## PLASTIC SQUARE INDUCTIVE PROXIMITY SENSOR (10-30VDC/10-55VDC/5-36VDC)

Diameter	Q8	Q8
Shielded	0	0
Switching Distance, Sn: mm	1.5 mm	1.5 mm
Housing Material	PBT	PBT
With LED	•	•
Picture	CE	CE
Dimensions (unit: mm)	LED 20 4.5 Φ3	23 LED 4.5
Ripple	<10%	<10%
No Load Current  Max. Load current	<10mA 100mA	<10mA 100mA
Leakage Current	<0.01mA	<0.01mA
Voltage Drop	<1.5V	<1.5V
Switching Frequency	500Hz	500Hz
Response Time	0.5ms/0.5ms	0.5ms/0.5ms
Switching Hysteresis	<15%(Sr)	<15%(Sr)
Repeat Accuracy	<0.04mm	<0.04mm
Protection Category	1P67	IP67
Operating Temperature Temperature Drift	-25°C- +70°C <10%(Sr)	-25℃-+70℃ <10%(Sr)
Short Circuit Protection	Yes	Yes
Overload Trip Point	220mA	220mA
Material Active Face	PBT	PBT
Connecting type	2M Cable (2.9 <i>Φ</i> 3x0.15)	2M Cable (2.9 <i>Φ</i> 3x0.15)
Weight	approx.12 g	approx.12 g
DC 3 wire 10-30V NPN N.O.	IPN-Q881.5N-A1VF2 1*	IPN-Q881.5N-A1VT2 1*
DC 3 wire 10-30V NPN N.C.	IPN-Q881.5N-B1VF2 2	IPN-Q881.5N-B1VT2 2
DC 3 wire 10-30V PNP N.O.	IPN-Q881.5P-A1VF2 3	IPN-Q881.5P-A1VT2 3
DC 3 wire 10-30V PNP N.C.	IPN-Q881.5P-B1VF2 4	IPN-Q881.5P-B1VT2 4
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 WIFE 10-35V 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.		

 $<sup>^{\</sup>star}$  Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.

DC 3 wire 5-36 V PNP N.C.

## PLASTIC SQUARE INDUCTIVE PROXIMITY SENSOR (10-30VDC/10-55VDC/5-36VDC)

Diameter	Q10	
Shielded	0	
Switching Distance, Sn: mm	2 mm	
Housing Material  ■ With LED ○ Without LED	PBT •	
• Warees o Warout EES		
Picture	ce P	CE
Dimensions (unit: mm)	Ф3.1 Ф6	
Discola	-109/	
Ripple No Load Current	<10% <10mA	
Max. Load current	100mA	
Leakage Current Voltage Drop	<0.01mA <1.5V	
Switching Frequency	250Hz	
Response Time Switching Hysteresis	0.5ms/0.5ms	
Repeat Accuracy	<15%(Sr) <0.04mm	
Protection Category	IP67	
Operating Temperature Temperature Drift	-25°C- +70°C <10%(Sr)	
Short Circuit Protection	Yes	
Overload Trip Point	120mA	
Material Active Face	PBT	
Connecting type Weight	2M Cable (2.9 <i>Φ</i> 3x0.15) approx.20 g	
DC 3 wire 10-30V NPN N.O.	IPN-Q1002N-A1VF2 1*	
DC 3 wire 10-30V NPN N.C.	IPN-Q1002N-B1VF2 2	
DC 3 wire 10-30V PNP N.O. DC 3 wire 10-30V PNP N.C.	IPN-Q1002P-A1VF2 3 IPN-Q1002P-B1VF2 4	
DC 3 wire 10-30V PNP N.C.  DC 3 wire 10-55V NPN N.O.	11 14-010021 -D1VI Z 4	
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 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.		
DO 3 WIRE 3-30 V FINE N.C.		

 $<sup>^{\</sup>star}$  Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.