

■ Sp	ecificat	ions					
Model		PSN25-5AO PSN25-5AC	PSN30-10AO PSN30-10AC	PSN30-15AO PSN30-15AC	PSN40-20AO PSN40-20AC		
Sensing distance		5mm	10mm	15mm	20mm		
Hysteresis		Max. 10% of sensing distance					
Standard sensing arget		25×25×1mm(Iron)	30×30×1mm(Iron)	45×45×1mm(Iron)	60×60×1mm(Iron		
Setting distance		0 to 3.5mm	0 to 7mm	0 to 10.5mm	0 to 14mm		
Power supply (Operating voltage)		100-240VAC~ 50/60Hz (85-264VAC~)					
Lackage	current	Max. 2.5mA					
Response frequency		20Hz					
Residual voltage		Max. 10V					
Effect by Temp.		Within ±10°C max. of sensing distance at 20°C in temperature range of -25 to 70°C					
Control output		5 to 200mA					
Insulation resistance		Min. 50MQ(at 500VDC megger)					
Dielectric strength		1,500VAC 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 (approx. 50G) in X, Y, Z directions for 3 times					
Indicator		Operating indicator(Red LED)					
Environ-	Ambient temperature	e -25 to 70°C, Storage: -30 to 80°C					
ment	Ambient humidity	35 to 95%RH, Storage: 35 to 95%RH					
Protectio	n circuit	Surge protection					
Protection		IP67(IEC standards)					
Cable ^{**1}		Ø4mm, 2 cores, 2m (AWG22, core diameter: 0.08mm, number of cores: 60, insulator diameter: Ø1.25mm)					
Materials		Case: Heat-resistant A	BS, Standard cable(Bl	ack): Polyvinyl chloride	(PVC)		
Approval		CE					
Unit Weight		Approx. 65g	Approx. 106g		Approx. 152g		

extending wire, use AWG22 cable or over within 200m.

* Environment resistance is rated at no freezing or condensation.

Dimensions



When installing the product, tighten the screw with a tightening torque of 0.98N·m



tual-interference & Influence by Surrounding Metals

nterference



e by surrounding metals

sors are mounted on metallic panel, it is required to protect the sensors from malfunction by any metallic object. Therefore, keep a minimum distance as below chart. (Unit: mm)

Model	PSN25	PSI	2011/0	
Item		10mm	15mm	PSN40
A	30	60	90	120
В	40	50	65	70
С	5	5	5	5
d	15	30	45	60
ł	25	30	45	45
m	20	25	35	35

ting Distance

Sensing distance can be changed by the shape, size or material of the target.
Therefore please check the sensing distance like (a), then pass the target within range of setting distance(Sa) like (b).

Setting distance(Sa)= Sensing distance(Sn) × 70% E.g.) PSN30-10AO Setting distance(Sa) = 10mm × 0.7 = 7mm

(Unit: mm)

PSN40

40

47

Ø5.5

30

40

25

53

4

- Caution during Use 2. Wire as short as possible and keep away from high voltage lines or power lines, to prevent surge and inductive noise. Do not use near the equipment which generates strong magnetic force or high frequency noise (transceiver, etc.).
- to remove surge. Do not connect capacity load to the output terminal directly
 This unit may be used in the following environments. (1) Indoors (in the environment condition rated in 'Specifications')
- ② Altitude max 2 000m ③ Pollution degree 2
- Installation category II

Major Products

Control Šwitches/Lamp I/O Terminal Blocks & Stepper Motors/Drivers Graphic/Logic Panels Field Network Devices Laser Marking System	os/Buzzers Cables s/Motion C (Fiber, Co
	Area Sensors Proximity Sensors Pressure Sensors Rotary Encoders Connectors/Sockets Switching Mode Power Control Switches/Lamp I/O Terminal Blocks & Stepper Motors/Drivers Graphic/Logic Panels









eral proximity sensors are mounted closely, malfunction of sensor may be caused due to mutual interference. Therefore, be ep a minimum distance between the two sensors as below chart









1. Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents.

In case installing the product near the equipment which generates strong surge (motor, welding machine, etc.), use diode or varistor

rature Controllers rature/Humidity Transducers Power Controllers Meters meters/Pulse (Rate) Meters Autonics Corporation Units Controllers http://www.autonics.com HEADQUARTERS: 18, Bansong-ro 513 beon-gil, Haeundae-gu, Busan, South Korea, 48002 Controllers TEL: 82-51-519-3232 E-mail: sales@autonics.com o₂, Nd: YAG) DRW171507AA