

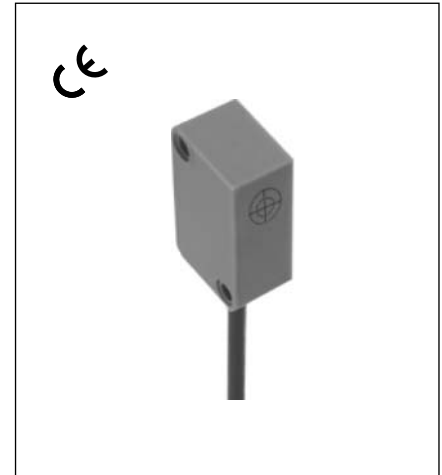
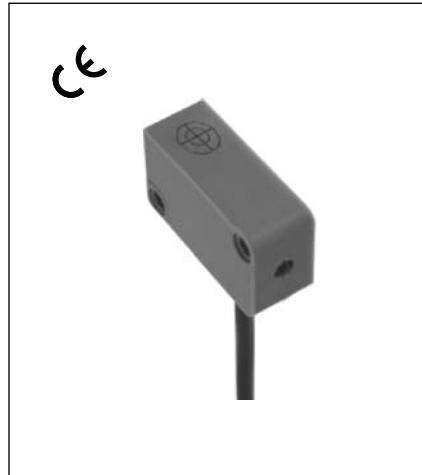
EXTENDED RANGE INDUCTIVE PROXIMITY SENSOR (10-30VDC/10-55VDC/5-36VDC)

Diameter
● Shielded ○ non-Shielded
Switching Distance, Sn: mm
Housing Material
● With LED ○ Without LED

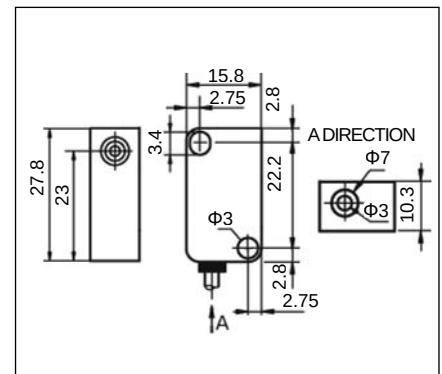
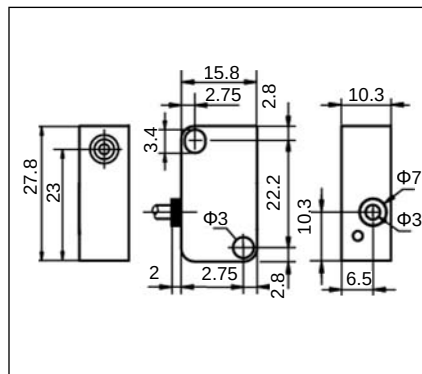
Q16x28x10	
●	○
2 mm	4 mm
PBT	
●	

Q16x28x10	
●	○
2 mm	4 mm
PBT	
●	

Picture



Dimensions (unit: mm)



Ripple
No Load Current
Max. Load current
Leakage Current
Voltage Drop
Switching Frequency
Response Time
Switching Hysteresis
Repeat Accuracy
Protection Category
Operating Temperature
Temperature Drift
Short Circuit Protection
Overload Trip Point
Material Active Face

<10%
<10mA
200mA
<0.01mA
<2.0V
2KHz 1KHz
0.1ms/0.1ms 0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25℃ - +70℃
<10%(Sr)
Yes
220mA
PBT

<10%
<10mA
200mA
<0.01mA
<2.0V
2KHz 1KHz
0.1ms/0.1ms 0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25℃ - +70℃
<10%(Sr)
Yes
220mA
PBT

Connecting type
Weight

2M Cable (2.9 ϕ 3x0.15)
approx.55 g

2M Cable (2.9 ϕ 3x0.15)
approx.55 g

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 3 wire 10-55V NPN N.O.
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36 V NPN N.O.
DC 3 wire 5-36 V NPN N.C.
DC 3 wire 5-36 V PNP N.O.
DC 3 wire 5-36 V PNP N.C.

