mm **01:** 1mm **12:** 12mm **25:** 25mm

⑦ Output Function:

P: PNP **N:** NPN **C:** AC **A:** Analog **T:** DC 2 Wire Output
E: Namur **M:** AC/DC MOSFET Output(20-250V)

⑧ Output:

A: On Action (N. O.) **B:** Off Action (N. C.) **C:** Changeover (N. O. +N. C.)
E: Changeable (N. O. or N. C.) **I:** Current Output **V:** Voltage Output
M: Current + Voltage Output

⑨ Connection:

2: 2 Wire **3:** 3 Wire **4:** 4 Wire **5:** 5 Wire
E: Euro Style Connector **P:** Pico Style Connector **M:** Mico Style Connector
T: Pigtail Style

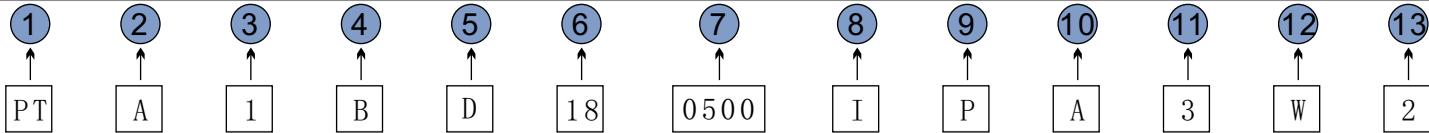
⑩ Protection:

W: Normal Body With Short Circuit Protection **L:** Long Body With Short Circuit Protection
M: Mini-Short Body With Short Circuit Protection **D:** Short Body With Short Circuit Protection
O: Normal Body Without Short Circuit Protection **S:** Short Body Without Short Circuit Protection
H: Long Body Without Short Circuit Protection

⑪ Cable Length or Connector Pin Numbe:

Cable: 2=2m 3=3m 5=5m 9=9m 12=12m ...
Connector: 2=2 Pin 3=3 Pin 4=4 Pin 5=5Pin ...

Selection Guide For Photoelectric Sensor



1 Type:

PT: Photoelectric

2 Operating Voltage:

C: 12-240VDC/24-240VAC

B: AC24-240V

A: DC10-30V

3 Housing Shape:

1: Cylindrical With Thread

2: Square

4 Housing Material:

P: Plastic Housing

B: Brass Tube

S: Stainless Steel Tube

5 Sensing Mode:

C: Through-beam

D: Diffuse

R: Retro-reflective

F: Retro-reflective With Polarizing Filters

T: Retro-reflective For Transparent

6 Dimension

08: M8

12: M12

18: M18

30: M30

31: PS31

50: PS50

7 Sensing Distance:

0400: 400mm

1000: 1m

1800: 1.8m

010m: 10m

8 Light Source:

I: Infrared (880nm)

R: Red (660nm)

9 Output Function:

P: PNP

N: NPN

C: AC

D: PNP or NPN

M: AC/DC Relay

10 Output:

A: Light On

B: Dark On

E: Emitter

C: Light On + Dark On

T: Light On or Dark On

R: AC/DC Relay

11 Connection:

2: 2 Wire

3: 3 Wire

4: 4 Wire

5: 5 Wire

E: Euro Style Connector

P: Pico Style Connector

M: Mico Style Connector

12 Protection:

W: Normal Body With Short Circuit Protection

N: Normal Body Without Short Circuit Protection

13 Cable Length or Connector Pin Numbe:

Cable:

2: 2m

3: 3m

9: 9m

12: 12m ...

Connector:

3=3 Pin

4=4 Pin

5=5Pin ...

DC ULTRA-MINI INDUCTIVE PROXIMITY SENSOR $\Phi 3$, M4, $\Phi 4$, M5

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS (Unit: mm)
$\Phi 3$	Stainless-steel	25 25 (2.7 Φ 3x0.15) 25 25 (Pigtail)	Flush	0.6 0.8	NPN N.O. NPN N.C. PNP N.O. PNP N.C.	Nominal Voltage: 10-30VDC Ripple: <10% No Load Current: <10mA Max. Load Current: 100mA Leakage Current: <0.01mA Voltage Drop: <1.5V Switching Frequency: 2KHz Response Time: 0.1ms/0.1ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: Yes Overload Trip Point: 120mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	
M4x0.5	Stainless-steel	25 25 (2.7 Φ 3x0.15) 25 25 (Pigtail)	Flush	0.6	NPN N.O. NPN N.C. PNP N.O. PNP N.C.	Nominal Voltage: 10-30VDC Ripple: <10% No Load Current: <10mA Max. Load Current: 100mA Leakage Current: <0.01mA Voltage Drop: <1.5V Switching Frequency: 2KHz Response Time: 0.1ms/0.1ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: Yes Overload Trip Point: 120mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	
$\Phi 4$	Stainless-steel	25 25 (2.7 Φ 3x0.15) 25 25 (Pigtail)	Flush	0.8 1.0 1.5	NPN N.O. NPN N.C. PNP N.O. PNP N.C.	Nominal Voltage: 10-30VDC Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <1.5V Switching Frequency: 2KHz Response Time: 0.1ms/0.1ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: Yes Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	
M5x0.5	Stainless-steel	25 25 (2.7 Φ 3x0.15) 28 25 (2.7 Φ 3x0.15) 30 25 (2.7 Φ 3x0.15) 40 15 (Pico Style)	Flush	0.8 1.0 1.5	NPN N.O. NPN N.C. PNP N.O. PNP N.C.	Nominal Voltage: 10-30VDC Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <1.5V Switching Frequency: 2KHz Response Time: 0.1ms/0.1ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: Yes Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	

DC MINI-SHORTER INDUCTIVE PROXIMITY SENSOR Φ 6.5, Φ6.5Y, M8

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
Φ 6.5	Stainless-steel	18 25 (3Φ 3x0.15) 18 25 (Pigtail) 32 4 (Pico Style)	Flush	1.0 2.0 3.0	NPN N.O. NPN N.C. PNP N.O. PNP N.C.	Nominal Voltage: 10-30VDC Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <2.0V Switching Frequency: 1KHz Response Time: 0.2ms/0.2ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: Yes Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	
Φ 6.5Y	Stainless-steel	18 25 (3Φ 3x0.15) 18 25 (Pigtail)	Flush	1.0 2.0 3.0	NPN N.O. NPN N.C. PNP N.O. PNP N.C.	Nominal Voltage: 10-30VDC Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <2.0V Switching Frequency: 1KHz Response Time: 0.2ms/0.2ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: Yes Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	
M8x1	Stainless-steel	18 35 (3Φ 3x0.15) 18 25 (Pigtail) 32 15 (Pico Style)	Flush	1.0 2.0 3.0	NPN N.O. NPN N.C. PNP N.O. PNP N.C.	Nominal Voltage: 10-30VDC Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <2.0V Switching Frequency: 2KHz Response Time: 0.1ms/0.1ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: Yes Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	

DC INDUCTIVE PROXIMITY SENSOR

Φ 6.5, M8, Q8

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)							
Φ 6.5	Stainless-steel Brass	30 36(Φ 3x0.15) 45 40(Φ 3/4x0.15) 45 14(Pico Style) 60 17(Pico Style) 53 20(Euro Style) 70 25(Euro Style)	Flush Non-flush	1.0 2.0 3.0 2.0 4.0 6.0	NPN N.O. NPN N.C. PNP N.O. PNP N.C. N.O. N.C. PNP N.O.&N.C. NPN N.O.&N.C.	Nominal Voltage: 10~30VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O.&N.C.) (NPN N.O.&N.C.) (N.O./N.C.) 10~60VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O.&N.C.) (NPN N.O.&N.C.) 10~55VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O.&N.C.) (NPN N.O.&N.C.) 5~36VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O.&N.C.) (NPN N.O.&N.C.) Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <1.5V <2.0V → (Flush, Sn-3mm) (Non-flush, Sn-6mm) Switching Frequency: 2KHz 1KHz → (Flush, Sn-3mm) (Non-flush, Sn-4mm) Response Time: 0.1ms/0.1ms 0.2ms/0.2ms → (Flush, Sn-3mm) (Non-flush, Sn-4mm) 0.5ms/0.5ms → (Non-flush, Sn-6mm) Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT								
							M8	Stainless-steel Brass	30 36(Φ 3x0.15) 45 40(Φ 3/4x0.15) 45 14(Pico Style) 60 17(Pico Style) 53 20(Euro Style) 70 25(Euro Style)	Flush Non-flush	1.0 2.0 3.0 2.0 4.0 6.0	NPN N.O. NPN N.C. PNP N.O. PNP N.C. N.O. N.C. PNP N.O.&N.C. NPN N.O.&N.C.	Nominal Voltage: 10~30VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O.&N.C.) (NPN N.O.&N.C.) (N.O./N.C.) 10~60VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O.&N.C.) (NPN N.O.&N.C.) 10~55VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O.&N.C.) (NPN N.O.&N.C.) 5~36VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O.&N.C.) (NPN N.O.&N.C.) Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <1.5V <2.0V → (Flush, Sn-3mm) (Non-flush, Sn-6mm) Switching Frequency: 2KHz 1KHz → (Flush, Sn-3mm) (Non-flush, Sn-4mm) Response Time: 0.1ms/0.1ms 0.2ms/0.2ms → (Flush, Sn-3mm) (Non-flush, Sn-4mm) 0.5ms/0.5ms → (Non-flush, Sn-6mm) Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	
														Φ 6.5

DC INDUCTIVE PROXIMITY SENSOR

M12, M18, M30

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M12x1	Stainless-steel Brass Plastic	30 62(4Φ 3/4x0.15) 50 68(4Φ 3/4x0.15) 50 25(Euro Style) 68 32(Euro Style)	Flush Non-flush	2.0 4.0 6.0 4.0 8.0 10.0	NPN N.O. NPN N.C. PNP N.O. PNP N.C. N.O. N.C. PNP N.O. & N.C. NPN N.O. & N.C.	Nominal Voltage: 10-30VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) (N.O./N.C.) 10-60VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) 10-55VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) 5-36VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <1.5V <2.0V → (Flush, Sn=4mm, 6mm) (Non-flush, Sn=8mm, 10mm) Switching Frequency: 2KHz → (Flush, Sn=2mm) 1KHz → (Flush, Sn=4mm), (Non-flush, Sn=4mm) 500Hz → (Non-flush, Sn=8mm) 800Hz → (Flush, Sn=6mm) 400Hz → (Non-flush, Sn=10mm) Response Time: 0.1ms/0.1ms → (Flush, Sn=2mm) 0.2ms/0.2ms → (Flush, Sn=4mm), (Non-flush, Sn=4mm) 0.3ms/0.3ms → (Non-flush, Sn=10mm) 0.5ms/0.5ms → (Non-flush, Sn=8mm) Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25°C~+75°C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	
M18x1	Stainless-steel Brass Plastic	35 132(5Φ 3/4x0.15) 55 153(5Φ 3/4x0.15) 48 50(Euro Style) 79 95(Euro Style)	Flush Non-flush	5.0 8.0 12.0 8.0 16.0 20.0	NPN N.O. NPN N.C. PNP N.O. PNP N.C. N.O. N.C. PNP N.O. & N.C. NPN N.O. & N.C.	Nominal Voltage: 10-30VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) (N.O./N.C.) 10-60VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) 10-55VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) 5-36VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <1.5V <2.0V → (Flush, Sn=5mm) (Non-flush, Sn=8mm) Switching Frequency: 1KHz → (Flush, Sn=5mm) 500Hz → (Flush, Sn=8mm), (Non-flush, Sn=8mm) 150Hz → (Non-flush, Sn=16mm) 300Hz → (Flush, Sn=12mm) 100Hz → (Non-flush, Sn=20mm) Response Time: 0.2ms/0.2ms → (Flush, Sn=5mm) 0.5ms/0.5ms → (Flush, Sn=8mm/12mm), (Non-flush, Sn=8mm) 1ms/1ms → (Non-flush, Sn=16mm, Sn=20mm) Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25°C~+75°C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	
M30x1	Stainless-steel Brass Plastic	35 132(5Φ 3/4x0.15) 55 153(5Φ 3/4x0.15) 48 50(Euro Style) 79 95(Euro Style)	Flush Non-flush	10.0 16.0 22.0 15.0 25.0 40.0	NPN N.O. NPN N.C. PNP N.O. PNP N.C. N.O. N.C. PNP N.O. & N.C. NPN N.O. & N.C.	Nominal Voltage: 10-30VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) (N.O./N.C.) 10-60VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) 10-55VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) 5-36VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) (PNP N.O. & N.C.) (NPN N.O. & N.C.) Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <1.5V <2.0V → (Flush, Sn=10mm) (Non-flush, Sn=15mm) Switching Frequency: 300Hz → (Flush, Sn=10mm) 150Hz → (Flush, Sn=16mm, Sn=22mm) 100Hz → (Non-flush, Sn=15mm) 100Hz → (Non-flush, Sn=40mm) Response Time: 0.5ms/0.5ms → (Flush, Sn=10mm, Sn=22mm) 1ms/1ms → (Flush, Sn=15mm/16mm) 1ms/1ms → (Non-flush, Sn=25mm, Sn=40mm) Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25°C~+75°C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	

AC INDUCTIVE PROXIMITY SENSOR

M12, M18, M30

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M12x1	Stainless-steel Brass	60 77(4Φ 3x0.34) 68 32(Micro Style)	Flush Non-flush	2.0 4.0	N.O. N.C.	<p>Nominal Voltage: 20-250VDC</p> <p>No Load Current: <1.8mA Max. Load Current: 400mA Leakage Current: <1.8mA Surge Current: 5A (20ms) Main Load Current: 5mA Voltage Drop: <8VAC at 400mA Switching Frequency: 25Hz Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: No Protection: IP67 Material Active Face: PBT</p>	
M18x1	Stainless-steel Brass	35 146(5Φ 3x0.34) 40 156(5Φ 3x0.5) 55 160(5Φ 3x0.5) 48 50(Micro Style) 53 51(Micro Style) 79 69(Micro Style)	Flush Non-flush	5.0 8.0	N.O. N.C.	<p>Nominal Voltage: 20-250VDC</p> <p>No Load Current: <1.8mA Max. Load Current: 400mA Leakage Current: <1.8mA Surge Current: 5A (20ms) Main Load Current: 5mA Voltage Drop: <8VAC at 400mA Switching Frequency: 25Hz Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: No Protection: IP67 Material Active Face: PBT</p>	
M30x1	Stainless-steel Brass	40 208(5.8Φ 3x0.34) 45 209(5.8Φ 3x0.5) 80 248(5.8Φ 3x0.5) 48 111(Micro Style) 53 121(Micro Style) 79 148(Micro Style)	Flush Non-flush	10.0 15.0 15.0 20.0	N.O. N.C.	<p>Nominal Voltage: 20-250VDC</p> <p>No Load Current: <1.8mA Max. Load Current: 400mA Leakage Current: <1.8mA Surge Current: 5A (20ms) Main Load Current: 5mA Voltage Drop: <8VAC at 400mA Switching Frequency: 25Hz Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: No Protection: IP67 Material Active Face: PBT</p>	

AC INDUCTIVE PROXIMITY SENSOR

Q18, Q40S, Q40

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
Q18	PBT Resin	18X10X23 51(4Φ 2x0.34)	Non-flush	4.0	N. O. N. C.	<p>Nominal Voltage: 20-250VDC</p> <p>No Load Current: <1.8mA Max. Load Current: 400mA Leakage Current: <1.8mA Surge Current: 5A (20ms) Main Load Current: 5mA Voltage Drop: <8VAC at 400mA Switching Frequency: 25Hz Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: No Protection: Ip67 Material Active Face: PBT</p>	
Q40S	PBT Resin	40X40X65 170(Mico Style)	Flush Non-flush	15.0 30.0	N. O. N. C. N. O. & N. C.	<p>Nominal Voltage: 20-250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 400mA Leakage Current: <2.5mA Surge Current: 5A (20ms) Main Load Current: 5mA Voltage Drop: <8VAC at 400mA Switching Frequency: 25Hz Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: No Protection: IP67 Material Active Face: PBT</p>	
Q40	PBT Resin	40X40X118 262(5.8Φ 3x0.5) 40X40X118 295(Mico Style)	Flush Non-flush	15.0 30.0	N. O. N. C. N. O. & N. C.	<p>Nominal Voltage: 20-250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 400mA Leakage Current: <2.5mA Surge Current: 5A (20ms) Main Load Current: 5mA Voltage Drop: <8VAC at 400mA Switching Frequency: 25Hz Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: No Protection: IP67 Material Active Face: PBT</p>	

