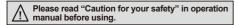
Flat type proximity sensor

Features

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







Type

O DC 3-wire type

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

* mark can be customized.

AC 2-wire type

Appearance	Model
	PFI25-8AO
	PFI25-8AC

Specification

Model		PFI25-8DN PFI25-8DN2	PFI25-8DP PFI25-8DP2	PFI25-8AO PFI25-8AC		
Sensing of	distance	8mm				
Hysteresi	resis 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/Leakage consumption		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		
Insulation resistance		Min. 50MΩ(at 500VDC megger)				
Dielectric strength		1,500VAC 50/60Hz for 1 minute		2,500VAC 50/60Hz for 1 minute		
Vibration		1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours				
Shock		500m/s²(approx. 50G) in each of X, Y, Z directions for 3 times				
Indicator		Operation indicator(red LED)				
Environ- Ambient temperature ment Ambient humidity		-25 to 70°C, storage: -30 to 80°C				
		35 to 95%RH, storage: 35 to 95%RH				
Protection circuit		Surge protection of Reverse polarity protection Overcurrent protections.	rotection circuit,	Surge protection circuit		
Cable		ø4, 3-wire, 2m		ø4, 2-wire, 2m		
		(AWG22, Core diameter: 0.08mm, Number of cores: 60, Insulator out diameter: ø1.25)				
Material		Case: PPS, General cable(Black): Polyvinyl chloride(PVC)				
Protection		IP67(IEC standard)				
Approval		CE				
Unit weig	ıht	Approx. 70g				

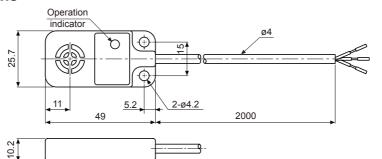
imes 1: The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

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XEnvironment resistance is rated at no freezing or condensation.

(unit: mm)

Dimensions



(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

> (D) Proximity

(E) Pressure sensor

> (F) Rotary

(6)

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

Counter

(K) Timer

meter (M)

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

O) Sensor controller

(P) Switching mode power supply

(Q) Stepper motor& Driver&Controller

(R) Graphic/ Logic panel

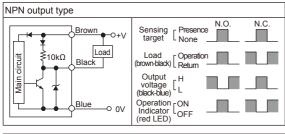
(S) Field network device

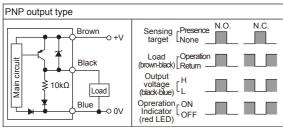
(T) Software

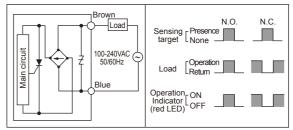
(U) Other

Control output diagram

O DC 3-wire type





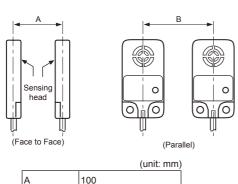


Proper usage

В

Mutual-interference

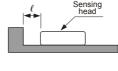
When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.



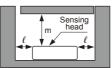
80

◎ 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)
e	5
m	15

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