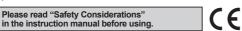
Rectangular, Flat Type Proximity Sensor

Features

- Easy to mount in narrow space by flat structure (height: 10mm)
- Improved the noise immunity with dedicated IC (DC type)
- Built-in reverse polarity protection circuit, output short over current protection circuit (DC type)
- Built-in surge protection circuit
- Red LED operation indicator
- IP67 protection structure (IEC standard)
- Replaceable for micro switches and limit switches



Type ODC 3-wire type

Appearance

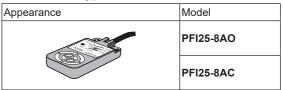
/!



Model
PFI25-8DN
PFI25-8DP
PFI25-8DN2 ※
PFI25-8DP2 💥



◎ AC 2-wire type



※ mark can be customized.

Specification

Model	PFI25-8DN PFI25-8DN2	PFI25-8DP PFI25-8DP2	PFI25-8AO PFI25-8AC	
Sensing side	Upper side			
Sensing distance	8mm			
Hysteresis	Max. 10% of sensing distance			
Standard sensing target	25×25×1mm (iron)			
Setting distance	0 to 5.6mm			
Power supply 12-24VDC (opera ing voltage) (10-30VDC)			100-240VAC~ (85-264VAC~)	
Current consumption/ Leakage current	Max. 10mA		Max. 2.5mA	
Response frequency ^{*1}	200Hz		20Hz	
Residual voltage Max. 1.5V			Max. 10V	
Affection by Temp. Max. ±10% for sensing distance at ambient temperature 20°C			emperature 20°C	
Control output Max. 200mA			5 to 150mA	
Insulation resistance Over 50MΩ (at 500VDC megger)		00VDC megger)		
Dielectric strength	1,500VAC 50/60Hz for 1 min		2,500VAC 50/60Hz for 1 min	
Vibra ion	1mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours			
Shock 500m/s² (approx. 50G) in each X, Y, Z direction for 3 times		on for 3 times		
Indicator	Operation indicator: Red LED			
Environ- Ambient temperatur	e -25 to 70°C, storage: -30 to 80°C			
ment Ambient humidity	35 to 95%RH, storage: 35 to 95%RH			
Protec ion circuit	Surge protection circuit, reverse polarity protection circuit, output short over current protection circuit		Surge protection circuit	
O-hl-	Ø4mm, 3-wire, 2r	m	Ø4mm, 2-wire, 2m	
Cable	AWG22, Core diameter: 0.08mm, Number of cores: 60, Insulator out diameter: Ø1.25			
Material	Case: Poly Phenylene Sulfide, Standard cable (black): Polyvinyl chloride (PVC)			
Protec ion structure	IP67 (IEC standard)			
Approval	CE			
Unit weight	Approx. 70g			

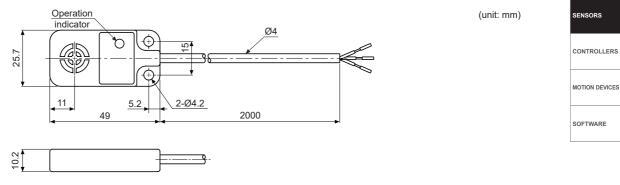
%1: The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

XEnvironment resistance is rated at no freezing or condensation.

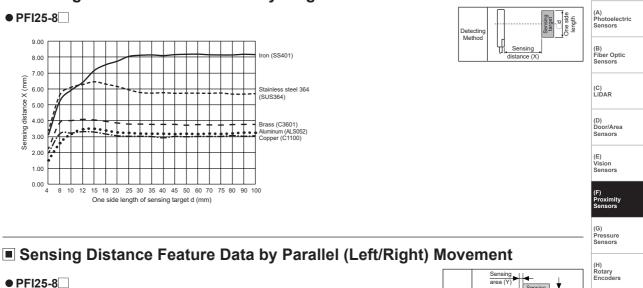
Autonics

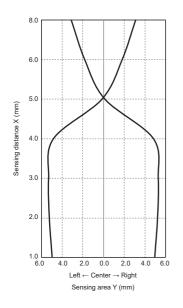
Rectangular, Flat Type

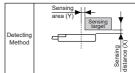
Dimensions



Sensing Distance Feature Data by Target Material and Size

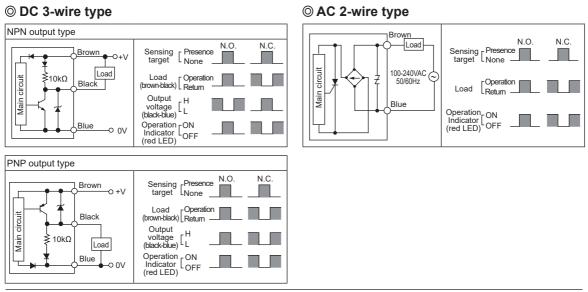






(I) Connectors/ Connector Cables/ Sensor Distribution Boxes/ Sockets

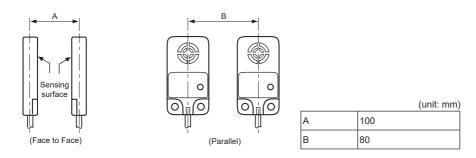
Control Output Diagram and Load Operation



Proper Usage

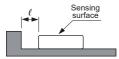
O Mutual-interference

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.

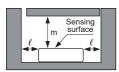


◎ Influence by surrounding metals

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.



When the height between the proximity sensor and surrounding metals is same.



When the height between the proximity sensor and surrounding metals is different.

	(unit: mm
l	5
m	15