AC/DC INDUCTIVE PROXIMITY SENSOR

M12, M18, M30

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS (Unit: mm)
M12x1	Stainless-steel Brass	60 77 (4Φ 3x0.34) 68 32 (Micro Style)	Flush Non-flush	2.0 4.0	N.O. N.C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 100mA Leakage Current: <2.5mA Surge Current: 5A (20ms) Main Load Current: 5mA Voltage Drop: <10VAC; 8VDC Switching Frequency: 25Hz (AC); 40Hz (DC) Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: / Short Circuit Protection: Yes Reverse polarity protection: No Protection: IP67 Material Active Face: PBT</p>	
M18x1	Stainless-steel Brass	55 160 (5Φ 3x0.5) 79 69 (Micro Style)	Flush Non-flush	5.0 8.0	N.O. N.C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 200mA Leakage Current: <2.5mA Surge Current: 5A (20ms) Main Load Current: 5mA Voltage Drop: <10VAC; 8VDC Switching Frequency: 25Hz (AC); 40Hz (DC) Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: / Short Circuit Protection: Yes Reverse polarity protection: No Protection: IP67 Material Active Face: PBT</p>	
M30x1	Stainless-steel Brass	40 208 (5.8Φ 3x0.34) 45 209 (5.8Φ 3x0.5) 80 248 (5.8Φ 3x0.5) 48 111 (Micro Style) 53 121 (Micro Style) 79 148 (Micro Style)	Flush Non-flush	10.0 15.0 15.0 20.0	N.O. N.C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 200mA Leakage Current: <2.5mA Surge Current: 5A (20ms) Main Load Current: 5mA Voltage Drop: <10VAC; 8VDC Switching Frequency: 25Hz (AC); 40Hz (DC) Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: / Short Circuit Protection: Yes Reverse polarity protection: No Protection: IP67 Material Active Face: PBT</p>	

AC/DC INDUCTIVE PROXIMITY SENSOR

Q40S, Q40

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
Q40S	PBT Resin	40X40X65 170 (Mico Style)	Flush Non-flush	15.0 30.0	N. O. N. C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 200mA Leakage Current: <2.5mA Surge Current: 2.2A (20ms) Main Load Current: 5mA Voltage Drop: <10VAC; 8VDC Switching Frequency: 25Hz (AC); 40Hz (DC) Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: / Short Circuit Protection: Yes Reverse polarity protection: No Protection: IP67 Material Active Face: PBT</p>	
Q40	PBT Resin	40X40X118 262 (5.8Φ 3x0.5) 40X40X118 295 (Mico Style)	Flush Non-flush	15.0 30.0	N. O. N. C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 200mA Leakage Current: <2.5mA Surge Current: 2.2A (20ms) Main Load Current: 5mA Voltage Drop: <10VAC; 8VDC Switching Frequency: 25Hz (AC); 40Hz (DC) Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: / Short Circuit Protection: Yes Reverse polarity protection: No Protection: IP67 Material Active Face: PBT</p>	

NAMUR INDUCTIVE PROXIMITY SENSOR

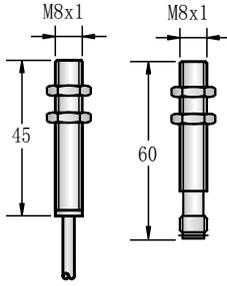
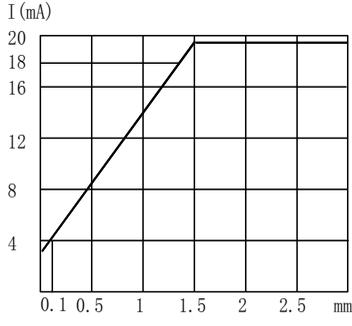
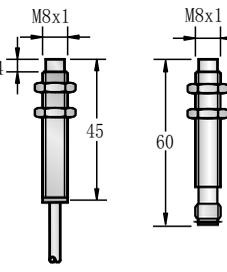
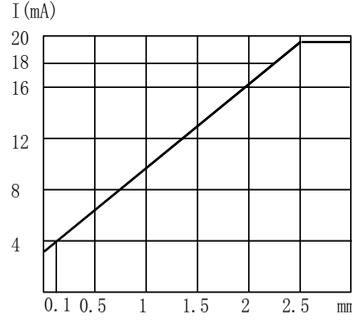
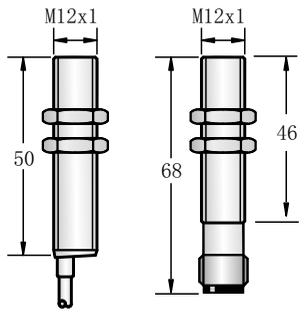
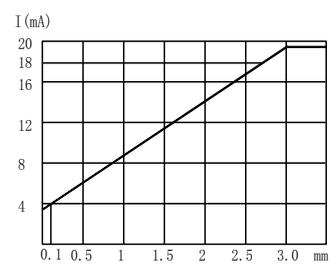
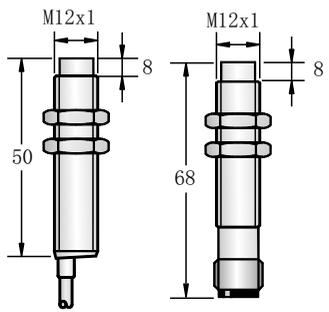
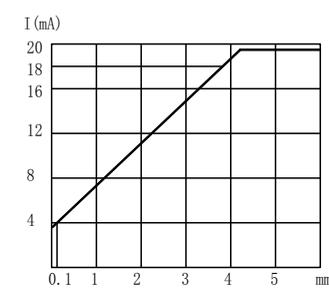
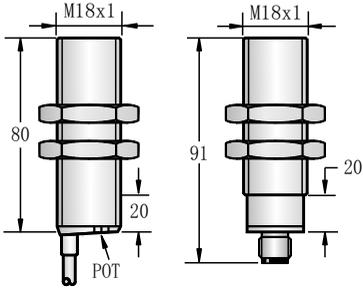
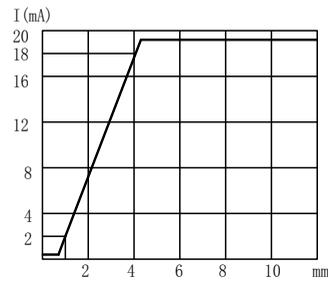
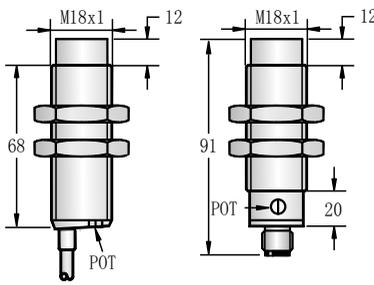
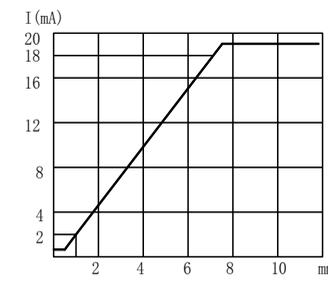
$\Phi 4$, M5, $\Phi 6.5$, M8

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS (Unit: mm)
$\Phi 4$	Stainless-steel	8 12 (1Φ 1x2) 20 25 (2.7 Φ 2x0.15)	Flush	0.6 0.8	Namur	<p>Nominal Voltage: 6-12VDC</p> <p>Ripple: -</p> <p>No Load Current: >2.2mA (Off), <1.1mA (On)</p> <p>Max. Load Current: -</p> <p>Leakage Current: -</p> <p>Surge Current: -</p> <p>Main Load Current: -</p> <p>Voltage Drop: -</p> <p>Switching Frequency: 2KHz</p> <p>Response Time: 0.05ms/0.05ms</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: -</p> <p>Operating Temperature: -25° C~+70° C</p> <p>Temperature Drift: <2% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: /</p> <p>Time Delay Before Availability: <10ms</p> <p>EMC: RFI>3V/m EFT>1KV ESD>4KV</p> <p>Shock/Vibration: IEC 60947-5-2, Part 7.4.1 & Part 7.4.2</p> <p>Short Circuit Protection: No</p> <p>Reverse polarity protection: No</p> <p>Protection: IP67</p> <p>Material Active Face: PBT</p>	
M5x0.5	Stainless-steel	20 25 (2.7 Φ 2x0.15)	Flush	0.6 0.8	Namur	<p>Nominal Voltage: 6-12VDC</p> <p>Ripple: -</p> <p>No Load Current: >2.2mA (Off), <1.1mA (On)</p> <p>Max. Load Current: -</p> <p>Leakage Current: -</p> <p>Surge Current: -</p> <p>Main Load Current: -</p> <p>Voltage Drop: -</p> <p>Switching Frequency: 2KHz</p> <p>Response Time: 0.05ms/0.05ms</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: -</p> <p>Operating Temperature: -25° C~+70° C</p> <p>Temperature Drift: <2% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: /</p> <p>Time Delay Before Availability: <10ms</p> <p>EMC: RFI>3V/m EFT>1KV ESD>4KV</p> <p>Shock/Vibration: IEC 60947-5-2, Part 7.4.1 & Part 7.4.2</p> <p>Short Circuit Protection: No</p> <p>Reverse polarity protection: No</p> <p>Protection: IP67</p> <p>Material Active Face: PBT</p>	
$\Phi 6.5$	Stainless-steel	25 26 (2.7 Φ 2x0.15)	Flush Non-flush	1.0 2.0	Namur	<p>Nominal Voltage: 6-12VDC</p> <p>Ripple: -</p> <p>No Load Current: >2.2mA (Off), <1.1mA (On)</p> <p>Max. Load Current: -</p> <p>Leakage Current: -</p> <p>Surge Current: -</p> <p>Main Load Current: -</p> <p>Voltage Drop: -</p> <p>Switching Frequency: 2KHz (Flush, Sn=1mm) 1KHz (Non-flush, Sn=2mm)</p> <p>Response Time: 0.05ms/0.05ms (Flush, Sn=1mm) 0.1ms/0.1ms (Non-flush, Sn=2mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: -</p> <p>Operating Temperature: -25° C~+70° C</p> <p>Temperature Drift: <2% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: /</p> <p>Time Delay Before Availability: <10ms</p> <p>EMC: RFI>3V/m EFT>1KV ESD>4KV</p> <p>Shock/Vibration: IEC 60947-5-2, Part 7.4.1 & Part 7.4.2</p> <p>Short Circuit Protection: No</p> <p>Reverse polarity protection: No</p> <p>Protection: IP67</p> <p>Material Active Face: PBT</p>	
M8x1	Stainless-steel Brass	25 34 (3 Φ 2x0.15)	Flush Non-flush	1.0 2.0	Namur	<p>Nominal Voltage: 6-12VDC</p> <p>Ripple: -</p> <p>No Load Current: >2.2mA (Off), <1.1mA (On)</p> <p>Max. Load Current: -</p> <p>Leakage Current: -</p> <p>Surge Current: -</p> <p>Main Load Current: -</p> <p>Voltage Drop: -</p> <p>Switching Frequency: 2KHz (Flush, Sn=1mm) 1KHz (Non-flush, Sn=2mm)</p> <p>Response Time: 0.05ms/0.05ms (Flush, Sn=1mm) 0.1ms/0.1ms (Non-flush, Sn=2mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: -</p> <p>Operating Temperature: -25° C~+70° C</p> <p>Temperature Drift: <2% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: /</p> <p>Time Delay Before Availability: <10ms</p> <p>EMC: RFI>3V/m EFT>1KV ESD>4KV</p> <p>Shock/Vibration: IEC 60947-5-2, Part 7.4.1 & Part 7.4.2</p> <p>Short Circuit Protection: No</p> <p>Reverse polarity protection: No</p> <p>Protection: IP67</p> <p>Material Active Face: PBT</p>	

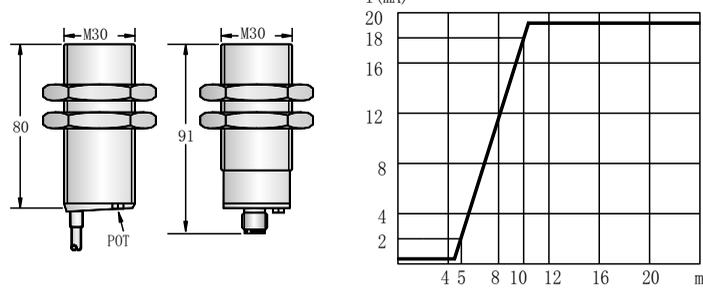
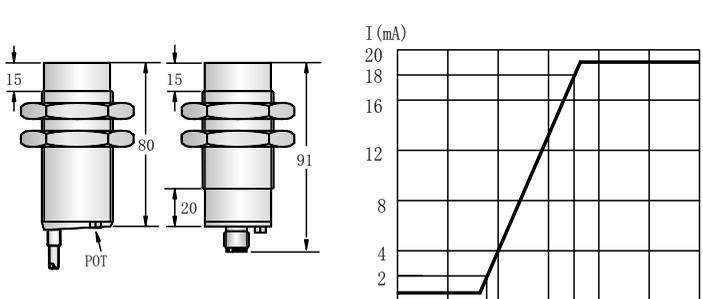
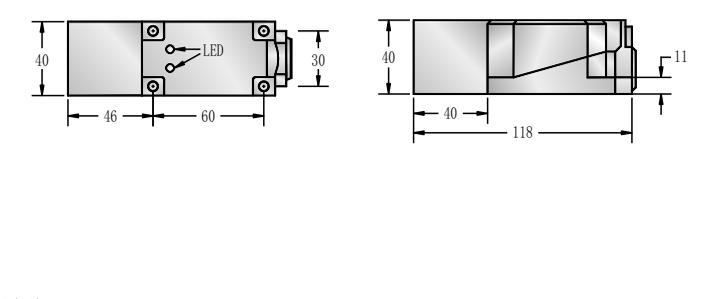
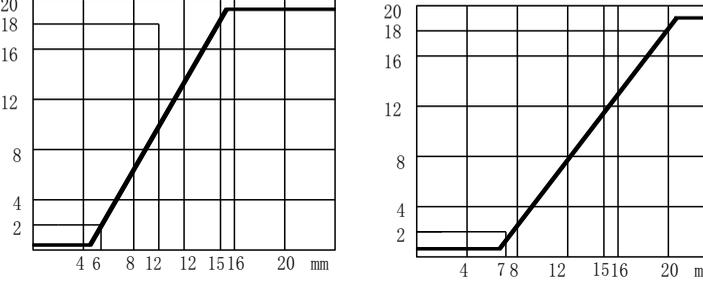
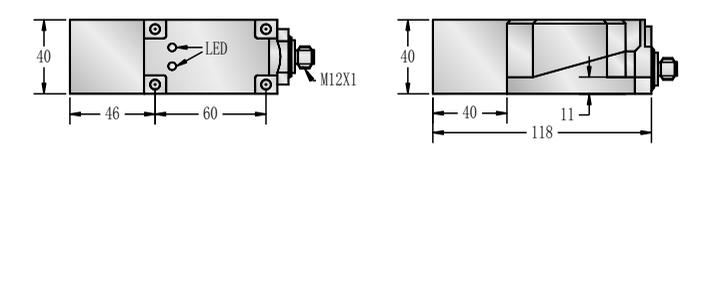
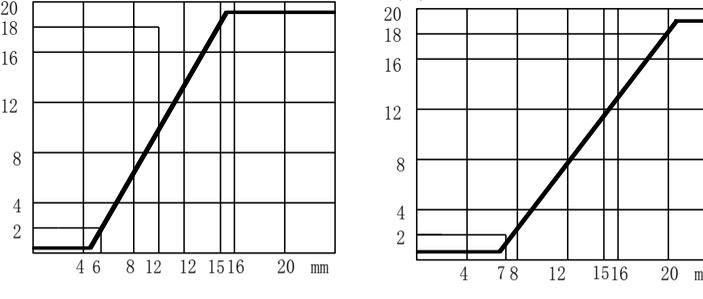
NAMUR INDUCTIVE PROXIMITY SENSOR M12, M18, M30, Q16

