Rectangular, Long Sensing Distance Type Proximity Sensor

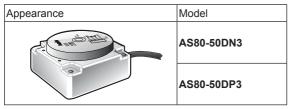
Features

- Sensing up to as 50mm
- Improved the noise immunity with dedicated IC
- Built-in reverse polarity protection circuit, surge protection circuit, over-current protection circuit
- Wide range of power supply: 12-48VDC (voltage range: 10-65VDC)
- Simultaneous output of Normal Open+Normal Close
- Built-in power indicator and operation indicator
- IP67 protection structure (IEC standard)



• Туре

O DC 4-wire long distance type



Specification

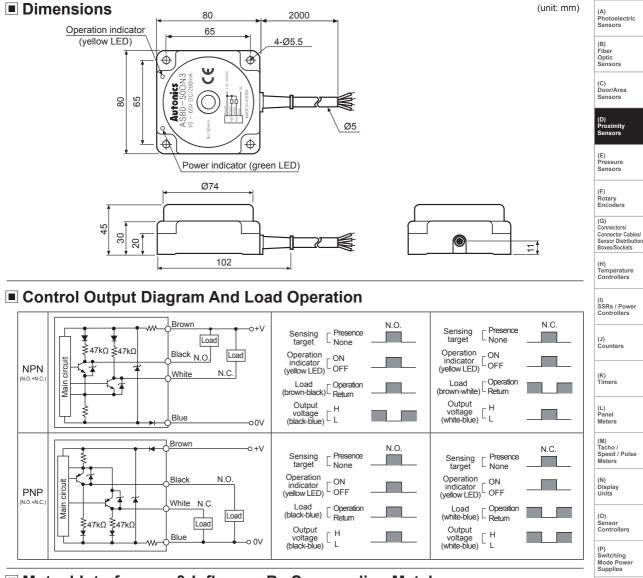
Model		AS80-50DN3	AS80-50DP3
			A380-50DF3
Sensing side		Upper side	
Sensing type		NPN Normally Open + Normally Closed	PNP Normally Open + Normally Closed
Sensing distance		50mm	
Hysteresis		Max. 15% of sensing distance	
Standard sensing target		150×150×1mm (iron)	
Setting distance		0 to 35mm	
Power supply		12-48VDC	
(operating voltage)		(10-65VDC)	
Current consumption		Max. 20mA	
Response frequency ^{*1}		30Hz	
Residual voltage		Max. 2V	
Affection by Temp.		Max. ±10% for sensing distance at ambient temperature 20°C	
Control output		Max. 200mA	
Insulation resistance		Over 50M Ω (at 500VDC megger)	
Dielectric strength		1,500VAC 50/60Hz for 1 minute	
Vibration		1mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours	
Shock		500m/s ² (appox. 50G) in X, Y, Z direction for 3 times	
Indicator		Power indicator: green LED, Operation indicator: yellow LED	
Environ- ment	Ambient temperature	-25 to 70°C, storage: -30 to 80°C	
	Ambient humidity	35 to 95%RH, storage: 35 to 95%RH	
Protection circuit		Surge protection circuit, Reverse polarity protection circuit, Over-current protection circuit	
Cable		Ø5mm, 4-wire, 2m (AWG22, Core diameter: 0.08mm, Number of cores: 60, Insulator diameter: Ø1.25mm)	
Approval		CE	
Protection structure		IP67 (IEC standard)	
Unit weight		Approx. 470g	

X1: The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

%Environment resistance is rated at no freezing or condensation.

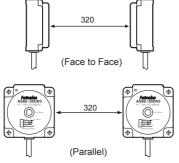


Rectangular, Long Sensing Distance Type



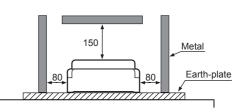
Mutual-Interference & Influence By Surrounding Metals Mutual-interference

When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.



Influence by surrounding metals

When sensors are mounted on metallic panel, you must prevent the sensors from being affected by any metallic object except target. Therefore, be sure to provide a minimum distance as below chart indicates.



(unit: mm)

(T) Software

(Q) Stepper Motors

& Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

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