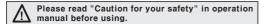
Flat Housing Type

Flat type proximity sensor

■ Features

- •Easy to mount in narrow space by Flat structures (Height:10mm)
- •Enhanced noise-resistance by using exclusive IC(DC power)
- •Reverse polarity protection, Surge protection function
- •Able to check the status of operation by Red LED indicator
- •Wide range of applications, for replacement of Micro switch,
- ●Driving the load of 200mA directly within range of 10-30VDC power source.(Resistive load)
- •Water proof structure by IP 67 (IEC specification)



■ Type

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

▶ * Mark is optional.

■ Specifications

| Model | PFI25-8DN PFI25-8DP PFI25-8DN2 PFI25-8DP2 |
|-------------------------------------|--|
| Detecting distance | 8mm ±10% |
| Hysteresis | Max. 10% of detecting distance |
| Standard detecting target | $25 \times 25 \times 1$ mm (Iron) |
| Setting distance | 0 ~ 5.6mm |
| Power supply (Operating voltage) | 12-24VDC (10-30VDC) |
| Current consumption | Max. 10mA |
| Response frequency | 200Hz |
| Residual voltage | Max. 1.5V |
| Affection by Temp. | $\pm 10\%$ Max. of detecting distance at $+20\%$ within temperature range of $-25\sim +70\%$ |
| Control output | 200mA |
| Insulation resistance | Min. 50MΩ (at 500VDC) |
| Dielectric strength | 1500VAC 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 directions 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 protection circuit, Reverse polarity protection, Overload & short circuit protection |
| Protection | IP67 (IEC specification) |
| Weight | Approx. 80g |



(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) Proximity sensor

(J) Photo electric sensor

(K) Pressure sensor

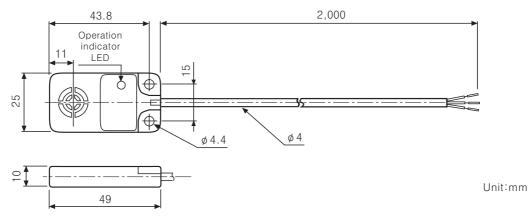
(L) Rotary encoder

(M) 5-Phase stepping motor & Driver & Controller

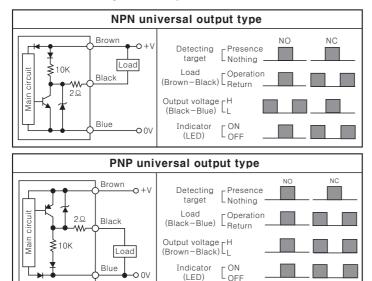
Autonics I-34

PFI Series

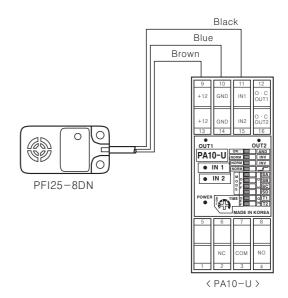
Dimensions



■Control output diagram

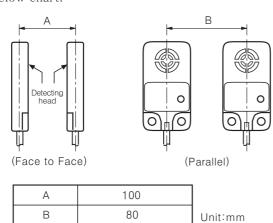


Connections



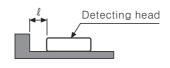
■Proper usage

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

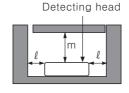


OInfluence by surrounding metals

When sensors are mounted on metallic panel, you must prevent sensors from being 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 the same.



When the height between the proximity sensor and surrounding metals is different.

| l | 5 | |
|---|----|----|
| m | 15 | Uı |

Unit:mm

I-35 Autonics