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS (Unit: mm)
M12x1	Stainless-steel Brass	25 42 (4Φ 2x0.34)	Flush Non-flush	2.0 4.0	Namur	<p>Nominal Voltage: 6-12VDC</p> <p>Ripple: -</p> <p>No Load Current: >2.2mA (Off), <1.1mA (On)</p> <p>Max. Load Current: -</p> <p>Leakage Current: -</p> <p>Surge Current: -</p> <p>Main Load Current: -</p> <p>Voltage Drop: -</p> <p>Switching Frequency: 1KHz (Flush, Sn=2mm) 500Hz (Non-flush, Sn=4mm)</p> <p>Response Time: 0.1ms/0.1ms (Flush, Sn=2mm) 0.2ms/0.2ms (Non-flush, Sn=4mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: -</p> <p>Operating Temperature: -25° C~+70° C</p> <p>Temperature Drift: <2% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: -</p> <p>Time Delay Before Availability: <10ms</p> <p>EMC: RFI>3V/m EFT>1KV ESD>4KV</p> <p>Shock/Vibration: IEC 60947-5-2, Part 7.4.1 & Part 7.4.2</p> <p>Short Circuit Protection: No</p> <p>Reverse polarity protection: No</p> <p>Protection: IP67</p> <p>Material Active Face: PBT</p>	
M18x1	Stainless-steel Brass	30 126 (5Φ 2x0.34)	Flush Non-flush	5.0 5.0	Namur	<p>Nominal Voltage: 6-12VDC</p> <p>Ripple: -</p> <p>No Load Current: >2.2mA (Off), <1.1mA (On)</p> <p>Max. Load Current: -</p> <p>Leakage Current: -</p> <p>Surge Current: -</p> <p>Main Load Current: -</p> <p>Voltage Drop: -</p> <p>Switching Frequency: 500Hz (Flush, Sn=5mm) 300Hz (Non-flush, Sn=8mm)</p> <p>Response Time: 0.2ms/0.2ms (Flush, Sn=5mm) 0.5ms/0.5ms (Non-flush, Sn=8mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: -</p> <p>Operating Temperature: -25° C~+70° C</p> <p>Temperature Drift: <2% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: -</p> <p>Time Delay Before Availability: <10ms</p> <p>EMC: RFI>3V/m EFT>1KV ESD>4KV</p> <p>Shock/Vibration: IEC 60947-5-2, Part 7.4.1 & Part 7.4.2</p> <p>Short Circuit Protection: No</p> <p>Reverse polarity protection: No</p> <p>Protection: IP67</p> <p>Material Active Face: PBT</p>	
M30x1	Stainless-steel Brass	40 185 (5.8Φ 2x0.5)	Flush Non-flush	5.0 5.0	Namur	<p>Nominal Voltage: 6-12VDC</p> <p>Ripple: -</p> <p>No Load Current: >2.2mA (Off), <1.1mA (On)</p> <p>Max. Load Current: -</p> <p>Leakage Current: -</p> <p>Surge Current: -</p> <p>Main Load Current: -</p> <p>Voltage Drop: -</p> <p>Switching Frequency: 300Hz (Flush, Sn=10mm) 100Hz (Non-flush, Sn=15mm)</p> <p>Response Time: 0.5ms/0.5ms (Flush, Sn=10mm) 1ms/1ms (Non-flush, Sn=15mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: -</p> <p>Operating Temperature: -25° C~+70° C</p> <p>Temperature Drift: <2% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: -</p> <p>Time Delay Before Availability: <10ms</p> <p>EMC: RFI>3V/m EFT>1KV ESD>4KV</p> <p>Shock/Vibration: IEC 60947-5-2, Part 7.4.1 & Part 7.4.2</p> <p>Short Circuit Protection: No</p> <p>Reverse polarity protection: No</p> <p>Protection: IP67</p> <p>Material Active Face: PBT</p>	
Q16	PBT Resin	16 55 (3Φ 2x0.34)	Flush Non-flush	1.0 2.0	Namur	<p>Nominal Voltage: 6-12VDC</p> <p>Ripple: -</p> <p>No Load Current: >2.2mA (Off), <1.1mA (On)</p> <p>Max. Load Current: -</p> <p>Leakage Current: -</p> <p>Surge Current: -</p> <p>Main Load Current: -</p> <p>Voltage Drop: -</p> <p>Switching Frequency: 2KHz (Flush, Sn=1mm) 1KHz (Non-flush, Sn=1mm)</p> <p>Response Time: 0.05ms/0.05ms (Flush, Sn=1mm) 0.1ms/0.1ms (Non-flush, Sn=2mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: -</p> <p>Operating Temperature: -25° C~+70° C</p> <p>Temperature Drift: <2% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: -</p> <p>Time Delay Before Availability: <10ms</p> <p>EMC: RFI>3V/m EFT>1KV ESD>4KV</p> <p>Shock/Vibration: IEC 60947-5-2, Part 7.4.1 & Part 7.4.2</p> <p>Short Circuit Protection: No</p> <p>Reverse polarity protection: No</p> <p>Protection: IP67</p> <p>Material Active Face: PBT</p>	

CURRENT OUTPUT ANALOG INDUCTIVE SENSOR M8, M12, M18

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M8x1	Brass Stainless-steel	45 40(4Φ 3x0.15)	Flush	0.1-1.5	PNP-Analog 4-20mA	Nominal Voltage: 18-300VDC Max. Ripple: <10% No Load Current: <35mA Output Voltage/Load Resistor: - Output Current/Load Resistor: 4-20mA/400Ω Max. Linearity: <5% Repeat Accuracy: 0.02mm Operating Temperature: -25° C~+70° C Temperature Drift: <5% (Sr) Max. Load Current: - Leakage Current: - Surge Current: - Main Load Current: - Voltage Drop: - Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Output Indicator: - Switching Frequency: 100Hz Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: Yes EMC: RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration: IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection: IP67 Material Active Face: PBT	 
		60 15(Pico Style)	Non-flush	0.1-2.5			 
M12x1	Brass Stainless-steel	50 67(4Φ 3x0.15)	Flush	0.1-3.0	PNP-Analog 4-20mA	Nominal Voltage: 18-300VDC Max. Ripple: <10% No Load Current: <35mA Output Voltage/Load Resistor: - Output Current/Load Resistor: 4-20mA/400Ω Max. Linearity: <5% Repeat Accuracy: 0.02mm Operating Temperature: -25° C~+70° C Temperature Drift: <5% (Sr) Max. Load Current: - Leakage Current: - Surge Current: - Main Load Current: - Voltage Drop: - Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Output Indicator: - Switching Frequency: 100Hz Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: Yes EMC: RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration: IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection: IP67 Material Active Face: PBT	 
		68 30(Euro Style)	Non-flush	0.1-4.0			 
M18x1	Brass Stainless-steel	80 142(5Φ 3x0.5)	Flush	1.0-4.0	PNP-Analog 0-20mA	Nominal Voltage: 18-300VDC Max. Ripple: <10% No Load Current: <15mA Output Voltage/Load Resistor: - Output Current/Load Resistor: 0-20mA/200Ω Max. Linearity: <5% Repeat Accuracy: 0.02mm Operating Temperature: -25° C~+70° C Temperature Drift: <5% (Sr) Max. Load Current: - Leakage Current: - Surge Current: - Main Load Current: - Voltage Drop: - Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Output Indicator: - Switching Frequency: 100Hz Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: Yes EMC: RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration: IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection: IP67 Material Active Face: PBT	 
		91 69(Euro Style)	Non-flush	1.0-7.0			 

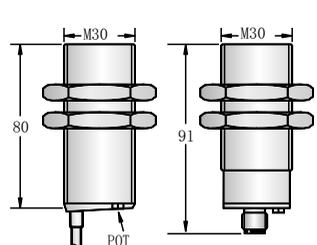
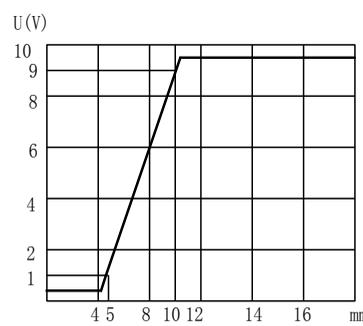
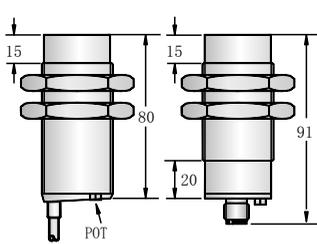
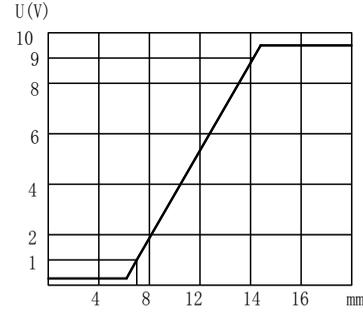
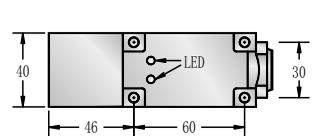
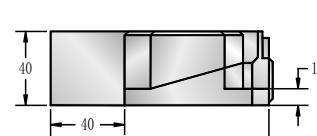
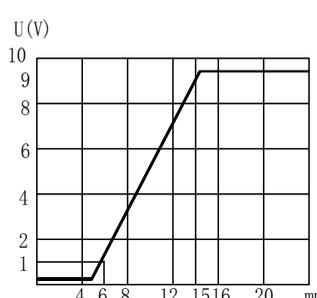
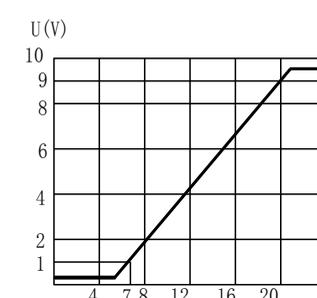
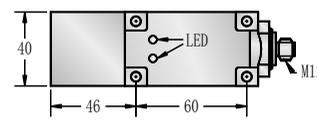
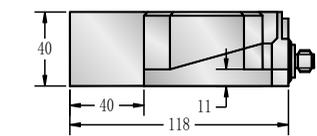
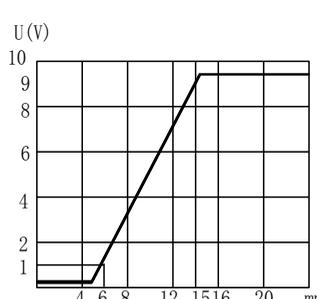
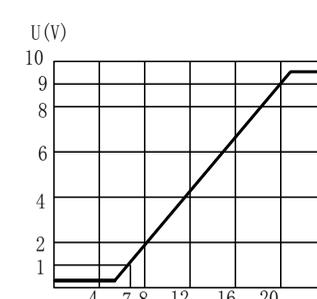
CURRENT OUTPUT ANALOG INDUCTIVE SENSOR M30, Q40

DIA.	HOUSING MATERIAL	DIMENSION (mm)	WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M30x1	Brass Stainless-steel	80 252(5.8Φ 3x0.5)		Flush	5.0~10.0	PNP-Analog 0~20mA	Nominal Voltage:----- 18~30VDC Max. Ripple:----- <10% No Load Current:----- <15mA Output Voltage/Load Resistor:----- Output Current/Load Resistor: 4~20mA/200Ω Max. Linearity:----- <10% Repeat Accuracy:----- 0.02mm Operating Temperature:----- -25° C~+70° C Temperature Drift:----- <5% (Sr) Max. Load Current:----- Leakage Current:----- Surge Current:----- Main Load Current:----- Voltage Drop:----- Response Time:----- 10ms/10ms Switching Hysteresis:----- <5% (Sr) Output Indicator:----- Switching Frequency:----- 100Hz Overload Trip Point:----- Short Circuit Protection:----- No Reverse polarity protection:----- Yes EMC:----- RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration:----- IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection:----- IP67 Material Active Face:----- PBT	
				Non-flush	7.0~14.0			
Q40	PBT Resin	40x40x118 242(5.8Φ 3x0.5)		Flush	6.0~15.0	PNP-Analog 0~20mA	Nominal Voltage:----- 18~30VDC Max. Ripple:----- <10% No Load Current:----- <15mA Output Voltage/Load Resistor:----- Output Current/Load Resistor: 4~20mA/200Ω Max. Linearity:----- <10% Repeat Accuracy:----- 0.02mm Operating Temperature:----- -25° C~+70° C Temperature Drift:----- <5% (Sr) Max. Load Current:----- Leakage Current:----- Surge Current:----- Main Load Current:----- Voltage Drop:----- Response Time:----- 10ms/10ms Switching Hysteresis:----- <5% (Sr) Output Indicator:----- Switching Frequency:----- 100Hz Overload Trip Point:----- Short Circuit Protection:----- No Reverse polarity protection:----- Yes EMC:----- RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration:----- IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection:----- IP67 Material Active Face:----- PBT	
				Non-flush	7.0~20.0			
Q40	PBT Resin	40x40x118 242(5.8Φ 3x0.5)		Flush	6.0~15.0	PNP-Analog 0~20mA	Nominal Voltage:----- 18~30VDC Max. Ripple:----- <10% No Load Current:----- <15mA Output Voltage/Load Resistor:----- Output Current/Load Resistor: 4~20mA/200Ω Max. Linearity:----- <10% Repeat Accuracy:----- 0.02mm Operating Temperature:----- -25° C~+70° C Temperature Drift:----- <5% (Sr) Max. Load Current:----- Leakage Current:----- Surge Current:----- Main Load Current:----- Voltage Drop:----- Response Time:----- 10ms/10ms Switching Hysteresis:----- <5% (Sr) Output Indicator:----- Switching Frequency:----- 100Hz Overload Trip Point:----- Short Circuit Protection:----- No Reverse polarity protection:----- Yes EMC:----- RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration:----- IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection:----- IP67 Material Active Face:----- PBT	
				Non-flush	7.0~20.0			

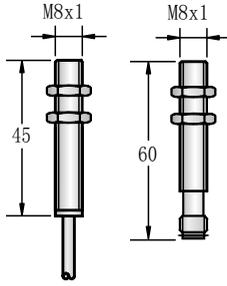
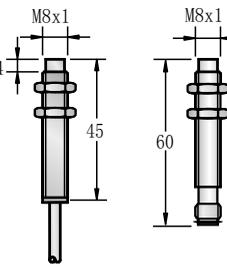
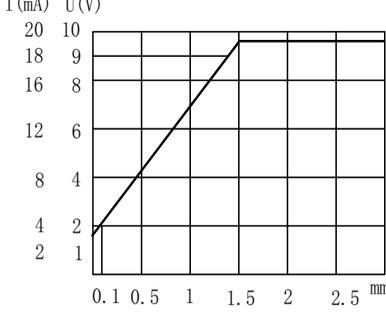
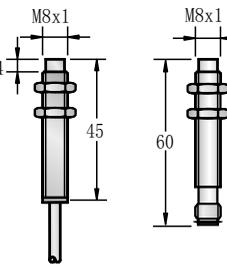
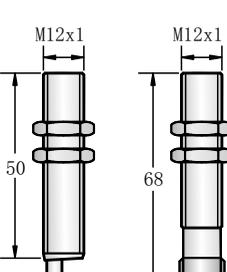
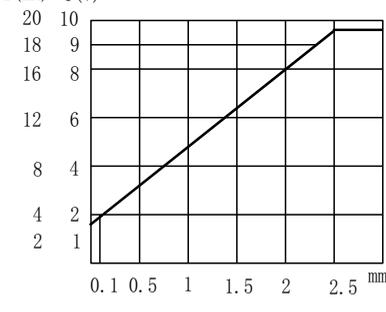
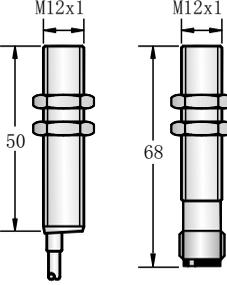
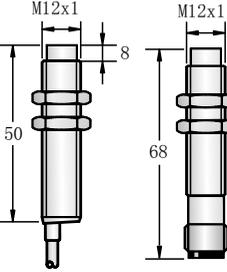
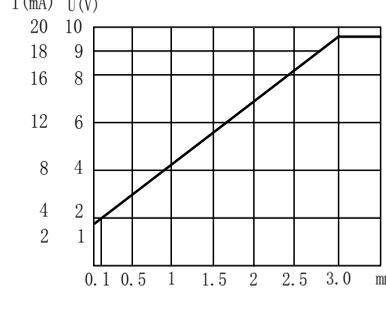
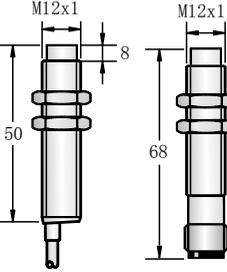
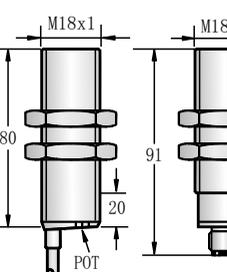
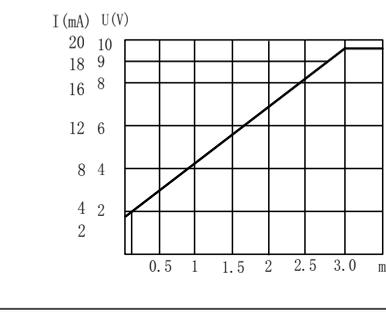
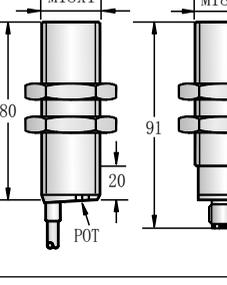
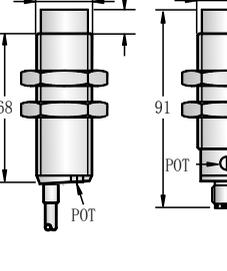
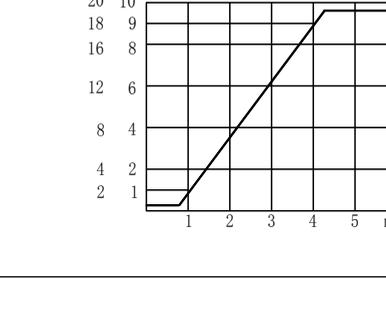
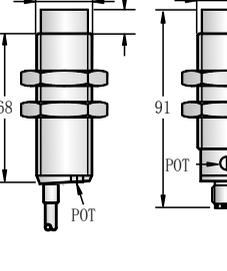
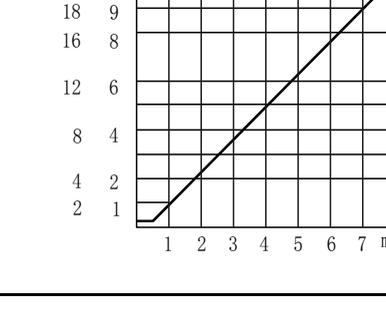
VOLTAGE OUTPUT ANALOG INDUCTIVE SENSOR ————— M8, M12, M18

