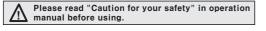
Flat type proximity sensor

■ Features

- Easy to mount in narrow space by Flat structure (Height: 10mm)
- •Improved the noise resistance with dedicated IC(DC)
- •Reverse power polarity, surge, overcurrent protection
- •Red LED status indication
- •IP67 rated waterproof structure (IEC standard)
- •Replacer for micro switches and limit switches





■ Type

ODC 3-wire type

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

▶"*" mark can be customized.

OAC 3-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 ±10%			
Hysteresis	Max. 10% of sensing distance			
Standard sensing target	$25 \times 25 \times 1$ mm (Iron)			
Setting distance	0 ~ 5.6mm			
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.	$\pm 10\%$ Max. for sensing distance at $+20\%$ within temperature range of $-25\sim +70\%$			
Control output	Max. 200mA	Max. 150mA		
Insulation resistance	Min. 50MΩ (at 500VDC mega)			
Dielectric strength	1500VAC 50/60Hz for 1 minute	2500VAC 50/60Hz for 1 minute		
Vibration	1mm amplitude at frequency of 10 ~ 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	Operation indicator (Red LED)			
Ambient temperature	-25 ~ +70℃ (at non-freezing status)			
Storage temperature	-30 ~ +80℃ (at non-freezing status)			
Ambient humidity	35 ~ 95%RH			
Protection circuit	Surge, Reverse poewer polarity, Overcurrent protection circuit	Surge protection circuit		
Cable	φ4×3P, 2m	φ 4×2P, 2m		
Protection	IP67 (IEC standard)			
Approval	(€			
Unit weight	Approx. 80g			

^{*(*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.

(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver & Controller

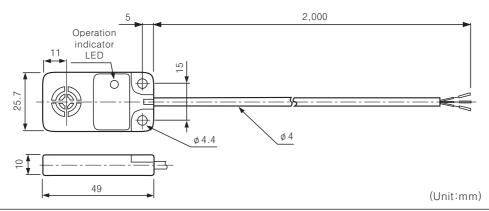
(O) Graphic panel

(P) Production stoppage models & replacement

Autonics J-38

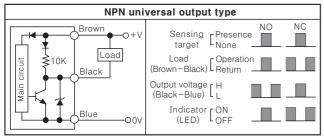
PFI Series

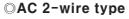
Dimensions

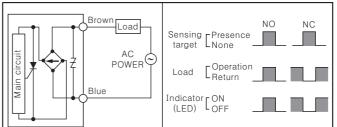


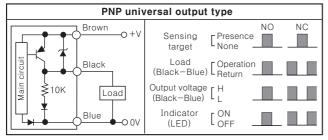
■Control output diagram

○DC 3-wire type







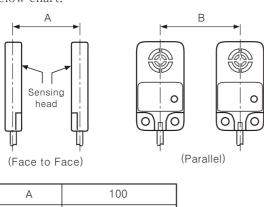


Proper usage

В

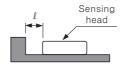
@Mutual-interference

When several proximity sensors are mounted closely, sensors may cause a malfunction due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors, as below chart.

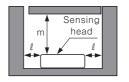


OInfluence by surrounding metals

When sensors are mounted on metallic panel, it may cause malfunction affected by any metallic object except target. Therefore, be sure to provide a minimum as below chart.



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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(Unit:mm)

80