

## Inductive long distance Proximity switch

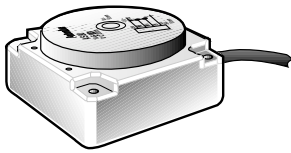
### ■ Features

- 50mm long distance sensing type.
- Selectable normal open & normal close by cables.
- Surge protection circuit.
- Reverse polarity protection.
- Overload & short-circuit protection.
- Power supply(operating voltage)  
:12 to 48VDC(10 to 65VDC)



### ■ Type

○ Inductive long distance sensing type

Appearance		Model
80 angle		<b>AS80-50DN3</b>
		<b>AS80-50DP3</b>

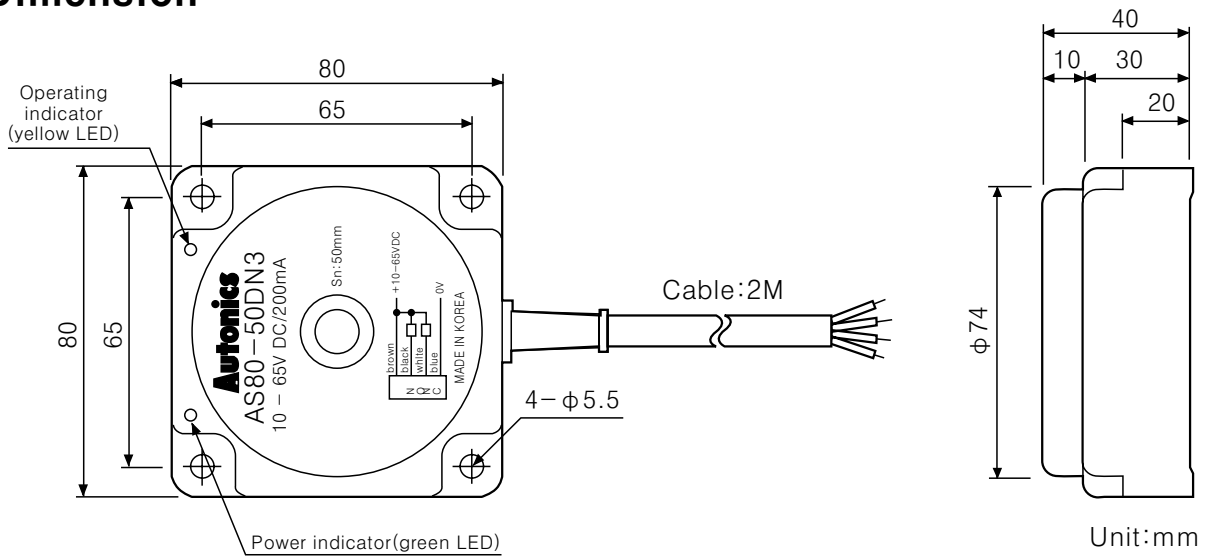
### ■ Specification

Model	<b>AS80-50DN3</b>	<b>AS80-50DP3</b>
Output	NPN Normal Open + Normal Close	PNP Normal Open + Normal Close
Detecting distance	50mm ±10%	
Hysteresis	Max. 15% of detecting distance	
Standard detecting target	150×150×1mm (Iron)	
Setting distance	0 to 35	
Power supply (Operating voltage)	12 to 48VDC (10 to 65VDC)	
Power consumption	Max. 10mA(When the load is not connected)	
Response frequency	100Hz	
Residual voltage	Max. 1.8V	
Variation due to Temp. fluctuation	±10% Max. of detecting distance at +20℃ within temperature range of -25 to +70℃	
Control output	Resistive load:200mA, Inductive load:100mA	
Insulation resistance	Min. 50M $\Omega$ (500VDC)	
Dielectric strength	1500VAC 50/60Hz for 1 minute	
Vibration	1mm amplitude at frequency of 10 to 55Hz in each of X,Y,Z directions for 2 hours	
Shock	500m/s <sup>2</sup> (50G) in X,Y,Z directions for 3 times	
Indicator	Power indicator : green LED, Operating indicator : yellow LED	
Operating temperature	-25 to +70℃ (non-freezing condition)	
Storage temperature	-30 to +80℃ (non-freezing condition)	
Ambient humidity	35 to 95% RH	
Protection circuit	Reverse polarity protection, surge protection circuit, overload & short-circuit protection	
Protection	IP67(IEC specification)	
Weight	About 470g	

※The weight of above chart is net weight.

# AS SERIES

## Dimension



## Control output circuit & operating load

Output	Circuit	Load connection	Load operating	
DN3		(Brown) — +V NO (Black) — Load NC (White) — Load (Blue) — 0V	Detecting target: NO Indicator lamp (LED): ON/OFF Load (Brown-Black) Output voltage (black-blue): H/L	Detecting target: NC Indicator lamp (LED): ON/OFF Load (brown-white) Output voltage (white-blue): H/L
DP3		(Brown) — +V NO (Black) — Load NC (White) — Load (Blue) — 0V	Detecting target: NO Indicator lamp (LED): ON/OFF Load (black-blue) Output voltage (black-blue): H/L	Detecting target: NC Indicator lamp (LED): ON/OFF Load (white-blue) Output voltage (Brown-white): H/L