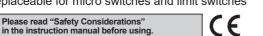
Rectangular, Flat Type Proximity Sensor

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

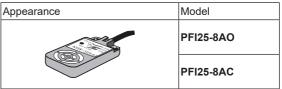
Appearance

/!



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

◎ AC 2-wire type



※ mark can be customized.

Specification

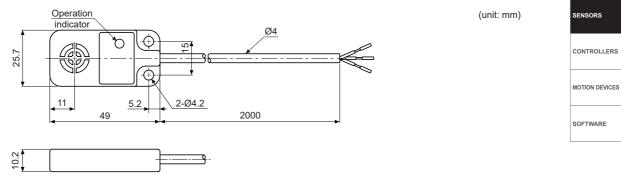
Model		PFI25-8DN PFI25-8DN2	PFI25-8DP PFI25-8DP2	PFI25-8AO PFI25-8AC		
Sensing side		Upper side				
Sensing distance		8mm				
Hysteresis		Max. 10% of sensing distance				
Standard sensing target		25×25×1mm (iron)				
Setting distance		0 to 5.6mm				
Power supply (operating voltage)		12-24VDC (10-30VDC)		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				
Control output		Max. 200mA		5 to 150mA		
Insulatior	n resistance	Over 50MΩ (at 500VDC megger)				
Dielectric strength		1,500VAC 50/60Hz for 1 min		2,500VAC 50/60Hz for 1 min		
Vibration		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				
Indicator		Operation indicator: Red LED				
Environ-	Ambient temperature	e -25 to 70°C, storage: -30 to 80°C				
ment	Ambient humidity	35 to 95%RH, storage: 35 to 95%RH				
Protection circuit		Surge protection circuit, reverse polarity protection circuit, output short over current protection circuit		Surge protection circuit		
Cable		Ø4mm, 3-wire, 2m	า	Ø4mm, 2-wire, 2m		
		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)				
Protection structure		IP67 (IEC standard)				
Approval		(€				
Unit weight		Approx. 70g				

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.

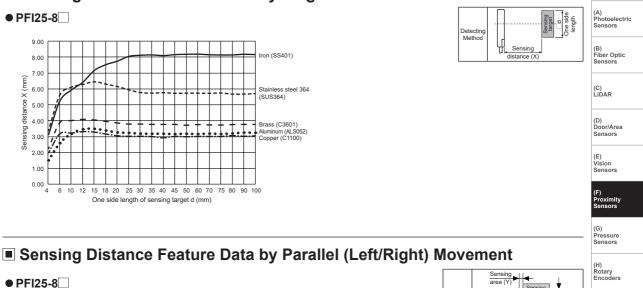
XEnvironment resistance is rated at no freezing or condensation.

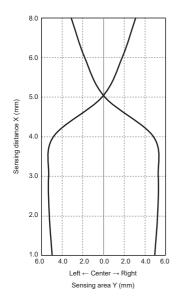
Rectangular, Flat Type

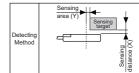
Dimensions



Sensing Distance Feature Data by Target Material and Size

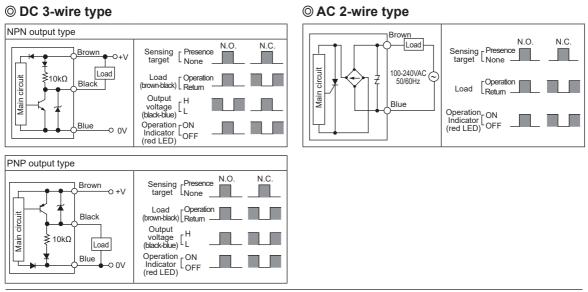






(I) Connectors/ Connector Cables/ Sensor Distribution Boxes/ Sockets

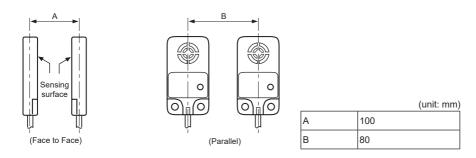
Control Output Diagram and Load Operation



Proper Usage

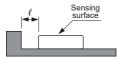
O Mutual-interference

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.

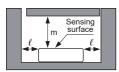


◎ Influence by surrounding metals

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