IPS-Q2802N-A1LN2	1*	IPN-Q2804N-A1LN2
IPS-Q2802N-B1LN2	2	IPN-Q2804N-B1LN2
IPS-Q2802P-A1LN2	3	IPN-Q2804P-A1LN2
IPS-Q2802P-B1LN2	4	IPN-Q2804P-B1LN2

IPS-Q2802N-A1VN2	1*	IPN-Q2804N-A1VN2
IPS-Q2802N-B1VN2	2	IPN-Q2804N-B1VN2
IPS-Q2802P-A1VN2	3	IPN-Q2804P-A1VN2
IPS-Q2802P-B1VN2	4	IPN-Q2804P-B1VN2

* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 and Page 014.

EXTENDED RANGE INDUCTIVE PROXIMITY SENSOR (10-30VDC/10-55VDC/5-36VDC)

Diameter
☒ Shielded ☐ non-Shielded
Switching Distance, Sn: mm
Housing Material
☒ With LED ☐ Without LED

Q16x28x10	
● 2 mm	○ 4 mm
PBT	
●	

Q16x28x10	
● 2 mm	○ 4 mm
PBT	
●	



Dimensions (unit: mm)

Technical drawing of a mechanical part with dimensions and labels:

- Overall height: 27.8
- Internal height: 23
- Threaded hole: M8x1
- Top hole diameter: $\Phi 3$
- Top hole offset from right edge: 15.8
- Top hole offset from center: 2.75
- Top hole diameter: $\Phi 3$
- Top hole offset from center: 2.8
- Top hole offset from center: 3.4
- Top hole offset from center: 2.75
- Top hole offset from center: 2.8
- Top hole offset from center: 10.3
- Top hole offset from center: 6.5
- Top hole offset from center: 7
- Top hole offset from center: 3

Technical drawing of a mechanical part. The main view shows a component with a total height of 27.8 and a width of 23. A cross-section view (A-A) is shown to the right, indicating the 'A DIRECTION'. The cross-section view shows a rectangular part with a width of 10.3 and a height of 2.8. The main view includes dimensions: 15.8 (total width), 2.75 (width of the top flange), 2.8 (height of the top flange), 3.4 (height of the main body), 22.2 (height of the main body), 2.8 (height of the bottom flange), and 2.75 (width of the bottom flange). The main view also shows a hole with a diameter of $\phi 3$ and a threaded hole with a diameter of $\phi 7$. The cross-section view shows a hole with a diameter of $\phi 3$ and a threaded hole with a diameter of $\phi 7$. The drawing is labeled 'M8x1' and 'A DIRECTION'.

Ripple
No Load Current
Max. Load current
Leakage Current
Voltage Drop
Switching Frequency
Response Time
Switching Hysteresis
Repeat Accuracy
Protection Category
Operating Temperature
Temperature Drift
Short Circuit Protection
Overload Trip Point
Material Active Face

<10%	
<10mA	
200mA	
<0.01mA	
<2.0V	
2KHz	1KHz
0.1ms/0.1ms	0.2ms/0.2ms
<15%(Sr)	
<1.0%(Sr)	
IP67	
-25℃ - +70℃	
<10%(Sr)	
Yes	
220mA	
PBT	

<10%	
<10mA	
200mA	
<0.01mA	
<2.0V	
2KHz	1KHz
0.1ms/0.1ms	0.2ms/0.2ms
<15%(Sr)	
<1.0%(Sr)	
IP67	
-25℃ - +70℃	
<10%(Sr)	
Yes	
220mA	
PBT	

Connecting type
Weight

M8 connector
approx.25 g

M8 connector
approx.25 g

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 3 wire 10-55V NPN N.O.
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36 V NPN N.O.
DC 3 wire 5-36 V NPN N.C.
DC 3 wire 5-36 V PNP N.O.
DC 3 wire 5-36 V PNP N.C.

[illegible][illegible]

* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.

