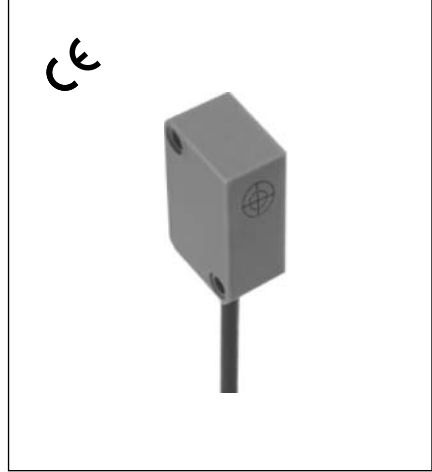
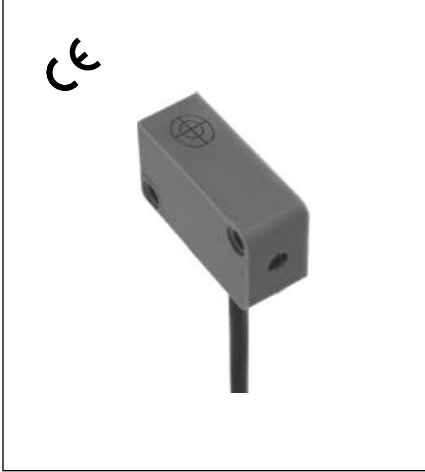


LONG RANGE INDUCTIVE PROXIMITY SENSOR (10-30VDC/10-55VDC/5-36VDC)

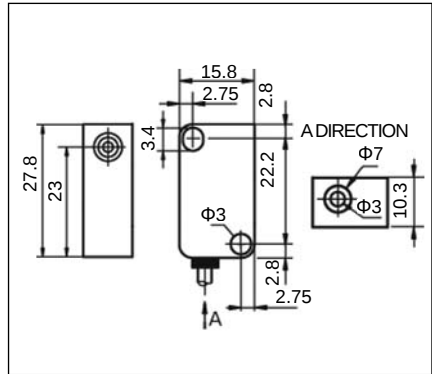
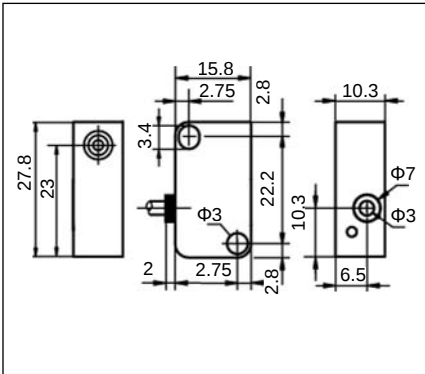
Diameter
☒ Shielded ☐ non-Shielded
Switching Distance, Sn: mm
Housing Material
☒ With LED ☐ Without LED

Q16x28x10	
● 3 mm	○ 6 mm
PBT	
●	

Q16x28x10	
● 3 mm	○ 6 mm
PBT	
●	



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	
1KHz	500Hz
0.2ms/0.2ms	0.5ms/0.5ms
<15%(Sr)	
<1.0%(Sr)	
IP67	
-25℃ - +70℃	
<10%(Sr)	
Yes	
220mA	
PBT	

<10%	
<10mA	
200mA	
<0.01mA	
<2.0V	
1KHz	500Hz
0.2ms/0.2ms	0.5ms/0.5ms
<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.

[illegible][illegible]

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

LONG 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	
● 3 mm	○ 6 mm
PBT	
●	

Q16x28x10	
● 3 mm	○ 6 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: 15.8
- Top hole diameter: 2.75
- Top hole offset: 2.8
- Top hole diameter: 3.4
- Top hole offset: 2.75
- Top hole diameter: 2.8
- Top hole offset: 2.8
- Top hole diameter: 10.3
- Top hole offset: 6.5
- Top hole diameter: $\Phi 7$
- Top hole offset: $\Phi 3$
- Top hole offset: 10.3
- Top hole offset: 6.5
- Top hole offset: 2.8

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 hole with a diameter of $\phi 3$ is located 3.4 from the top edge. A threaded hole is specified as M8x1. A cross-section view labeled 'A DIRECTION' shows a rectangular profile with a total width of 10.3, an outer diameter of $\phi 7$, and an inner diameter of $\phi 3$. Other dimensions include 15.8, 2.75, 2.8, 22.2, 2.8, and 2.75.

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	
1KHz	500Hz
0.2ms/0.2ms	0.5ms/0.5ms
<15%(Sr)	
<1.0%(Sr)	
IP67	
-25℃ - +70℃	
<10%(Sr)	
Yes	
220mA	
PBT	

<10%	
<10mA	
200mA	
<0.01mA	
<2.0V	
1KHz	500Hz
0.2ms/0.2ms	0.5ms/0.5ms
<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.

