

Proximity Sensors

AS Series



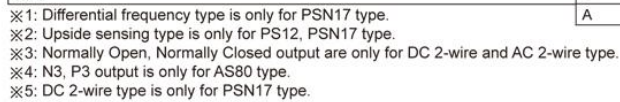
Long Sensing Distance Type Proximity Sensor

Long sensing distance type proximity sensor AS Series can detect a long distance of 50mm and features world-best class superior noise resistance characteristics with exclusively designed IC. Also simultaneous outputs of Normal Open and Normal Close increases user experience.



Features

- * Sensing up to as 50mm
- * Improved the noise resistance with dedicated IC
- * Built-in reverse polarity protection circuit, surge protection circuit, overcurrent 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
- * Protection structure IP67(IEC standard)



Appearance	Model
	AS80-50DN3
	AS80-50DP3

Model	AS80-50DN3	AS80-50DP3
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 (operating voltage)	12-48VDC (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 50MΩ (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 (approx. 50G) in X, Y, Z direction for 3 times	
Indicator	Power indicator: green LED, Operation indicator: yellow LED	
Environment	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	

※1: 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.