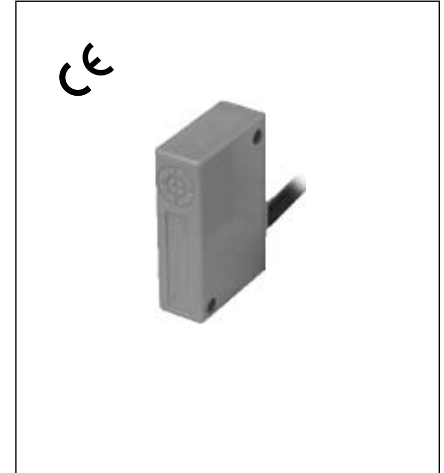
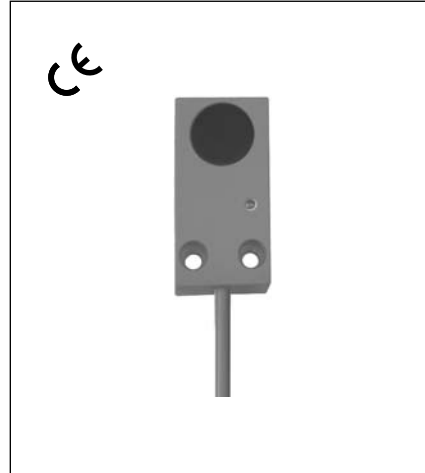
EXTENDED RANGE INDUCTIVE PROXIMITY SENSOR (10-30VDC/10-55VDC/5-36VDC)

Diameter
● Shielded ○ non-Shielded
Switching Distance, Sn: mm
Housing Material
● With LED ○ Without LED

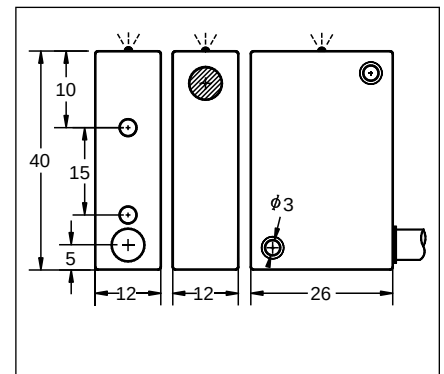
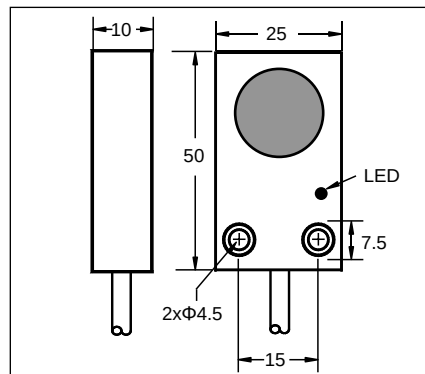
Q25x50x10	
●	○
4 mm	8 mm
PBT	
●	

Q26x40x12	
●	○
4 mm	8 mm
PBT	
●	

Picture



Dimensions (unit: mm)



Ripple
No Load Current
Max. Load current
Leakage Current
Voltage Drop
Switching Frequency
Response Time
Switching Hysteresis
Repeat Accuracy
Protection Category
Operating Temperature
Temperature Drift
Short Circuit Protection
Overload Trip Point
Material Active Face

<10%
<10mA
200mA
<0.01mA
<2.0V
300Hz 100Hz
0.5ms/0.5ms 1ms/1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PBT

<10%
<10mA
200mA
<0.01mA
<2.0V
300Hz 100Hz
0.5ms/0.5ms 1ms/1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PBT

Connecting type
Weight

2M Cable (4.0 Φ 3x0.25)
approx.110 g

2M Cable (4.0 Φ 3x0.25)
approx.120 g

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 3 wire 10-55V NPN N.O.
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36 V NPN N.O.
DC 3 wire 5-36 V NPN N.C.
DC 3 wire 5-36 V PNP N.O.
DC 3 wire 5-36 V PNP N.C.

