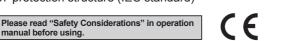
## **Rectangular, Long Sensing Distance Type Proximity Sensor**

### Features

· Sensing up to as 50mm

manual before using.

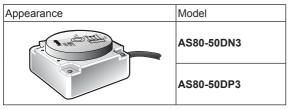
- Improved the noise immunity with dedicated IC
- Built-in reverse polarity protection circuit, surge protection circuit, over-current protection circuit
- Wide range of power supply: 12-48VDC (voltage range: 10-65VDC)
- Simultaneous output of Normally Open+Normally Closed
- Built-in power indicator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



## Type

 $\underline{\mathbb{N}}$ 

#### O DC 4-wire long distance type



## Specification

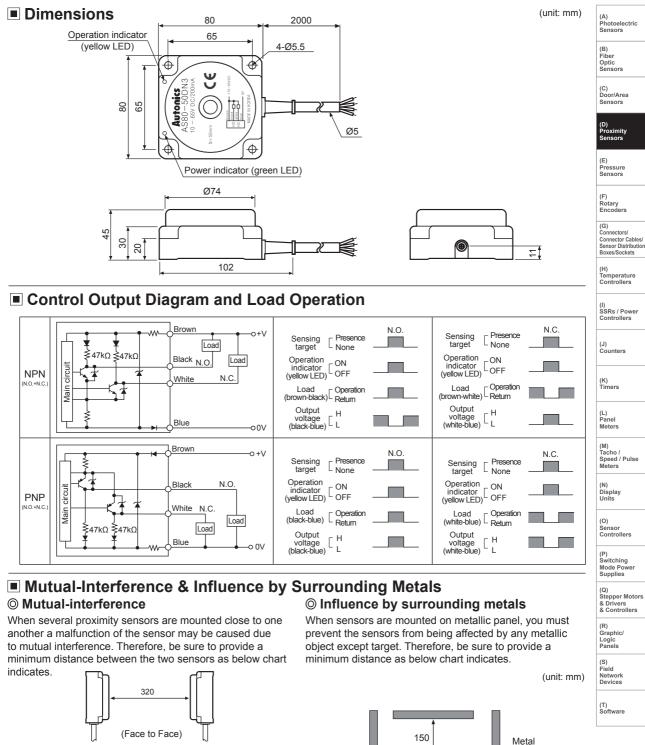
Model		AS80-50DN3	AS80-50DP3
Sensing side		Upper side	
Sensing type		NPN Normally Open + Normally Closed	PNP Normally Open + Normally Closed
Sensing distance		50mm	
Hysteresis		Max. 15% of sensing distance	
Standard sensing target		150×150×1mm (iron)	
Setting distance		0 to 35mm	
Power supply (operating voltage)		12-48VDC== (10-65VDC==)	
Current consumption		Max. 20mA	
Response frequency <sup>*1</sup>		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 $\Omega$ (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 <sup>2</sup> (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.

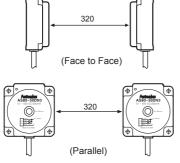
XEnvironment resistance is rated at no freezing or condensation.

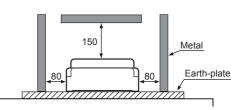


# **Rectangular, Long Sensing Distance Type**



Autonics





D-79