Long Sensing Distance Type

Long distance sensing type proximity sensor

■ Features

- •Able to detect up to as 50mm
- •Improve the noise resistance by adopting dedicated IC
- •Built-in protection circuit of reverse power polarity, surge protection, overcurrent
- ●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 LED
- •Waterproof structure by IP 67 (IEC standard)





■ Type

○DC 4-wire long sensing distance type

Appearance	Model
A SURPLEMENT OF THE PARTY OF TH	AS80-50DN3
	AS80-50DP3

Speicifcations

Model	AS80-50DN3	AS80-50DP3
Sensing type	NPN Normal Open + Normal Close	PNP Normal Open + Normal Close
Sensing distance	50mm ±10%	
Hysteresis	Max. 15% of sensing distance	
Standard sensing target	150×150×1mm(Iron)	
Setting distance	0 ~ 35mm	
Power supply (Operating voltage)	12-48VDC (10-65VDC)	
Current consumption	Max. 10mA	
Response frequency(*1)	100Hz	
Residual voltage	Max. 1.8V	
Affection by Temp.	$\pm 10\%$ Max. for sensing distance at $+20\%$ within temperature range of $-25\sim +70\%$	
Control output	Max. 200mA	
Insulation resistance	Min. 50MΩ (at 500VDC)	
Dielectric strength	1500VAC 50/60Hz for 1 minute	
Vibration	1mm amplitude at frequency of 10 ~ 55Hz in each of X, Y, Z directions for 2 hours	
Shock	500m/s ² (50G) in X, Y, Z direction for 3 times	
Indicator	Operation indicator (Red LED)	
Ambient temperature	-25 ~ +70℃ (at non-freezing status)	
Storage temperature	-30 ~ +80℃ (at non-freezing status)	
Ambient humidity	35 ~ 95%RH	
Protection circuit	Surge protection circuit, Reverse polarity protection, Overload & short circuit protection	
Cable	φ5×4P, 2m	
Protection	IP67 (IEC standard)	
Approval	(€	
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.



(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver & Controller

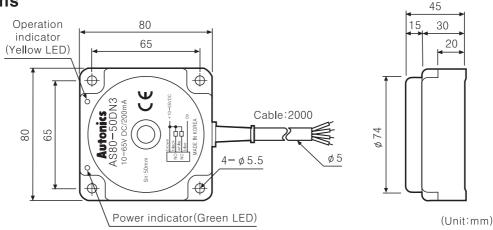
(O) Graphic panel

(P) Production stoppage models & replacement

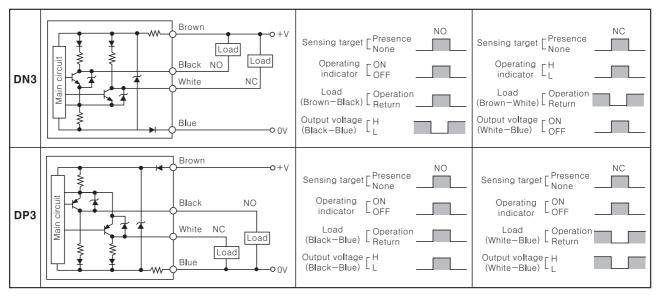
Autonics J-36

AS Series

Dimensions

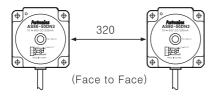


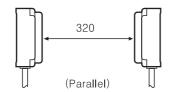
■Control output diagram



■Mutual-interference & Influence by surrounding metals

When several proximity sensors are mounted closely, sensors may cause a malfunction due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors, as picture below.

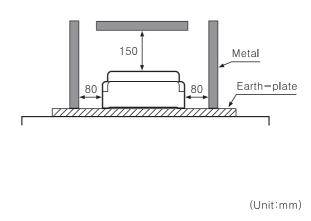




OInfluence by surrounding metals

When sensors are mounted on metallic panel, it may malfunction affected by any metallic object except target.

Therefore, be sure to provide a minimum distance as shown in picture below.



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