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M8x1	Brass Stainless-steel	45 40(4Φ 3x0.15)	Flush	0.1-1.5	PNP-Analog 4-20mA	Nominal Voltage: 18-30VDC Max. Ripple: <10% No Load Current: <35mA Output Voltage/Load Resistor: 0-10VDC/ ≥ 2K Ω Output Current/Load Resistor: - Linearity: <5% Repeat Accuracy: 0.02mm Operating Temperature: -25° C~+70° C Temperature Drift: <5% (Sr) Max. Load Current: - Leakage Current: - Surge Current: - Main Load Current: - Voltage Drop: - Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Output Indicator: - Switching Frequency: 100Hz Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: Yes EMC: RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration: IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection: IP67 Material Active Face: PBT	
		60 15(Pico Style)	Non-flush	0.1-2.5			
M12x1	Brass Stainless-steel	50 67(4Φ 3x0.15)	Flush	0.1-3.0	PNP-Analog 4-20mA	Nominal Voltage: 18-30VDC Max. Ripple: <10% No Load Current: <35mA Output Voltage/Load Resistor: 0-10VDC/ ≥ 2K Ω Output Current/Load Resistor: - Linearity: <5% (Sr) Repeat Accuracy: 0.02mm Operating Temperature: -25° C~+70° C Temperature Drift: <5% (Sr) Max. Load Current: - Leakage Current: - Surge Current: - Main Load Current: - Voltage Drop: - Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Output Indicator: - Switching Frequency: 100Hz Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: Yes EMC: RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration: IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection: IP67 Material Active Face: PBT	
		68 30(Euro Style)	Non-flush	0.1-4.0			
M18x1	Brass Stainless-steel	80 142(5Φ 3x0.5)	Flush	1.0-4.0	PNP-Analog 0-20mA	Nominal Voltage: 18-30VDC Max. Ripple: <10% No Load Current: <15mA Output Voltage/Load Resistor: - Output Current/Load Resistor: 0-20mA/200Ω Max. Linearity: <5% Repeat Accuracy: 0.02mm Operating Temperature: -25° C~+70° C Temperature Drift: <5% (Sr) Max. Load Current: - Leakage Current: - Surge Current: - Main Load Current: - Voltage Drop: - Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Output Indicator: - Switching Frequency: 100Hz Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: Yes EMC: RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration: IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection: IP67 Material Active Face: PBT	
		91 69(Euro Style)	Non-flush	1.0-7.0			

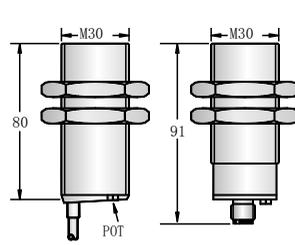
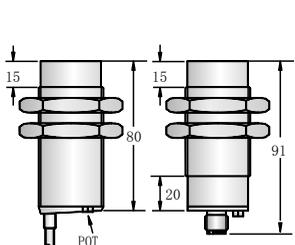
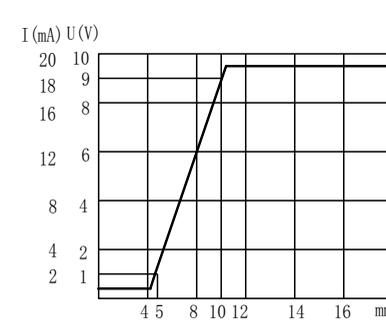
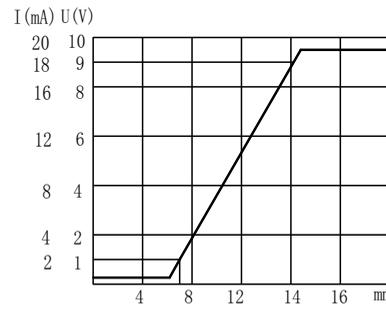
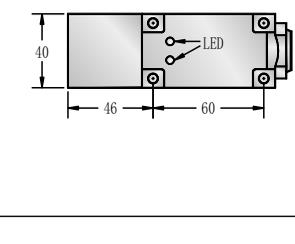
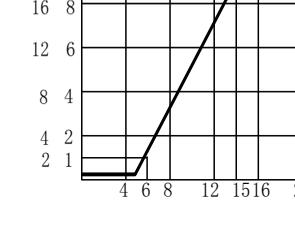
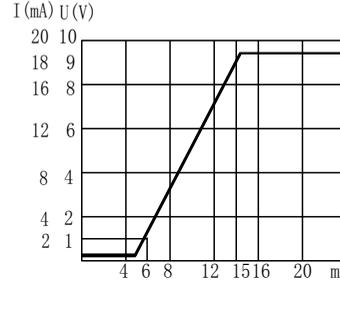
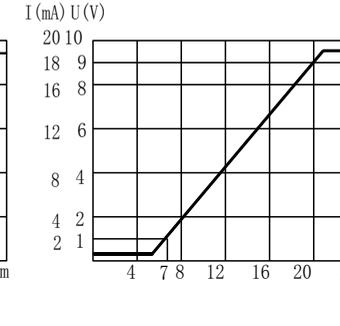
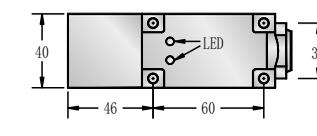
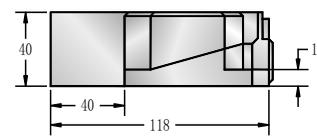
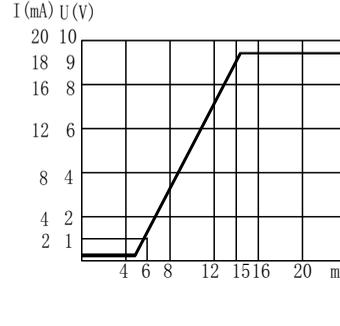
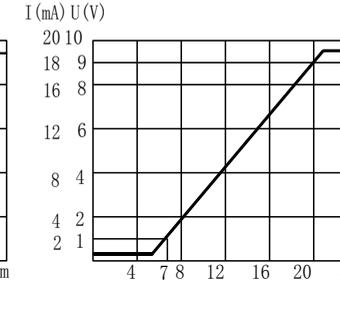
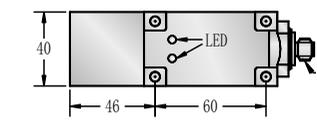
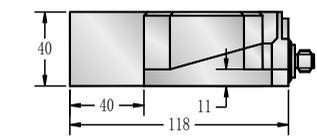
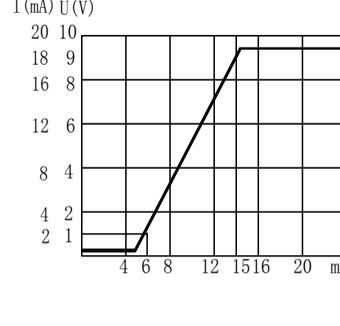
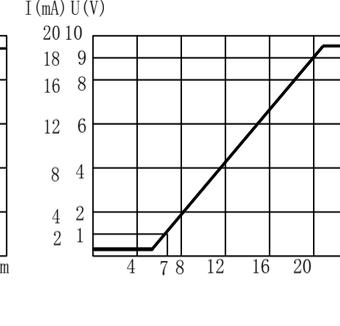
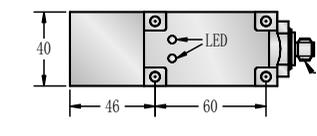
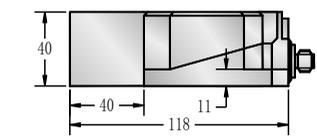
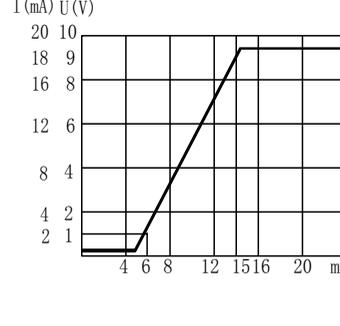
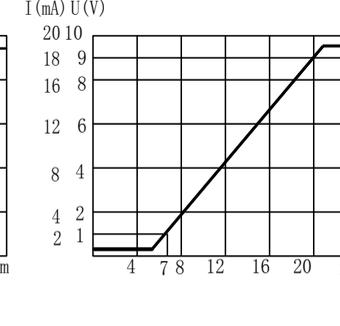
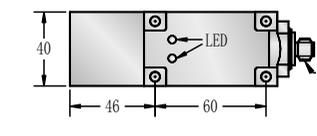
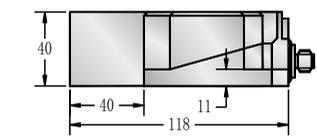
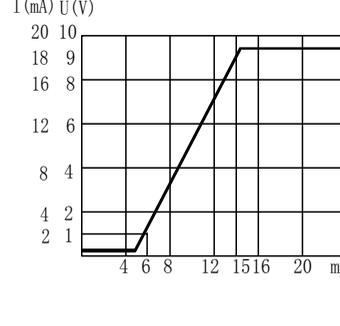
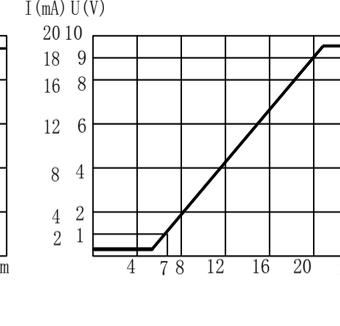
VOLTAGE OUTPUT ANALOG INDUCTIVE SENSOR M30, Q40

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M30x1	Brass Stainless-steel	80 252(5.8Φ 3x0.5) 91 188(Euro Style)	Flush	5.0~10.0	PNP-Analog 0~20mA	Nominal Voltage:----- 18~30VDC Max. Ripple:----- <10% No Load Current:----- <15mA Output Voltage/Load Resistor:----- Output Current/Load Resistor: 0~10VDC/≥ 4.7KΩ Linearity:----- <10% Repeat Accuracy:----- 0.02mm Operating Temperature:----- -25° C~+70° C Temperature Drift:----- <5%(Sr) Max. Load Current:----- Leakage Current:----- Surge Current:----- Main Load Current:----- Voltage Drop:----- Response Time:----- 10ms/10ms Switching Hysteresis:----- <5%(Sr) Output Indicator:----- Switching Frequency:----- 100Hz Overload Trip Point:----- / Short Circuit Protection:----- No Reverse polarity protection:----- Yes EMC:----- RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration:----- IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection:----- IP67 Material Active Face:----- PBT	  
			Non-flush	7.0~14.0			  
Q40	PBT Resin	40x40x118 242(5.8Φ 3x0.5)	Flush	6.0~15.0	PNP-Analog 0~20mA	Nominal Voltage:----- 18~30VDC Max. Ripple:----- <10% No Load Current:----- <15mA Output Voltage/Load Resistor:----- Output Current/Load Resistor: 0~10VDC/≥ 4.7KΩ Linearity:----- <10% Repeat Accuracy:----- 0.02mm Operating Temperature:----- -25° C~+70° C Temperature Drift:----- <5%(Sr) Max. Load Current:----- Leakage Current:----- Surge Current:----- Main Load Current:----- Voltage Drop:----- Response Time:----- 10ms/10ms Switching Hysteresis:----- <5%(Sr) Output Indicator:----- Switching Frequency:----- 100Hz Overload Trip Point:----- / Short Circuit Protection:----- No Reverse polarity protection:----- Yes EMC:----- RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration:----- IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection:----- IP67 Material Active Face:----- PBT	   
			Non-flush	7.0~20.0			   

VOLTAGE & CURRENT OUTPUT ANALOG INDUCTIVE SENSOR --- M8, M12, M18

DIA.	HOUSING MATERIAL	DIMENSION (mm)	WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)	
M8x1	Brass Stainless-steel	45	40(4Φ 3x0.15)	Flush	0.1-1.5	PNP-Analog 4-20mA	Nominal Voltage: 18-300VDC Max. Ripple: <10% No Load Current: <35mA Output Voltage/Load Resistor: 0-10VDC/≥ 2KΩ Output Current/Load Resistor: 4-20mA/0-400Ω Max. Linearity: <5% Repeat Accuracy: 0.02mm Operating Temperature: -25° C~+70° C Temperature Drift: <5% (Sr) Max. Load Current: - Leakage Current: - Surge Current: - Main Load Current: - Voltage Drop: - Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Output Indicator: - Switching Frequency: 100Hz Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: Yes EMC: RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration: IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection: IP67 Material Active Face: PBT	 	
		60	15(Pico Style)	Non-flush	0.1-2.5			 	
M12x1	Brass Stainless-steel	50	67(4Φ 3x0.15)	Flush	0.1-3.0	PNP-Analog 4-20mA	Nominal Voltage: 18-300VDC Max. Ripple: <10% No Load Current: <35mA Output Voltage/Load Resistor: 0-10VDC/≥ 2KΩ Output Current/Load Resistor: 4-20mA/0-400Ω Max. Linearity: <5% (Sr) Repeat Accuracy: 0.02mm Operating Temperature: -25° C~+70° C Temperature Drift: <5% (Sr) Max. Load Current: - Leakage Current: - Surge Current: - Main Load Current: - Voltage Drop: - Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Output Indicator: - Switching Frequency: 100Hz Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: Yes EMC: RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration: IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection: IP67 Material Active Face: PBT	 	
		68	30(Euro Style)	Non-flush	0.1-4.0			 	
M18x1	Brass Stainless-steel	80	142(5Φ 3x0.5)	Flush	1.0-4.0	PNP-Analog 0-20mA	Nominal Voltage: 18-300VDC Max. Ripple: <10% No Load Current: <15mA Output Voltage/Load Resistor: - Output Current/Load Resistor: 0-20mA/200Ω Max. Linearity: <5% Repeat Accuracy: 0.02mm Operating Temperature: -25° C~+70° C Temperature Drift: <5% (Sr) Max. Load Current: - Leakage Current: - Surge Current: - Main Load Current: - Voltage Drop: - Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Output Indicator: - Switching Frequency: 100Hz Overload Trip Point: / Short Circuit Protection: No Reverse polarity protection: Yes EMC: RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration: IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection: IP67 Material Active Face: PBT	 	
		91	69(Euro Style)	Non-flush	1.0-7.0			 	

