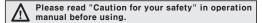
PFI Series Flat Type

Flat type proximity sensor

■ Features

- Easy to mount in narrow space by flat structure (Height: 10mm)
- •Integrated surge protection circuit
- •Integrated overload & short protection circuit, reverse polarity protection circuit (DC type)
- •Improved the noise resistance with dedicated IC (DC type)
- •Red LED status indication
- •Protection structure IP67 (IEC standard)
- •Replaceable for micro switches and limit switches





Type

○DC 3-wire type

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

▶"*" mark can be customized.

OAC 2-wire type

Appearance	Model
	PFI25-8AO
	PFI25-8AC

■ Specification

Model	PFI25-8DN PFI25-8DP PFI25-8DN2 PFI25-8DP2	PFI25-8AO PFI25-8AC	
Sensing distance	8mm		
Hysteresis	Max. 10% of sensing distance		
Standard sensing target	25×25×1mm(Iron)		
Setting distance	0 to 5.6	Smm	
Power supply (Operating voltage)	12-24VDC (10-30VDC)	100-240VDC (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.	When it is 20°C at the rated ambient temperature, it is below 10%.		
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 in each of X, Y, Z directions for 2 hours		
Shock	500m/s ² (50G) in X, Y, Z direction for 3 times		
Indicator	Output operation indicator (Red LED)		
Ambient temperature	-25 to 70℃ (at non-freezing status)		
Storage temperature	-30 to 80℃ (at non-freezing status)		
Ambient humidity	35 to 95%RH		
Protection circuit	Surge protection circuit, Reverse polarity proteciton circuit, Overload & Short protection circuit	Surge protection circuit	
Cable	φ 4×3P, 2m	φ4×2P, 2m	
Protection	IP67 (IEC standard)		
Material	Case: PPS, General cable(Black): Polyvinyl chloride(PVC)		
Approval	(€		
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.

Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

> (J) Counter

(K) Timer

(L)

Panel meter (M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor controller

(P) Switching power supply

(Q) Stepping motor & Driver & Controller

Graphic/ Logic panel

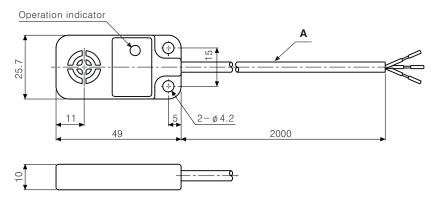
(S) Field network device

(T) Production stoppage models & replacement

Autonics D-48

PFI Series

Dimensions

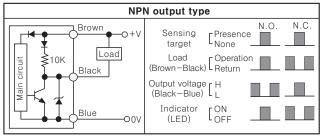


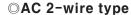
**"A" type: φ4, 2 cores / φ4, 3 cores (Conductor cross section: 0.3ππ, Insulator diameter: φ1.25)

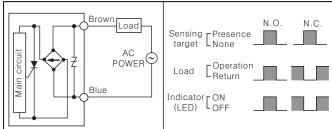
(Unit:mm)

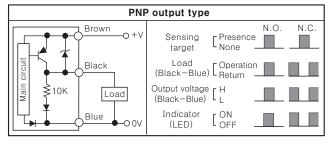
■Control output diagram

○DC 3-wire type



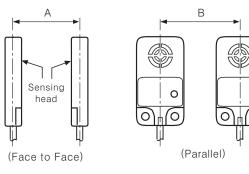






Proper usage

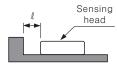
When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.



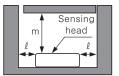
А	100	
В	80	(Unit:mm)

©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.

l	5	
m	15	(Unit:mm)

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