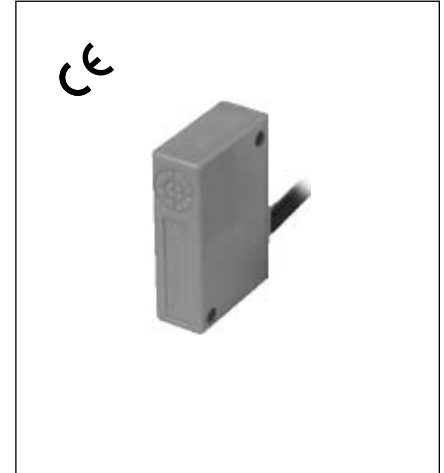
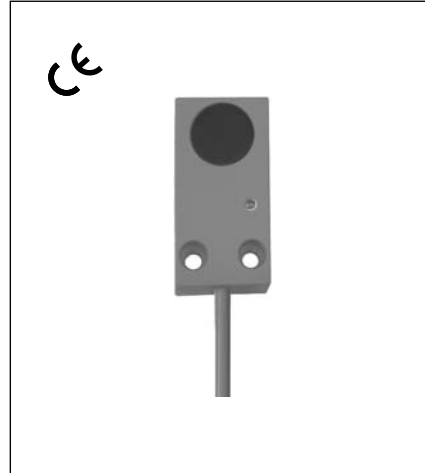
LONG RANGE INDUCTIVE PROXIMITY SENSOR (10-30VDC/10-55VDC/5-36VDC)

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

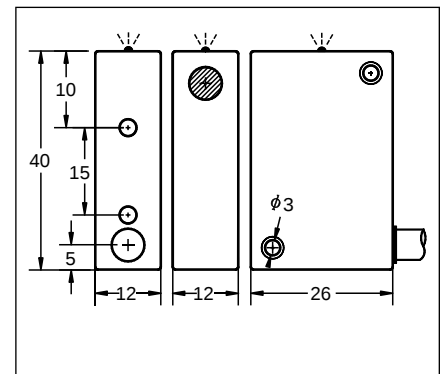
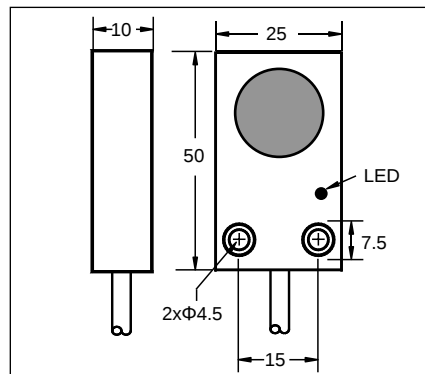
Q25x50x10	
●	○
6 mm	10 mm
PBT	
●	

Q26x40x12	
●	○
6 mm	10 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-Q2506N-A1VN2	1*	IPN-Q2510N-A1VN2
IPS-Q2506N-B1VN2	2	IPN-Q2510N-B1VN2
IPS-Q2506P-A1VN2	3	IPN-Q2510P-A1VN2
IPS-Q2506P-B1VN2	4	IPN-Q2510P-B1VN2

IPS-Q2606N-A1LN2	1*	IPN-Q2610N-A1LN2
IPS-Q2606N-B1LN2	2	IPN-Q2610N-B1LN2
IPS-Q2606P-A1LN2	3	IPN-Q2610P-A1LN2
IPS-Q2606P-B1LN2	4	IPN-Q2610P-B1LN2

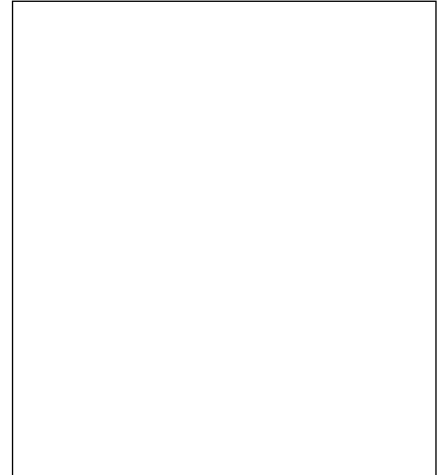
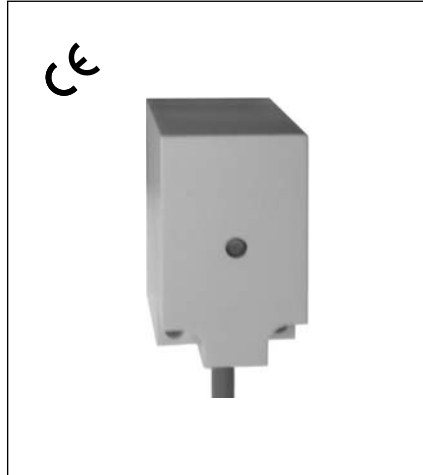
* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 and Page 014.

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

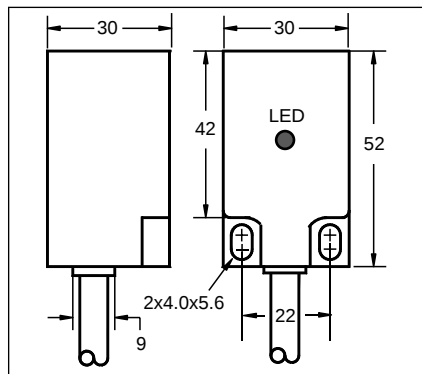
Diameter
● Shielded ○ non-Shielded
Switching Distance, Sn: mm
Housing Material
● With LED ○ Without LED

Q30x30x52	
●	○
20 mm	30 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-Q3020N-A1VN2	1*	IPN-Q3030N-A1VN2
IPS-Q3020N-B1VN2	2	IPN-Q3030N-B1VN2
IPS-Q3020P-A1VN2	3	IPN-Q3030P-A1VN2
IPS-Q3020P-B1VN2	4	IPN-Q3030P-B1VN2

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