VOLTAGE & CURRENT OUTPUT ANALOG INDUCTIVE SENSOR-----M30, Q40

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)	
M30x1	Brass Stainless-steel	80 252(5.8Φ 3x0.5) 91 188(Euro Style)	Flush	5.0~10.0	PNP-Analog 0~20mA	Nominal Voltage:----- 18~30VDC Max. Ripple:----- <10% No Load Current:----- <15mA Output Voltage/Load Resistor: 0~10VDC/ ≥ 4.7K Ω Output Current/Load Resistor: 0~20mA/0~200Ω Max. Linearity:----- <10% Repeat Accuracy:----- 0.02mm Operating Temperature:----- -25° C~+70° C Temperature Drift:----- <5%(Sr) Max. Load Current:----- - Leakage Current:----- - Surge Current:----- - Main Load Current:----- - Voltage Drop:----- - Response Time:----- 10ms/10ms Switching Hysteresis:----- <5%(Sr) Output Indicator:----- - Switching Frequency:----- 100Hz Overload Trip Point:----- / Short Circuit Protection:----- No Reverse polarity protection:----- Yes EMC:----- RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration:----- IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection:----- IP67 Material Active Face:----- PBT	 	 
			Non-flush	7.0~14.0			 	 
Q40	PBT Resin	40x40x118 242(5.8Φ 3x0.5)	Flush	6.0~15.0	PNP-Analog 0~20mA	Nominal Voltage:----- 18~30VDC Max. Ripple:----- <10% No Load Current:----- <15mA Output Voltage/Load Resistor: 0~10VDC/ ≥ 4.7K Ω Output Current/Load Resistor: 0~20mA/0~200Ω Max. Linearity:----- <10% Repeat Accuracy:----- 0.02mm Operating Temperature:----- -25° C~+70° C Temperature Drift:----- <5%(Sr) Max. Load Current:----- - Leakage Current:----- - Surge Current:----- - Main Load Current:----- - Voltage Drop:----- - Response Time:----- 10ms/10ms Switching Hysteresis:----- <5%(Sr) Output Indicator:----- - Switching Frequency:----- 100Hz Overload Trip Point:----- / Short Circuit Protection:----- No Reverse polarity protection:----- Yes EMC:----- RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration:----- IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection:----- IP67 Material Active Face:----- PBT	 	 
			Non-flush	7.0~20.0			 	 
Q40	PBT Resin	40x40x118 242(5.8Φ 3x0.5)	Flush	6.0~15.0	PNP-Analog 0~20mA	Nominal Voltage:----- 18~30VDC Max. Ripple:----- <10% No Load Current:----- <15mA Output Voltage/Load Resistor: 0~10VDC/ ≥ 4.7K Ω Output Current/Load Resistor: 0~20mA/0~200Ω Max. Linearity:----- <10% Repeat Accuracy:----- 0.02mm Operating Temperature:----- -25° C~+70° C Temperature Drift:----- <5%(Sr) Max. Load Current:----- - Leakage Current:----- - Surge Current:----- - Main Load Current:----- - Voltage Drop:----- - Response Time:----- 10ms/10ms Switching Hysteresis:----- <5%(Sr) Output Indicator:----- - Switching Frequency:----- 100Hz Overload Trip Point:----- / Short Circuit Protection:----- No Reverse polarity protection:----- Yes EMC:----- RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration:----- IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection:----- IP67 Material Active Face:----- PBT	 	 
Q40	PBT Resin	40x40x118 242(5.8Φ 3x0.5)	Non-flush	7.0~20.0	PNP-Analog 0~20mA	Nominal Voltage:----- 18~30VDC Max. Ripple:----- <10% No Load Current:----- <15mA Output Voltage/Load Resistor: 0~10VDC/ ≥ 4.7K Ω Output Current/Load Resistor: 0~20mA/0~200Ω Max. Linearity:----- <10% Repeat Accuracy:----- 0.02mm Operating Temperature:----- -25° C~+70° C Temperature Drift:----- <5%(Sr) Max. Load Current:----- - Leakage Current:----- - Surge Current:----- - Main Load Current:----- - Voltage Drop:----- - Response Time:----- 10ms/10ms Switching Hysteresis:----- <5%(Sr) Output Indicator:----- - Switching Frequency:----- 100Hz Overload Trip Point:----- / Short Circuit Protection:----- No Reverse polarity protection:----- Yes EMC:----- RFI>3V/m, EFT>1KV, ESD>4KV Shock/Vibration:----- IEC 60947-5-2, Part 7.4.1, Part 7.4.2 Protection:----- IP67 Material Active Face:----- PBT	 	 

DC LONG DISTANCE ANALOG INDUCTIVE SENSOR M12, M18

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M12x1	Brass Stainless-steel	50 67(4Φ 3x0.15) 68 30(Euro Style)	Flush	2.0-6.0	PNP-Analog 0-10VDC 0-20mA	<p>Nominal Voltage:----- 18-300VDC</p> <p>Max. Ripple:----- <10%</p> <p>No Load Current:----- <15mA</p> <p>Output Voltage/Load Resistor: 0-10VDC/ ≥ 4.7K Ω</p> <p>Output Current/Load Resistor: 0-20mA/200Ω Max.</p> <p>Linearity:----- <10% (Sr)</p> <p>Repeat Accuracy:----- 0.02mm</p> <p>Operating Temperature:----- -25° C--+70° C</p> <p>Temperature Drift:----- <5% (Sr)</p> <p>Max. Load Current:----- -</p> <p>Leakage Current:----- -</p> <p>Surge Current:----- -</p> <p>Main Load Current:----- -</p> <p>Voltage Drop:----- -</p> <p>Response Time:----- 10ms/10ms</p> <p>Switching Hysteresis:----- <15% (Sr)</p> <p>Output Indicator:----- -</p> <p>Switching Frequency:----- 100Hz</p> <p>Overload Trip Point:----- /</p> <p>Short Circuit Protection:----- No</p> <p>Reverse polarity protection:----- Yes</p> <p>EMC:----- RFI>3V/m, EFT>1KV, ESD>4KV</p> <p>Shock/Vibration:----- IEC 60947-5-2, Part 7.4.1, Part 7.4.2</p> <p>Protection:----- IP67</p> <p>Material Active Face:----- PBT</p>	
M18x1	Brass Stainless-steel	80 142(5Φ 3x0.5) 91 69(Euro Style)	Flush	2.0-6.0	PNP-Analog 0-10VDC 0-20mA	<p>Nominal Voltage:----- 18-300VDC</p> <p>Max. Ripple:----- <10%</p> <p>No Load Current:----- <15mA</p> <p>Output Voltage/Load Resistor: 0-10VDC/ ≥ 4.7K Ω</p> <p>Output Current/Load Resistor: 0-20mA/200Ω Max.</p> <p>Linearity:----- <5%</p> <p>Repeat Accuracy:----- 0.02mm</p> <p>Operating Temperature:----- -25° C--+70° C</p> <p>Temperature Drift:----- <5% (Sr)</p> <p>Max. Load Current:----- -</p> <p>Leakage Current:----- -</p> <p>Surge Current:----- -</p> <p>Main Load Current:----- -</p> <p>Voltage Drop:----- -</p> <p>Response Time:----- 10ms/10ms</p> <p>Switching Hysteresis:----- <15% (Sr)</p> <p>Output Indicator:----- -</p> <p>Switching Frequency:----- 100Hz</p> <p>Overload Trip Point:----- /</p> <p>Short Circuit Protection:----- No</p> <p>Reverse polarity protection:----- Yes</p> <p>EMC:----- RFI>3V/m, EFT>1KV, ESD>4KV</p> <p>Shock/Vibration:----- IEC 60947-5-2, Part 7.4.1, Part 7.4.2</p> <p>Protection:----- IP67</p> <p>Material Active Face:----- PBT</p>	

DC METAL FACE INDUCTIVE PROXIMITY SENSOR

M8, M12

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M8x1	Stainless-steel	30 40(3Φ 3x0.15) 45 47(3Φ 3x0.15) 45 12(Pico Style) 60 15(Pico Style) 53 17(Euro Style) 70 22(Euro Style)	Flush Non-flush	1.0 2.0 3.0 2.0 4.0	PNP N.O. PNP N.C. NPN N.O. NPN N.C.	Nominal Voltage: 10~30VDC Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <1.5V Switching Frequency: 2KHz Response Time: 1ms/0.1ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: 25° C~+75° C Temperature Drift: <10% (Sr) Short Circuit Protection: Yes Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: Stainless Steel	
M12x1	Stainless-steel	30 60(4Φ 3x0.15) 50 67(4Φ 3/4x0.15) 60 20(Euro Style) 68 25(Euro Style)	Flush Non-flush	2.0 4.0 6.0 4.0 4.0 10.0	PNP N.O. PNP N.C. NPN N.O. NPN N.C. N.O. N.C.	Nominal Voltage: 10~30VDC 10~55VDC 10~60VDC Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <1.5V <2.0V (Flush, Sn=6mm) <2.0V (Non-flush, Sn=8mm, 10mm) Switching Frequency: 2KHz (Flush, Sn=2mm) 1KHz (Flush, Sn=4mm), (Non-flush, Sn=4mm) 500Hz (Non-flush, Sn=8mm) 800Hz (Flush, Sn=6mm) 400Hz (Non-flush, Sn=10mm) Response Time: 0.1ms/0.1ms (Flush, Sn=2mm) 0.2ms/0.2ms (Flush, Sn=4mm), (Non-flush, Sn=4mm) 0.3ms/0.3ms (Non-flush, Sn=10mm) 0.5ms/0.5ms (Non-flush, Sn=8mm) Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: Stainless Steel	

DC METAL FACE INDUCTIVE PROXIMITY SENSOR

M18, M30

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS (Unit: mm)
M18x1	Stainless-steel	35 132(5Φ 3/4x0.34) 50 132(5Φ 3/4x0.34) 55 153(5Φ 3/4x0.34) 48 50(Euro Style) 53 50(Euro Style) 63.5 92(Euro Style) 79 94(Euro Style)	Flush Non-flush	5.0 8.0 12.0 8.0 16.0 20.0	PNP N.O. PNP N.C. NPN N.O. NPN N.C. N.O. N.C.	<p>Nominal Voltage: 10~30VDC 10~55VDC 10~60VDC</p> <p>Ripple: <10%</p> <p>No Load Current: <10mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <0.01mA</p> <p>Voltage Drop: <1.5V <2.0V → (Flush, Sn=12mm, 16mm) (Non-flush, Sn=16mm, 20mm)</p> <p>Switching Frequency: 1KHz → (Flush, Sn=5mm) 500Hz → (Flush, Sn=8mm), (Non-flush, Sn=8mm) 300Hz → (Flush, Sn=12mm) 150Hz → (Non-flush, Sn=16mm) 100Hz → (Non-flush, Sn=20mm)</p> <p>Response Time: 0.1ms/0.1ms → (Flush, Sn=2mm) 0.2ms/0.2ms → (Flush, Sn=4mm), (Non-flush, Sn=4mm) 0.3ms/0.3ms → (Non-flush, Sn=10mm) 0.5ms/0.5ms → (Non-flush, Sn=8mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: -25°C~+75°C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: 220mA</p> <p>Short Circuit Protection: Yes</p> <p>Reverse polarity protection: Yes</p> <p>Protection: IP67</p> <p>Material Active Face: Stainless Steel</p>	
M30x1	Stainless-steel	35 180(5.8Φ 3/4x0.34) 40 182(5.8Φ 3/4x0.34) 50 195(5.8Φ 3/4x0.34) 55 218(5.8Φ 3/4x0.34) 48 155(Euro Style) 53 145(Euro Style) 63.5 160(Euro Style) 66.3 168(Euro Style) 78 188(Euro Style)	Flush Non-flush	10.0 16.0 22.0 15.0 25.0 40.0	PNP N.O. PNP N.C. NPN N.O. NPN N.C. N.O. N.C.	<p>Nominal Voltage: 10~30VDC 10~55VDC 10~60VDC</p> <p>Ripple: <10%</p> <p>No Load Current: <10mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <0.01mA</p> <p>Voltage Drop: <1.5V <2.0V → (Flush, Sn=16mm) (Non-flush, Sn=25mm)</p> <p>Switching Frequency: 300Hz → (Flush, Sn=10mm) 150Hz → (Flush, Sn=16mm, 22mm) 100Hz → (Non-flush, Sn=15mm, 40mm)</p> <p>Response Time: 0.5ms/0.5ms → (Flush, Sn=10mm, 22mm) 1ms/1ms → (Flush, Sn=16mm) (Non-flush, Sn=15mm, 25mm, 40mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: -25°C~+75°C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: 220mA</p> <p>Short Circuit Protection: Yes</p> <p>Reverse polarity protection: Yes</p> <p>Protection: IP67</p> <p>Material Active Face: Stainless Steel</p>	

AC METAL FACE INDUCTIVE PROXIMITY SENSOR ——— M12, M18, M30

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M12x1	Stainless-steel	60 77(4Φ 3x0.34) 68 30(Micro Style)	Flush Non-flush	2.0 4.0	N.O. N.C.	<p>Nominal Voltage: ————— 20~250VAC</p> <p>No Load Current: ————— <1.8mA</p> <p>Max. Load Current: ————— 400mA</p> <p>Leakage Current: ————— <1.8mA</p> <p>Surge Current : ————— <5A(20ms)</p> <p>Min. Load Current: ————— <5mA</p> <p>Voltage Drop: ————— 8VAC at 400mA</p> <p>Switching Frequency: ————— <25Hz</p> <p>Response Time: ————— 10ms/10ms</p> <p>Switching Hysteresis: ————— <15% (Sr)</p> <p>Repeat Accuracy: ————— <1.0% (Sr)</p> <p>Operating Temperature: ————— 25° C~+75° C</p> <p>Temperature Drift: ————— <10% (Sr)</p> <p>Output Indicator: ————— Red/Yellow LED</p> <p>Short Circuit Protection: ————— No</p> <p>Overload Trip Point: ————— 220mA</p> <p>Reverse polarity protection: ————— Yes</p> <p>Protection: ————— IP67</p> <p>Material Active Face: ————— Stainless Steel</p>	<p>Technical drawings of M12x1 sensor showing flush and non-flush mounting styles. Dimensions include: M12x1 thread, 60mm total length for flush, 68mm for non-flush, 8mm sensor face diameter, 15mm mounting hole diameter, 46mm distance to LED, 38mm distance to LED for non-flush, and 1/2"-20UNF mounting hole.</p>
M18x1	Stainless-steel	55 162(5Φ 3x0.34) 79 70(Euro Style)	Flush Non-flush	5.0 8.0	N.O. N.C.	<p>Nominal Voltage: ————— 20~250VAC</p> <p>No Load Current: ————— <1.8mA</p> <p>Max. Load Current: ————— 400mA</p> <p>Leakage Current: ————— <1.8mA</p> <p>Surge Current : ————— <5A(20ms)</p> <p>Min. Load Current: ————— <5mA</p> <p>Voltage Drop: ————— 8VAC at 400mA</p> <p>Switching Frequency: ————— <25Hz</p> <p>Response Time: ————— 10ms/10ms</p> <p>Switching Hysteresis: ————— <15% (Sr)</p> <p>Repeat Accuracy: ————— <1.0% (Sr)</p> <p>Operating Temperature: ————— 25° C~+75° C</p> <p>Temperature Drift: ————— <10% (Sr)</p> <p>Output Indicator: ————— Red/Yellow LED</p> <p>Short Circuit Protection: ————— No</p> <p>Overload Trip Point: ————— 220mA</p> <p>Reverse polarity protection: ————— Yes</p> <p>Protection: ————— IP67</p> <p>Material Active Face: ————— Stainless Steel</p>	<p>Technical drawings of M18x1 sensor showing flush and non-flush mounting styles. Dimensions include: M18x1 thread, 55mm total length for flush, 79mm for non-flush, 12mm sensor face diameter, 5mm mounting hole diameter, 65mm distance to LED, and 1/2"-20UNF mounting hole.</p>
M30x1	Stainless-steel	55 247(5.8Φ 3x0.5) 78 147(Euro Style)	Flush Non-flush	10.0 15.0 15.0 20.0	N.O. N.C.	<p>Nominal Voltage: ————— 20~250VAC</p> <p>No Load Current: ————— <1.8mA</p> <p>Max. Load Current: ————— 400mA</p> <p>Leakage Current: ————— <1.8mA</p> <p>Surge Current : ————— <5A(20ms)</p> <p>Min. Load Current: ————— <5mA</p> <p>Voltage Drop: ————— 8VAC at 400mA</p> <p>Switching Frequency: ————— <25Hz</p> <p>Response Time: ————— 10ms/10ms</p> <p>Switching Hysteresis: ————— <15% (Sr)</p> <p>Repeat Accuracy: ————— <1.0% (Sr)</p> <p>Operating Temperature: ————— 25° C~+75° C</p> <p>Temperature Drift: ————— <10% (Sr)</p> <p>Output Indicator: ————— Red/Yellow LED</p> <p>Short Circuit Protection: ————— No</p> <p>Overload Trip Point: ————— 220mA</p> <p>Reverse polarity protection: ————— Yes</p> <p>Protection: ————— IP67</p> <p>Material Active Face: ————— Stainless Steel</p>	<p>Technical drawings of M30x1 sensor showing flush and non-flush mounting styles. Dimensions include: M30 thread, 55mm total length for flush, 78mm for non-flush, 15mm sensor face diameter, 35mm mounting hole diameter, 15mm distance to LED, and 1/2"-20UNF mounting hole.</p>

