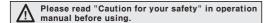
Flat type proximity sensor

■ Features

- Easy to mount in narrow space by Flat structure (Height: 10mm)
- •Improved the noise resistance with dedicated IC(DC)
- Reverse power polarity (DC), surge (AC/DC), overcurrent protection (DC)
- •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/s² (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	φ 4×3P, 2m	φ 4×2P, 2m	
Protection	IP67(IEC standard)		
Approval	C	€	
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.

Counter

(A)

(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

Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver & Controller

(O) Graphic panel

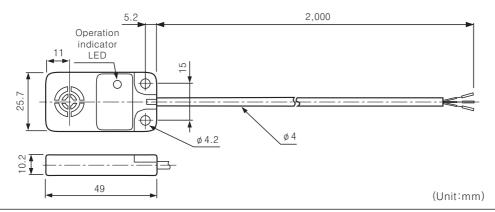
(P) Field network device

(Q) Production stoppage models & replacement

Autonics J-40

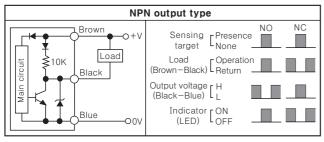
PFI Series

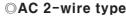
Dimensions

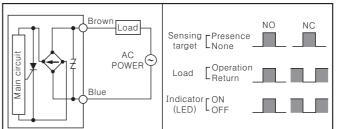


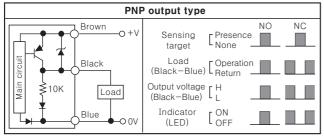
■Control output diagram

○DC 3-wire type





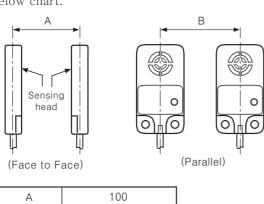




Proper usage

@Mutual-interference

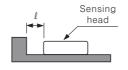
When several proximity sensors are mounted closely, sensors may cause a malfunction due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors, as below chart.



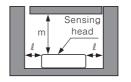
А	100	
В	80	(Unit:mm)

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	(Uni

(Unit:mm)

J-41 Autonics