IPS-Q2504N-A1VN2	1*	IPN-Q2508N-A1VN2
IPS-Q2504N-B1VN2	2	IPN-Q2508N-B1VN2
IPS-Q2504P-A1VN2	3	IPN-Q2508P-A1VN2
IPS-Q2504P-B1VN2	4	IPN-Q2508P-B1VN2

IPS-Q2604N-A1LN2	1*	IPN-Q2608N-A1LN2
IPS-Q2604N-B1LN2	2	IPN-Q2608N-B1LN2
IPS-Q2604P-A1LN2	3	IPN-Q2608P-A1LN2
IPS-Q2604P-B1LN2	4	IPN-Q2608P-B1LN2

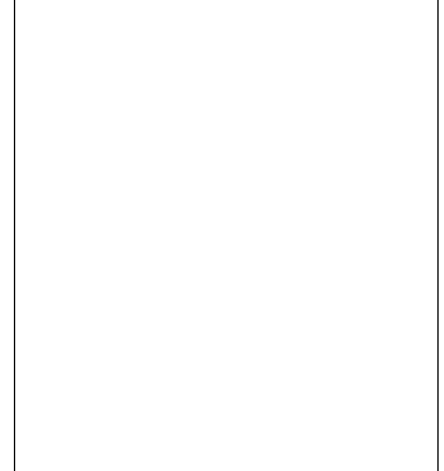
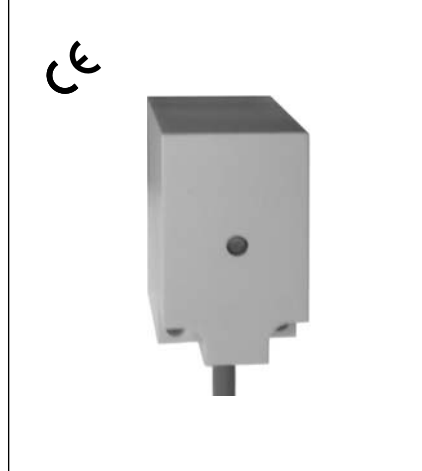
* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 and Page 014.

EXTENDED RANGE INDUCTIVE PROXIMITY SENSOR (10-30VDC/10-55VDC/5-36VDC)

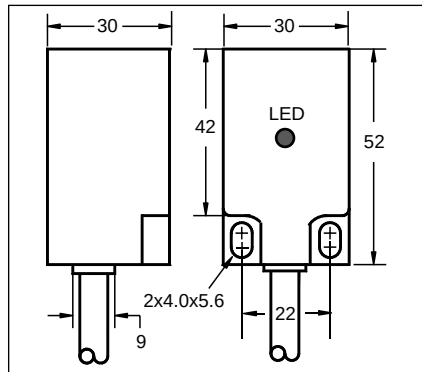
Diameter
● Shielded ○ non-Shielded
Switching Distance, Sn: mm
Housing Material
● With LED ○ Without LED

Q30x30x52	
●	○
16 mm	25 mm
PBT	
●	

Picture



Dimensions (unit: mm)



Ripple
No Load Current
Max. Load current
Leakage Current
Voltage Drop
Switching Frequency
Response Time
Switching Hysteresis
Repeat Accuracy
Protection Category
Operating Temperature
Temperature Drift
Short Circuit Protection
Overload Trip Point
Material Active Face

<10%
<10mA
200mA
<0.01mA
<2.0V
150Hz
100Hz
1ms/1ms
1ms/1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PBT

Connecting type
Weight

2M Cable (4.0 ϕ 3x0.25)
approx.135 g

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 3 wire 10-55V NPN N.O.
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36 V NPN N.O.
DC 3 wire 5-36 V NPN N.C.
DC 3 wire 5-36 V PNP N.O.
DC 3 wire 5-36 V PNP N.C.

IPS-Q3016N-A1VN2	1*	IPN-Q3025N-A1VN2
IPS-Q3016N-B1VN2	2	IPN-Q3025N-B1VN2
IPS-Q3016P-A1VN2	3	IPN-Q3025P-A1VN2
IPS-Q3016P-B1VN2	4	IPN-Q3025P-B1VN2

* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 and Page 014.