AC/DC METAL FACE INDUCTIVE PROXIMITY SENSOR-----M12, M18, M30

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M12x1	Stainless-steel	60 77(4Φ 3x0.34) 68 30(Micro Style)	Flush Non-flush	2.0 4.0	N.O. N.C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 100mA Leakage Current: <2.5mA Surge Current: <2.2A(20ms) Min. Load Current: <5mA Voltage Drop: ≤ 10VAC, ≤ 8VDC</p> <p>Switching Frequency: 25Hz(AC); 40Hz(DC) Response Time: 10ms/10ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: No Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: Stainless Steel</p>	<p>Technical drawings of M12x1 sensor showing flush and non-flush mounting styles with dimensions. Dimensions include: M12x1 thread, 60mm total length, 8mm mounting hole offset, 15mm sensing range for flush, 46mm length for non-flush, 68mm total length for non-flush, 8mm mounting hole offset, 4LED indicator, 15mm LED offset, 8.5mm LED diameter, and 1/2"-20UNF base.</p>
M18x1	Stainless-steel	55 162(5Φ 3x0.34) 79 70(Micro Style)	Flush Non-flush	5.0 8.0	N.O. N.C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 200mA Leakage Current: <2.5mA Surge Current: <2.2A(20ms) Min. Load Current: <5mA Voltage Drop: ≤ 10VAC, ≤ 8VDC</p> <p>Switching Frequency: 25Hz(AC); 40Hz(DC) Response Time: 10ms/10ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: No Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: Stainless Steel</p>	<p>Technical drawings of M18x1 sensor showing flush and non-flush mounting styles with dimensions. Dimensions include: M18x1 thread, 55mm total length, 12mm mounting hole offset, 5mm sensing range for flush, 65mm length for non-flush, 79mm total length for non-flush, 12mm mounting hole offset, 4LED indicator, 15mm LED offset, 8.5mm LED diameter, and 1/2"-20UNF base.</p>
M30x1	Stainless-steel	55 247(5.8Φ 3x0.5) 78 147(Micro Style)	Flush Non-flush	10.0 15.0 20.0	N.O. N.C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 200mA Leakage Current: <2.5mA Surge Current: <2.2A(20ms) Min. Load Current: <5mA Voltage Drop: ≤ 10VAC, ≤ 8VDC</p> <p>Switching Frequency: 25Hz(AC); 40Hz(DC) Response Time: 10ms/10ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: 25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: No Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: Stainless Steel</p>	<p>Technical drawings of M30x1 sensor showing flush and non-flush mounting styles with dimensions. Dimensions include: M30 thread, 55mm total length, 15mm mounting hole offset, 5mm sensing range for flush, 35mm length for non-flush, 79mm total length for non-flush, 15mm mounting hole offset, 4LED indicator, 15mm LED offset, 8.5mm LED diameter, and 1/2"-20UNF base.</p>

DC METAL FACE INDUCTIVE PROXIMITY SENSOR ----- Ferrous Only Sensing

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M12x1	Stainless-steel	50 67(4Φ 3x0.34) 68 30(Euro Style)	Flush Non-flush	2.0 4.0	PNP N.O. PNP N.C. NPN N.O. NPN N.C.	<p>Nominal Voltage: 10-30VDC</p> <p>Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <1.5V</p> <p>Switching Frequency: 2KHz → (Flush, Sn-2mm) 1KHz → (Non-flush, Sn-4mm)</p> <p>Response Time: 0.1ms/0.1ms → (Flush, Sn-2mm) 0.2ms/0.2ms → (Flush, Sn-4mm)</p> <p>Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: Stainless Steel</p>	
M18x1	Stainless-steel	55 162(5Φ 3x0.34) 79 70(Euro Style)	Flush Non-flush	5.0 8.0	N.O. N.C.	<p>Nominal Voltage: 10-30VDC</p> <p>Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <1.5V</p> <p>Switching Frequency: 1KHz → (Flush, Sn-5mm) 500Hz → (Non-flush, Sn-8mm)</p> <p>Response Time: 0.2ms/0.2ms → (Flush, Sn-5mm) 0.5ms/0.5ms → (Flush, Sn-8mm)</p> <p>Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: Stainless Steel</p>	
M30x1	Stainless-steel	55 247(5.8Φ 3x0.5) 78 147(Euro Style)	Flush Non-flush	10.0 15.0 20.0	N.O. N.C.	<p>Nominal Voltage: 20-250VAC/20-250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 200mA Leakage Current: <2.5mA Surge Current: <2.2A(20ms) Min. Load Current: <5mA Voltage Drop: ≤ 10VAC, ≤ 8VDC</p> <p>Switching Frequency: 25Hz (AC); 40Hz (DC) Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: 25° C~+75° C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: No Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: Stainless Steel</p>	

DC METAL FACE INDUCTIVE PROXIMITY SENSOR-----Non-Ferrous Only Sensing

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M12x1	Stainless-steel	50 67(4Φ 3x0.34) 68 30(Euro Style)	Flush Non-flush	2.0 4.0	PNP N.O. PNP N.C. NPN N.O. NPN N.C.	<p>Nominal Voltage: 10-30VDC</p> <p>Ripple: <10%</p> <p>No Load Current: <10mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <0.01mA</p> <p>Voltage Drop: <1.5V</p> <p>Switching Frequency: 2KHz → (Flush, Sn-2mm) 1KHz → (Non-flush, Sn-4mm)</p> <p>Response Time: 0.1ms/0.1ms → (Flush, Sn-2mm) 0.2ms/0.2ms → (Flush, Sn-4mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: -25° C~+75° C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: 220mA</p> <p>Short Circuit Protection: Yes</p> <p>Reverse polarity protection: Yes</p> <p>Protection: IP67</p> <p>Material Active Face: Stainless Steel</p>	
M18x1	Stainless-steel	55 162(5Φ 3x0.34) 79 70(Euro Style)	Flush Non-flush	5.0 8.0	N.O. N.C.	<p>Nominal Voltage: 10-30VDC</p> <p>Ripple: <10%</p> <p>No Load Current: <10mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <0.01mA</p> <p>Voltage Drop: <1.5V</p> <p>Switching Frequency: 1KHz → (Flush, Sn-5mm) 500Hz → (Non-flush, Sn-8mm)</p> <p>Response Time: 0.2ms/0.2ms → (Flush, Sn-5mm) 0.5ms/0.5ms → (Flush, Sn-8mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: -25° C~+75° C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: 220mA</p> <p>Short Circuit Protection: Yes</p> <p>Reverse polarity protection: Yes</p> <p>Protection: IP67</p> <p>Material Active Face: Stainless Steel</p>	
M30x1	Stainless-steel	55 247(5.8Φ 3x0.5) 78 147(Euro Style)	Flush Non-flush	10.0 15.0 20.0	N.O. N.C.	<p>Nominal Voltage: 20-250VAC/20-250VDC</p> <p>No Load Current: <2.5mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <2.5mA</p> <p>Surge Current: <2.2A(20ms)</p> <p>Min. Load Current: <5mA</p> <p>Voltage Drop: ≤ 10VAC, ≤ 8VDC</p> <p>Switching Frequency: 25Hz (AC); 40Hz (DC)</p> <p>Response Time: 10ms/10ms</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: 25° C~+75° C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Short Circuit Protection: No</p> <p>Overload Trip Point: 220mA</p> <p>Reverse polarity protection: Yes</p> <p>Protection: IP67</p> <p>Material Active Face: Stainless Steel</p>	

DC WELD FIELD IMMUNE INDUCTIVE PROXIMITY SENSOR --- M8, M12, M18, M30

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS (Unit: mm)
M8x1	Stainless-steel	30 36 (3Φ 3x0.15) 45 40 (3Φ 3/4x0.15) 60 17 (Pico Style) 70 25 (Euro Style)	Flush Non-flush	1.0 2.0	PNP N.O. PNP N.C. NPN N.O. NPN N.C.	<p>Nominal Voltage: 10-30VDC</p> <p>Ripple: <10%</p> <p>No Load Current: <10mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <0.01mA</p> <p>Voltage Drop: <1.5V</p> <p>Switching Frequency: 2KHz</p> <p>Response Time: 0.1ms/0.1ms</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: -25° C~+75° C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: 220mA</p> <p>Short Circuit Protection: Yes</p> <p>Reverse polarity protection: Yes</p> <p>Protection: IP67</p> <p>Material Active Face: PTFE</p>	
M12x1	PTFE Stainless-steel	30 60 (4Φ 3x0.15) 50 68 (4Φ 3x0.15) 50 25 (Euro Style) 68 32 (Euro Style)	Flush Non-flush	2.0 4.0	PNP N.O. PNP N.C. NPN N.O. NPN N.C.	<p>Nominal Voltage: 10-30VDC</p> <p>Ripple: <10%</p> <p>No Load Current: <10mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <0.01mA</p> <p>Voltage Drop: <1.5V</p> <p>Switching Frequency: 2KHz (Flush, Sn=2mm) 1KHz (Non-flush, Sn=4mm)</p> <p>Response Time: 0.1ms/0.1ms (Flush, Sn=2mm) 0.2ms/0.2ms (Flush, Sn=4mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: -25° C~+75° C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: 220mA</p> <p>Short Circuit Protection: Yes</p> <p>Reverse polarity protection: Yes</p> <p>Protection: IP67</p> <p>Material Active Face: PTFE</p>	
M18x1	PTFE Stainless-steel	35 132 (5Φ 3x0.3) 55 154 (5Φ 3x0.3) 48 50 (Euro Style) 53 52 (Euro Style) 79 94 (Euro Style)	Flush Non-flush	5.0 8.0	PNP N.O. PNP N.C. NPN N.O. NPN N.C.	<p>Nominal Voltage: 10-30VDC</p> <p>Ripple: <10%</p> <p>No Load Current: <10mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <0.01mA</p> <p>Voltage Drop: <1.5V</p> <p>Switching Frequency: 1KHz (Flush, Sn=5mm) 500Hz (Non-flush, Sn=8mm)</p> <p>Response Time: 0.2ms/0.2ms (Flush, Sn=5mm) 0.5ms/0.5ms (Flush, Sn=8mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: -25° C~+75° C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: 220mA</p> <p>Short Circuit Protection: Yes</p> <p>Reverse polarity protection: Yes</p> <p>Protection: IP67</p> <p>Material Active Face: PTFE</p>	
M30x1	PTFE Stainless-steel	35 180 (5Φ 3x0.5) 40 182 (5Φ 3x0.5) 55 218 (5Φ 3x0.5) 48 50 (Euro Style) 53 52 (Euro Style) 78 188 (Euro Style)	Flush Non-flush	10.0 15.0	PNP N.O. PNP N.C. NPN N.O. NPN N.C.	<p>Nominal Voltage: 10-30VDC</p> <p>Ripple: <10%</p> <p>No Load Current: <10mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <0.01mA</p> <p>Voltage Drop: <1.5V</p> <p>Switching Frequency: 300Hz (Flush, Sn=10mm) 150Hz (Non-flush, Sn=15mm)</p> <p>Response Time: 0.5ms/0.5ms (Flush, Sn=10mm) 1ms/1ms (Flush, Sn=15mm)</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: -25° C~+75° C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Overload Trip Point: 220mA</p> <p>Short Circuit Protection: Yes</p> <p>Reverse polarity protection: Yes</p> <p>Protection: IP67</p> <p>Material Active Face: PTFE</p>	

AC WELD FIELD IMMUNE INDUCTIVE PROXIMITY SENSOR-----M12, M18, M30

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M12x1	PTFE Stainless-steel	60 77(4Φ 3x0.34) 68 30(Micro Style)	Flush Non-flush	2.0 4.0	N.O. N.C.	<p>Nominal Voltage:----- 20~250VAC</p> <p>No Load Current:-----<1.8mA</p> <p>Max. Load Current:-----400mA</p> <p>Leakage Current:-----<1.8mA</p> <p>Surge Current :-----<5A(20ms)</p> <p>Min. Load Current:-----<5mA</p> <p>Voltage Drop:-----8VAC at 400mA</p> <p>Switching Frequency:-----<25Hz</p> <p>Response Time:-----10ms/10ms</p> <p>Switching Hysteresis:-----<15% (Sr)</p> <p>Repeat Accuracy:-----<1.0% (Sr)</p> <p>Operating Temperature:-----25° C~+75° C</p> <p>Temperature Drift:-----<10% (Sr)</p> <p>Output Indicator:-----Red/Yellow LED</p> <p>Short Circuit Protection:-----No</p> <p>Overload Trip Point:-----220mA</p> <p>Reverse polarity protection:-----Yes</p> <p>Protection:-----IP67</p> <p>Material Active Face:-----PTFE</p>	
M18x1	PTFE Stainless-steel	55 162(5Φ 3x0.34) 79 70(Micro Style)	Flush Non-flush	5.0 8.0	N.O. N.C.	<p>Nominal Voltage:----- 20~250VAC</p> <p>No Load Current:-----<1.8mA</p> <p>Max. Load Current:-----400mA</p> <p>Leakage Current:-----<1.8mA</p> <p>Surge Current :-----<5A(20ms)</p> <p>Min. Load Current:-----<5mA</p> <p>Voltage Drop:-----8VAC at 400mA</p> <p>Switching Frequency:-----<25Hz</p> <p>Response Time:-----10ms/10ms</p> <p>Switching Hysteresis:-----<15% (Sr)</p> <p>Repeat Accuracy:-----<1.0% (Sr)</p> <p>Operating Temperature:-----25° C~+75° C</p> <p>Temperature Drift:-----<10% (Sr)</p> <p>Output Indicator:-----Red/Yellow LED</p> <p>Short Circuit Protection:-----No</p> <p>Overload Trip Point:-----220mA</p> <p>Reverse polarity protection:-----Yes</p> <p>Protection:-----IP67</p> <p>Material Active Face:-----PTFE</p>	
M30x1	PTFE Stainless-steel	80 247(5.8Φ 3x0.5) 78 147(Micro Style)	Flush Non-flush	10.0 15.0	N.O. N.C.	<p>Nominal Voltage:----- 20~250VAC</p> <p>No Load Current:-----<1.8mA</p> <p>Max. Load Current:-----400mA</p> <p>Leakage Current:-----<1.8mA</p> <p>Surge Current :-----<5A(20ms)</p> <p>Min. Load Current:-----<5mA</p> <p>Voltage Drop:-----8VAC at 400mA</p> <p>Switching Frequency:-----<25Hz</p> <p>Response Time:-----10ms/10ms</p> <p>Switching Hysteresis:-----<15% (Sr)</p> <p>Repeat Accuracy:-----<1.0% (Sr)</p> <p>Operating Temperature:-----25° C~+75° C</p> <p>Temperature Drift:-----<10% (Sr)</p> <p>Output Indicator:-----Red/Yellow LED</p> <p>Short Circuit Protection:-----No</p> <p>Overload Trip Point:-----220mA</p> <p>Reverse polarity protection:-----Yes</p> <p>Protection:-----IP67</p> <p>Material Active Face:-----Stainless Steel</p>	

AC/DC WELD FIELD IMMUNE INDUCTIVE PROXIMITY SENSOR—M12, M18, M30

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M12x1	PTFE Stainless-steel	60 77(4Φ 3x0.34) 68 30(Micro Style)	Flush Non-flush	2.0 4.0	N.O. N.C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 100mA Leakage Current: <2.5mA Surge Current: <2.2A(20ms) Min. Load Current: <5mA Voltage Drop: ≤ 10VAC, ≤ 8VDC</p> <p>Switching Frequency: 25Hz(AC); 40Hz(DC) Response Time: 10ms/10ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: No Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: PTFE</p>	<p>Technical drawings of M12x1 sensor showing flush and non-flush mounting styles with dimensions. Dimensions include: M12x1 thread, 60mm total length, 8mm mounting hole offset, 15mm sensing range for flush, 46mm total length for non-flush, 38mm total length for non-flush, 8.5mm mounting hole offset, and 1/2"-20UNF base.</p>
M18x1	PTFE Stainless-steel	55 162(5Φ 3x0.34) 79 70(Micro Style)	Flush Non-flush	5.0 8.0	N.O. N.C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 200mA Leakage Current: <2.5mA Surge Current: <2.2A(20ms) Min. Load Current: <5mA Voltage Drop: ≤ 10VAC, ≤ 8VDC</p> <p>Switching Frequency: 25Hz(AC); 40Hz(DC) Response Time: 10ms/10ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: No Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: Stainless Steel</p>	<p>Technical drawings of M18x1 sensor showing flush and non-flush mounting styles with dimensions. Dimensions include: M18x1 thread, 55mm total length, 12mm mounting hole offset, 5mm sensing range for flush, 65mm total length for non-flush, 79mm total length for non-flush, 15mm mounting hole offset, 4LED indicator, and 1/2"-20UNF base.</p>
M30x1	PTFE Stainless-steel	80 217(5.8Φ 3x0.5) 78 187(Micro Style)	Flush Non-flush	10.0 15.0 20.0	N.O. N.C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>No Load Current: <2.5mA Max. Load Current: 200mA Leakage Current: <2.5mA Surge Current: <2.2A(20ms) Min. Load Current: <5mA Voltage Drop: ≤ 10VAC, ≤ 8VDC</p> <p>Switching Frequency: 25Hz(AC); 40Hz(DC) Response Time: 10ms/10ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: No Overload Trip Point: 220mA Reverse polarity protection: Yes Protection: IP67 Material Active Face: Stainless Steel</p>	<p>Technical drawings of M30x1 sensor showing flush and non-flush mounting styles with dimensions. Dimensions include: M30 thread, 80mm total length, 15mm mounting hole offset, 20mm sensing range for flush, 78mm total length for non-flush, 15mm mounting hole offset, 4LED indicator, and 1/2"-20UNF base.</p>

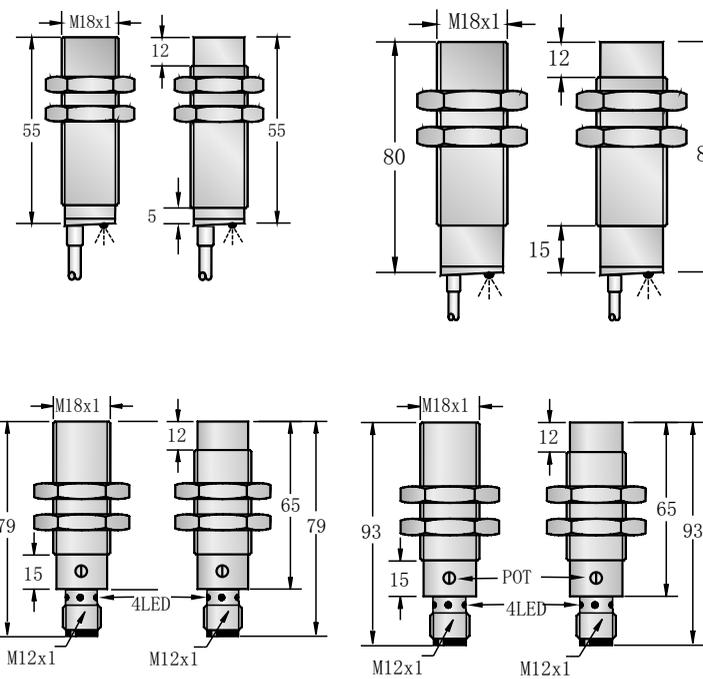
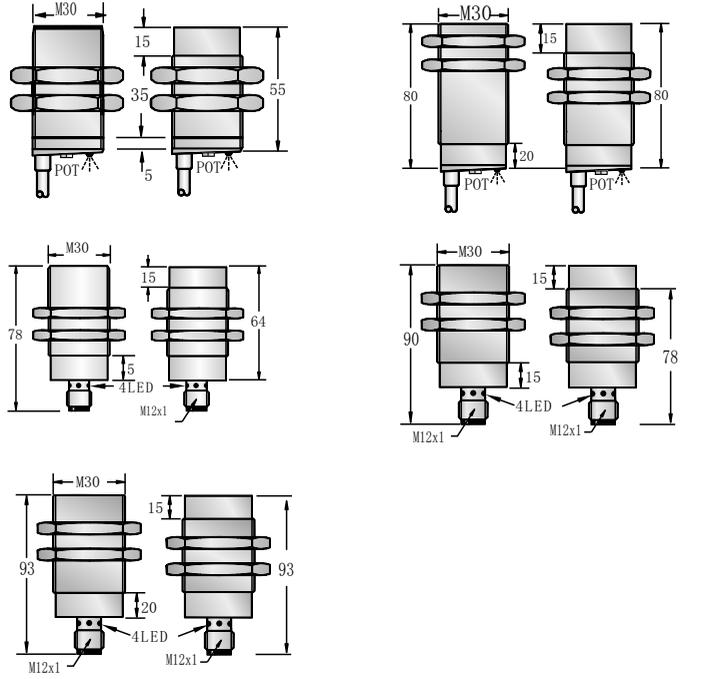
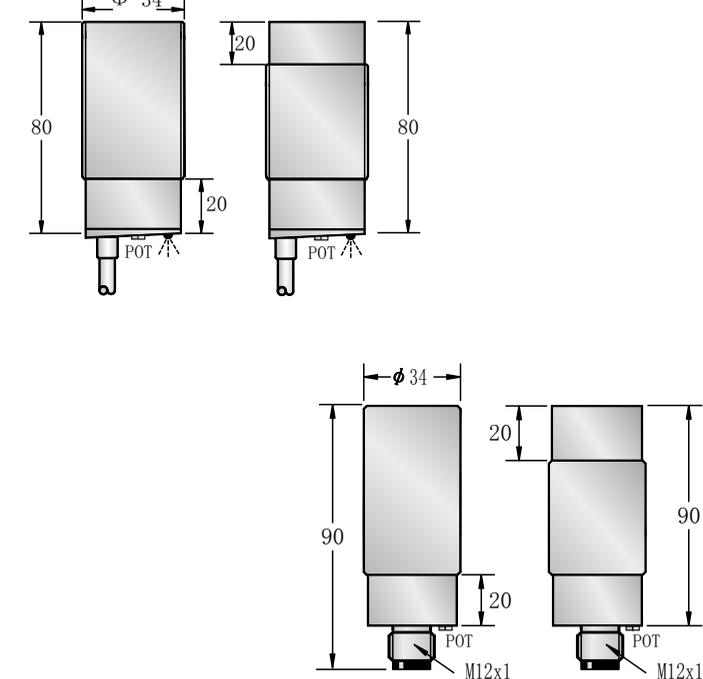
DC CAPACITIVE PROXIMITY SENSOR

Φ 6.5, M8, M12

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)		
Φ 6.5	Brass	30 36(3Φ 3x0.15) 45 40(3Φ 3/4x0.15)	Flush	1.0 2.0 3.0	NPN N.O. NPN N.C. PNP N.O. PNP N.C.	Nominal Voltage: 10~30VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <2V Switching Frequency: 600Hz Response Time: 1.5ms/1.5ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT			
		45 14(Pico Style) 60 17(Pico Style)					Non-flush	2.0 4.0 6.0	
		53 20(Euro Style) 70 25(Euro Style)							
M8	Brass	30 36(3Φ 3x0.15) 45 40(3Φ 3/4x0.15)	Flush	1.0 2.0 3.0	NPN N.O. NPN N.C. PNP N.O. PNP N.C.	Nominal Voltage: 10~30VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <2V Switching Frequency: 100Hz Response Time: 1.5ms/1.5ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT			
		45 14(Pico Style) 60 17(Pico Style)					Non-flush	2.0 4.0 6.0	
		53 20(Euro Style) 70 25(Euro Style)							
M12x1	Brass	42 55(3Φ 3x0.15) 59 60(3Φ 3x0.15)	Flush	1~3mm adjustable	NPN N.O. NPN N.C. PNP N.O. PNP N.C.	Nominal Voltage: 10~30VDC → (PNP N.O./PNP N.C.) (NPN N.O./PNP N.C.) Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <2V Switching Frequency: 100Hz Response Time: 1.5ms/1.5ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT			
		50 23(Euro Style) 68 25(Euro Style)					Non-flush	1~6mm adjustable	

DC CAPACITIVE PROXIMITY SENSOR

M18, M30, $\Phi 34$

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M18X1	Brass PBT Resin	55 110(5 Φ 3/4x0.34) 80 115(5 Φ 3/4x0.34) 79 62(Euro Style) 93 69(Euro Style)	Flush Non-flush	2~8mm adjustable 2~15mm adjustable	NPN N.O. NPN N.C. PNP N.O. PNP N.C. PNP N.O. & N.C. NPN N.O. & N.C.	Nominal Voltage: 10~30VDC → (PNP N.O./PNP N.C.) (NPN N.O./NPN N.C.) Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <2V Switching Frequency: 100Hz Response Time: 1.5ms/1.5ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	
M30X1	Brass PBT Resin	55 190(5.8 Φ 3/4x0.34) 80 198(5.8 Φ 3/4x0.34) 78 137(Euro Style) 90 147(Euro Style)	Flush Non-flush	2~20mm adjustable 2~30mm adjustable	NPN N.O. NPN N.C. PNP N.O. PNP N.C. PNP N.O. & N.C. NPN N.O. & N.C.	Nominal Voltage: 10~30VDC → (PNP N.O./PNP N.C.) (NPN N.O./NPN N.C.) Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <2V Switching Frequency: 100Hz Response Time: 1.5ms/1.5ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	
$\Phi 34$	PBT Resin	80 198(5.8 Φ 3/4x0.34) 90 147(Euro Style)	Flush Non-flush	2~25mm adjustable 2~35mm adjustable	NPN N.O. NPN N.C. PNP N.O. PNP N.C. PNP N.O. & N.C. NPN N.O. & N.C.	Nominal Voltage: 10~30VDC → (PNP N.O./PNP N.C.) (NPN N.O./NPN N.C.) Ripple: <10% No Load Current: <10mA Max. Load Current: 200mA Leakage Current: <0.01mA Voltage Drop: <2V Switching Frequency: 100Hz Response Time: 1.5ms/1.5ms Switching Hysteresis: <15%(Sr) Repeat Accuracy: <1.0%(Sr) Operating Temperature: -25° C~+75° C Temperature Drift: <10%(Sr) Output Indicator: Red/Yellow LED Overload Trip Point: 220mA Short Circuit Protection: Yes Reverse polarity protection: Yes Protection: IP67 Material Active Face: PBT	

AC CAPACITIVE PROXIMITY SENSOR

M18, M30, $\Phi 34$

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M18X1	Stainless-steel Brass PBT Resin	80 115(5 Φ 3/2x0.34) 93 69(Micro Style)	Flush Non-flush	2~8mm adjustable 2~15mm adjustable	N. O. N. C.	Nominal Voltage: 20~250VAC No Load Current: <2.5mA Max. Load Current: 300mA Leakage Current: <2.5mA Surge Current: <5A(20ms) Min. Load Current: <5mA Voltage Drop: 9VAC at 300mA Switching Frequency: <25Hz Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25 $^{\circ}$ C~+70 $^{\circ}$ C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: No Overload Trip Point: No Reverse polarity protection: No Protection: IP67 Material Active Face: PBT	
M30X1	Stainless-steel Brass PBT Resin	80 198(5.8 Φ 3/2x0.34) 93 147(Micro Style)	Flush Non-flush	2~20mm adjustable 2~30mm adjustable	N. O. N. C.	Nominal Voltage: 20~250VAC No Load Current: <2.5mA Max. Load Current: 300mA Leakage Current: <2.5mA Surge Current: <5A Min. Load Current: <5mA Voltage Drop: 9VAC at 300mA Switching Frequency: <25Hz Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: 25 $^{\circ}$ C~+70 $^{\circ}$ C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: No Overload Trip Point: No Reverse polarity protection: No Protection: IP67 Material Active Face: PBT	
$\Phi 34$	PBT Resin	80 248(5.8 Φ 3/2x0.5) 90 162(Micro Style)	Flush Non-flush	2~25mm adjustable 2~35mm adjustable	N. O. N. C.	Nominal Voltage: 20~250VAC No Load Current: <2.5mA Max. Load Current: 300mA Leakage Current: <2.5mA Surge Current: <5A Min. Load Current: <5mA Voltage Drop: 9VAC at 300mA Switching Frequency: <25Hz Response Time: 10ms/10ms Switching Hysteresis: <15% (Sr) Repeat Accuracy: <1.0% (Sr) Operating Temperature: -25 $^{\circ}$ C~+70 $^{\circ}$ C Temperature Drift: <10% (Sr) Output Indicator: Red/Yellow LED Short Circuit Protection: No Overload Trip Point: No Reverse polarity protection: No Protection: IP67 Material Active Face: PBT	

AC/DC CAPACITIVE PROXIMITY SENSOR

M18, M30, Φ 34

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	MOUNTING	SENSING RANGE (mm)	OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M18X1	Stainless-steel Brass PBT Resin	80 115(5 Φ 3/2x0.34) 93 69(Micro Style)	Flush Non-flush	2~8mm adjustable 2~15mm adjustable	N. O. N. C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>Ripple: <10% (DC)</p> <p>No Load Current: <2.5mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <2.5mA</p> <p>Surge Current: <2.2A(20ms)</p> <p>Min. Load Current: <5mA</p> <p>Voltage Drop: \leq 10VAC, \leq 8VDC</p> <p>Switching Frequency: 25Hz (AC); 40Hz (DC)</p> <p>Response Time: 10ms/10ms</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: -25$^{\circ}$ C~+75$^{\circ}$ C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Short Circuit Protection: No</p> <p>Overload Trip Point: No</p> <p>Reverse polarity protection: No</p> <p>Protection: IP67</p> <p>Material Active Face: PBT</p>	
M30X1	Stainless-steel Brass PBT Resin	80 198(5.8 Φ 3/2x0.34) 93 147(Micro Style)	Flush Non-flush	2~20mm adjustable 2~25mm adjustable	N. O. N. C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>Ripple: <10% (DC)</p> <p>No Load Current: <2.5mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <2.5mA</p> <p>Surge Current: <2.2A(20ms)</p> <p>Min. Load Current: <5mA</p> <p>Voltage Drop: \leq 10VAC, \leq 8VDC</p> <p>Switching Frequency: 25Hz (AC); 40Hz (DC)</p> <p>Response Time: 10ms/10ms</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: -25$^{\circ}$ C~+75$^{\circ}$ C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Short Circuit Protection: No</p> <p>Overload Trip Point: No</p> <p>Reverse polarity protection: No</p> <p>Protection: IP67</p> <p>Material Active Face: PBT</p>	
Φ 34	PBT Resin	80 248(5.8 Φ 3/2x0.5) 90 162(Micro Style)	Flush Non-flush	2~25mm adjustable 2~30mm adjustable	N. O. N. C.	<p>Nominal Voltage: 20~250VAC/20~250VDC</p> <p>Ripple: <10% (DC)</p> <p>No Load Current: <2.5mA</p> <p>Max. Load Current: 200mA</p> <p>Leakage Current: <2.5mA</p> <p>Surge Current: <2.2A(20ms)</p> <p>Min. Load Current: <5mA</p> <p>Voltage Drop: \leq 10VAC, \leq 8VDC</p> <p>Switching Frequency: 25Hz (AC); 40Hz (DC)</p> <p>Response Time: 10ms/10ms</p> <p>Switching Hysteresis: <15% (Sr)</p> <p>Repeat Accuracy: <1.0% (Sr)</p> <p>Operating Temperature: -25$^{\circ}$ C~+75$^{\circ}$ C</p> <p>Temperature Drift: <10% (Sr)</p> <p>Output Indicator: Red/Yellow LED</p> <p>Short Circuit Protection: No</p> <p>Overload Trip Point: No</p> <p>Reverse polarity protection: No</p> <p>Protection: IP67</p> <p>Material Active Face: PBT</p>	

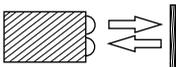
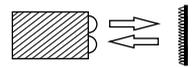
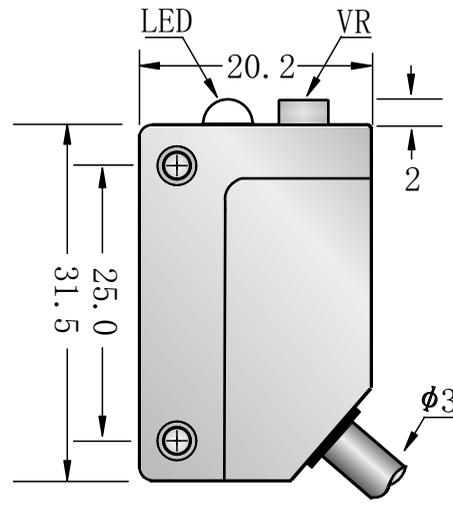
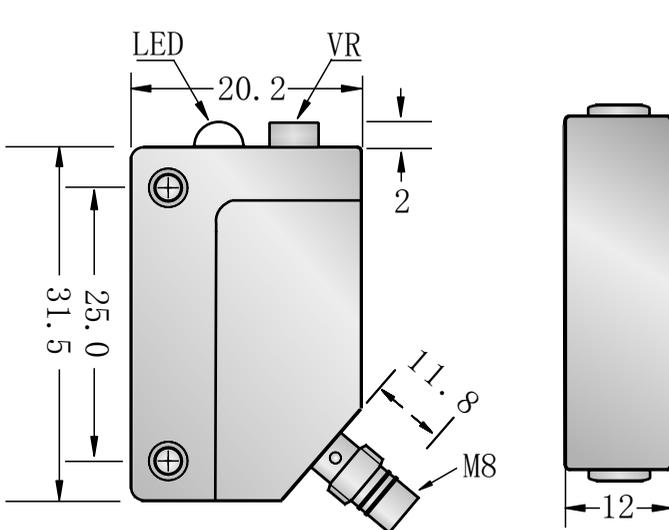
10-30VDC PC SERIES PHOTOELECTRIC SENSOR ----- M12, M18, M30

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	SENSING MODE	SENSING RANGE (m)	OUT & OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M12x1	Brass Stainless-steel Plastic	60.99 mm 67 68(3Φ 3x0.15) 74 30(Pico Style) 76 40(Euro Style)	Diffuse Throguh-beam Retro-reflective	0.2m 5.2m 10m 1.5m	NPN Light on & Dark on PNP Light on & Dark on Emitter NPN Light on NPN Dark on PNP Light on PNP Dark on NPN Light on & Dark on PNP Light on & Dark on	Nominal Voltage: 10-30VDC Ripple: <10% Tolerance: 10% Switching Hysteresis: <10%(Sr) Emission: Infrared (880nm) Max. Output Current: 200mA No Load Current: <30mA Voltage Drop: <2.5V (Sensor On) Response Time: 1.5ms/1.0ms Operating Temperature: -25°C~+70°C Ambient Humidity: 35%~85% RH Light Immunity: >10.000Lux Output Indicator: Red/Yellow LED Overload Current Protection: Yes Short Circuit Protection: Yes Reverse polarity protection: Yes EMC: IEC 60947-5-2 Parts 7.2.6.1.2.3 IEC 60947-5-2 Shock/Vibration: Parts 7.4.2. Parts 7.4.1 Protection: IP67 Material Active Face: PBT	
M18x1	Brass Stainless-steel Plastic	60.99 mm 67 112(3Φ 3x0.15) 85 75(Euro Style)	Diffuse Throguh-beam Retro-reflective	0.15m 0.5m 10m 3m	NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor) Emitter NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor) NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor)	Nominal Voltage: 10-30VDC Ripple: <10% Tolerance: 10% Switching Hysteresis: <10%(Sr) Emission: Infrared (880nm) Max. Output Current: 200mA No Load Current: <30mA Voltage Drop: <2.5V (Sensor On) Response Time: 1.5ms/1.0ms Operating Temperature: -25°C~+70°C Ambient Humidity: 35%~85% RH Light Immunity: >10.000Lux Output Indicator: Red/Yellow LED Overload Current Protection: Yes Short Circuit Protection: Yes Reverse polarity protection: Yes EMC: IEC 60947-5-2 Parts 7.2.6.1.2.3 IEC 60947-5-2 Shock/Vibration: Parts 7.4.2. Parts 7.4.1 Protection: IP67 Material Active Face: PBT	
M30x1	Brass Stainless-steel Plastic	60.99 mm 67 112(3Φ 3x0.15) 85 75(Euro Style)	Diffuse Throguh-beam Retro-reflective	0.15m 0.5m 10m 3m	NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor) Emitter NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor) NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor)	Nominal Voltage: 10-30VDC Ripple: <10% Tolerance: 10% Switching Hysteresis: <10%(Sr) Emission: Infrared (880nm) Max. Output Current: 200mA No Load Current: <30mA Voltage Drop: <2.5V (Sensor On) Response Time: 1.5ms/1.0ms Operating Temperature: -25°C~+70°C Ambient Humidity: 35%~85% RH Light Immunity: >10.000Lux Output Indicator: Red/Yellow LED Overload Current Protection: Yes Short Circuit Protection: Yes Reverse polarity protection: Yes EMC: IEC 60947-5-2 Parts 7.2.6.1.2.3 IEC 60947-5-2 Shock/Vibration: Parts 7.4.2. Parts 7.4.1 Protection: IP67 Material Active Face: PBT	

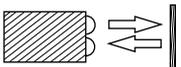
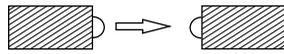
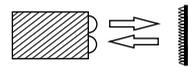
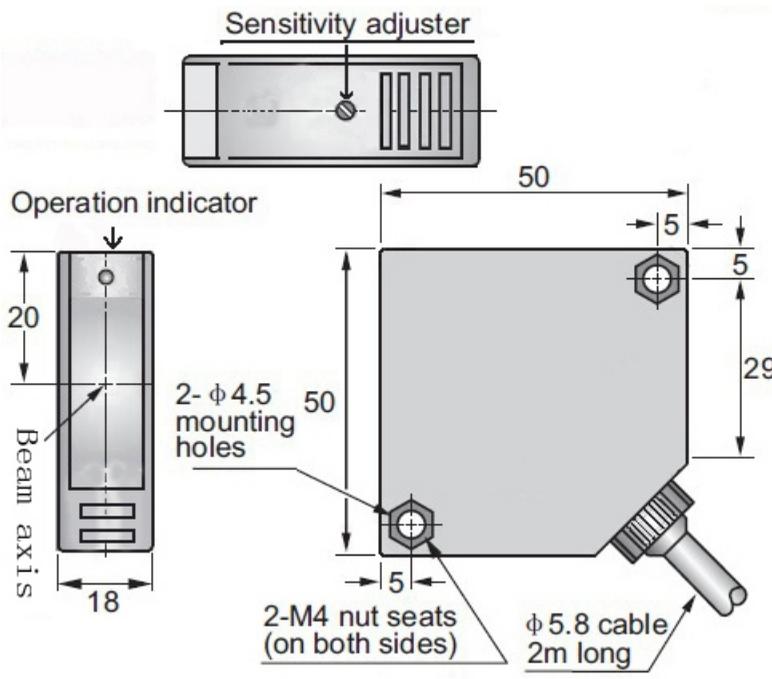
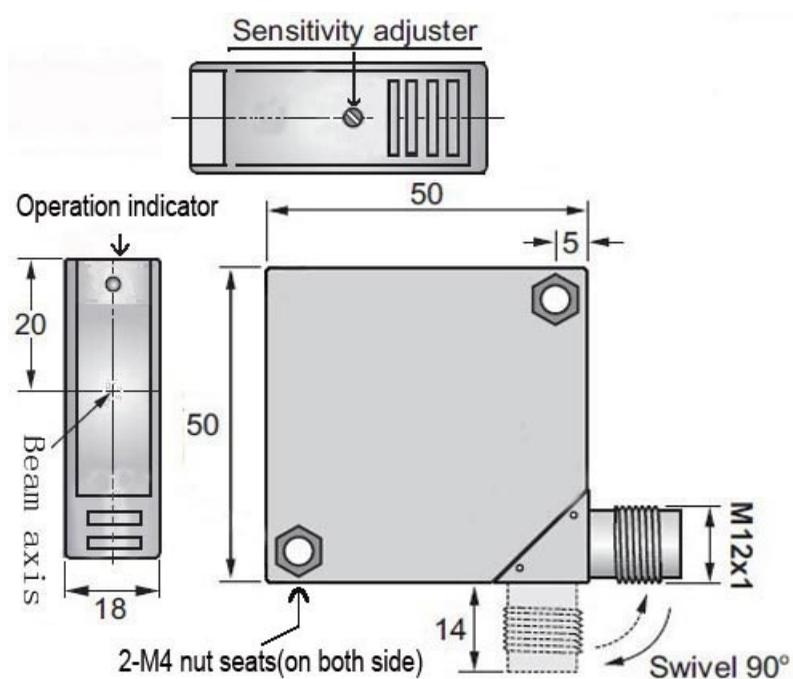
24-240VAC PC SERIES PHOTOELECTRIC SENSOR-----M12, M18, M30

DIA.	HOUSING MATERIAL	DIMENSION (mm) WEIGHT (G) CONNECTION	SENSING MODE	SENSING RANGE (m)	OUT & OUTPUT FUNCTION	SPECIFICATIONS	DIMENSIONS(Unit: mm)
M12x1	Brass Stainless-steel Plastic	67 68(3Φ 3x0.15) 74 30(Pico Style) 76 40(Euro Style)	Diffuse Throguh-beam Retro-reflective	0.2m 5.2m 10m 1.5m	NPN Light on & Dark on PNP Light on & Dark on Emitter NPN Light on NPN Dark on PNP Light on PNP Dark on NPN Light on & Dark on PNP Light on & Dark on	Nominal Voltage:----- 24-240VAC Ripple:----- <10% Tolerance:----- 10% Switching Hysteresis:----- <10%(Sr) Emission:----- Infrared (880nm) Max. Output Current:----- 200mA No Load Current:----- <30mA Voltage Drop:----- <2.5V (Sensor On) Response Time:----- 1.5ms/1.0ms Operating Temperature:----- -25°C~+70°C Ambient Humidity:----- 35%~85% RH Light Immunity:----- >10.000Lux Output Indicator:----- Red/Yellow LED Overload Current Protection: Yes Short Circuit Protection:----- Yes Reverse polarity protection:----- Yes EMC:----- IEC 60947-5-2 Parts 7.2.6.1.2.3 IEC 60947-5-2 Shock/Vibration:----- Parts 7.4.2. Parts 7.4.1 Protection:----- IP67 Material Active Face:----- PBT	
M18x1	Brass Stainless-steel Plastic	67 112(3Φ 3x0.15) 85 75(Euro Style)	Diffuse Throguh-beam Retro-reflective	0.15m 0.5m 10m 3m	NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor) Emitter NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor) NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor)	Nominal Voltage:----- 24-240VAC Ripple:----- <10% Tolerance:----- 10% Switching Hysteresis:----- <10%(Sr) Emission:----- Infrared (880nm) Max. Output Current:----- 200mA No Load Current:----- <30mA Voltage Drop:----- <2.5V (Sensor On) Response Time:----- 1.5ms/1.0ms Operating Temperature:----- -25°C~+70°C Ambient Humidity:----- 35%~85% RH Light Immunity:----- >10.000Lux Output Indicator:----- Red/Yellow LED Overload Current Protection: Yes Short Circuit Protection:----- Yes Reverse polarity protection:----- Yes EMC:----- IEC 60947-5-2 Parts 7.2.6.1.2.3 IEC 60947-5-2 Shock/Vibration:----- Parts 7.4.2. Parts 7.4.1 Protection:----- IP67 Material Active Face:----- PBT	
M30x1	Brass Stainless-steel Plastic	67 112(3Φ 3x0.15) 85 75(Euro Style)	Diffuse Throguh-beam Retro-reflective	0.15m 0.5m 10m 3m	NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor) Emitter NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor) NPN Light On or Dark On PNP Light On or Dark On NPN Light On & Dark On PNP Light On & Dark On Multifunctional Output (NPN, PNP, Light on, dark on all in a single sensor)	Nominal Voltage:----- 24-240VAC Ripple:----- <10% Tolerance:----- 10% Switching Hysteresis:----- <10%(Sr) Emission:----- Infrared (880nm) Max. Output Current:----- 200mA No Load Current:----- <30mA Voltage Drop:----- <2.5V (Sensor On) Response Time:----- 1.5ms/1.0ms Operating Temperature:----- -25°C~+70°C Ambient Humidity:----- 35%~85% RH Light Immunity:----- >10.000Lux Output Indicator:----- Red/Yellow LED Overload Current Protection: Yes Short Circuit Protection:----- Yes Reverse polarity protection:----- Yes EMC:----- IEC 60947-5-2 Parts 7.2.6.1.2.3 IEC 60947-5-2 Shock/Vibration:----- Parts 7.4.2. Parts 7.4.1 Protection:----- IP67 Material Active Face:----- PBT	

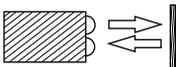
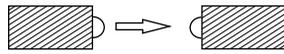
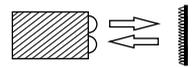
PS31 SERIES PHOTOELECTRIC SENSOR

TYPE	31					
SIZE (mm)	31.5x20.2x12 (mm)					
HOUSING MATERIAL	ABS Plastic					
NOMINAL VOLTAGE	10-30VDC					
SENSING MODE	Diffuse		Throguh-beam		Retro-reflective	
						
SENSING DISTANCE (Sn: m)	0.11m	0.35m	0.8m	5m	10m	0.1-4.0m
OUTPUT AND FUNCTION	NPN Light On & Dark On PNP Light On & Dark On		Emitter Receiver (NPN Light On & Dark On) Receiver (PNP Light On & Dark On)		NPN Light On & Dark On PNP Light On & Dark On	
SPECIFICAIONS	<p>Residual Ripple: _____ <10%</p> <p>Tolerance: _____ ± 10%Sn</p> <p>Hysteresis: _____ 15%</p> <p>Emission: _____ Infrared (880nm)</p> <p>Absorption at 30VDC: _____ <35mA</p> <p>Voltage Drop: _____ ≤ 2.0V (I=100mA)</p> <p>Sensitivity Adjustment: _____ Trimmer 1 tum</p> <p>Switching Frequency: _____ 500Hz</p> <p>Response Time: _____ 1ms</p> <p>Start Up Delay: _____ <300mS</p> <p>Operating Temperature: _____ -25° C~+70° C</p> <p>Light Immunity: _____ >5.000Lux</p> <p>Output Indicator: _____ Red/Yellow LED</p> <p>Short Circuit Protection: _____ Yes</p> <p>Reverse polarity protection: _____ Yes</p> <p>Protection: _____ IP67</p> <p>Sensing Object: _____ 20x20cm White Papaer</p>					
CONNECTION	2m 3Φ Cable			Pico Style		
WEIGHT (G)	42g			35g		
DIMENSIONS (Unit: mm)						

PS50 SERIES DC PHOTOELECTRIC SENSOR

TYPE	50					
SIZE (mm)	50x50x18 (mm)					
HOUSING MATERIAL	ABS Plastic					
NOMINAL VOLTAGE	10-30VDC					
SENSING MODE	Diffuse			Through-beam		Retro-reflective
						
SENSING DISTANCE (Sn: m)	0.1~0.4m	0.2~1.0m	0.2~1.8m	0.3~2.0m	20m	40m
SENSING OBJEST	10x10cm White Paper	20x20cm White Paper				
OUTPUT AND FUNCTION	NPN Light On NPN Dark On PNP Light On PNP Dark On			Emitter NPN Light On NPN Dark On PNP Light On PNP Dark On		NPN Light On NPN Dark On PNP Light On PNP Dark On
SPECIFICAIONS	<p>Residual Ripple: ----- <10% Tolerance: ----- ± 10% Sn Hysteresis: ----- 15% Emission: ----- Infrared (880nm) Max. Output Current: ----- 200mA Absorption at 30VDC: ----- <35mA Voltage Drop: ----- ≤ 2.0V (I=100mA) Sensitivity Adjustment: ----- Trimmer 1 turn Switching Frequency: ----- 500Hz Response Time: ----- 1ms Start Up Delay: ----- <300mS Operating Temperature: ----- -25° C~+70° C Light Immunity: ----- >5.000Lux Output Indicator: ----- Red/Yellow LED Short Circuit Protection: ----- Yes Reverse polarity protection: ----- Yes Protection: ----- IP67</p>					
CONNECTION	2m Cable (5.8Φ 4x0.25)			Euro Style		
WEIGHT (G)	162g			35g		
DIMENSIONS (Unit: mm)						

PS50 SERIES AC/DC PHOTOELECTRIC SENSOR

TYPE	50						
SIZE (mm)	50x50x18 (mm)						
HOUSING MATERIAL	ABS Plastic						
NOMINAL VOLTAGE	12-240VDC/24-240VAC						
SENSING MODE	Diffuse			Through-beam		Retro-reflective	
							
SENSING DISTANCE (Sn: m)	0.1~0.4m	0.2~1.0m	0.2~1.8m	0.3~2.0m	20m	40m	10m
SENSING OBJEST	10x10cm White Paper	20x20cm White Paper					D83 Dirror
OUTPUT AND FUNCTION	Relay SPDT			Relay SPDT		Relay SPDT	
SPECIFICAIONS	<p>Mains Frequency:----- 50/60Hz Tolerance:----- ± 10%Sn Hysteresis:----- 10% Emission:----- Infrared (880nm) Max. Output Current:----- 3A/30V AC; 1A/220V AC Absorption at 30VDC:----- <35mA Voltage Drop:----- ≤ 2.0V (I=100mA) Sensitivity Adjustment:----- Trimmer 1 tum Switching Frequency:----- 10Hz Response Time:----- 20ms Start Up Delay:----- <300mS Operating Temperature:----- -25° C~+70° C Light Immunity:----- >10.000Lux Output Indicator:----- Red/Yellow LED Short Circuit Protection:----- Yes Reverse polarity protection:----- Yes Protection:----- IP67</p>						
CONNECTION	2m Cable (5.8Φ 4x0.25)				Euro Style		
WEIGHT (G)	162g				35g		
DIMENSIONS (Unit: mm)	