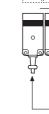


Mutual-interference sure to keep a minimum distance between the two sensors as below chart Face to Face Differential frequency type below picture. *Differential frequency type is only for PSN17



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

Model	PSN17		PSN25	PSN30		PSN40
tem	5mm	8mm	P3N25	10mm	15mm	P 31140
A	30	48	30	60	90	120
В	36	40	40	50	65	70
С	5	5	5	5	5	5
d	15	24	15	30	45	60
ł	24	33	25	30	45	45
m	18	20	20	25	35	35

Setting Distance

Sensing distance can be changed by the shape, size or material of the target. Therefore please check the sensing distance as (a), then pass the target within range of setting distance(Sa) as (b). Setting distance(Sa) = Sensing distance(Sn) × 70%

E g.) PSN30-10DN Setting distance(Sa) = 10mm × 0.7 = 7mm

Caution during Use

- noise
- diode or varistor to remove surge. 5. This unit may be used in the following environments.
- ① Indoors (in the environment condition rated in 'Specifications')
- 2 Altitude max. 2,000m
- ③ Pollu ion degree 2 Installation category II

Major Products

Photoelectric Sensors	Temperature Control			
Fiber Optic Sensors	Temperature/Humidi			
Door Sensors	SSRs/Power Contro			
Door Side Sensors	Counters			
Area Sensors	Timers			
Proximity Sensors	Panel Meters			
Pressure Sensors	Tachometers/Pulse(
Rotary Encoders	Display Units			
Connectors/Sockets	Sensor Controllers			
Switching Mode Power Supplies				
Control Switches/Lamps/Buzzers				
I/O Terminal Blocks & Cables				
Stepper Motors/Drivers/Motion Controllers				

Mutual-interference & Influence by Surrounding Metals

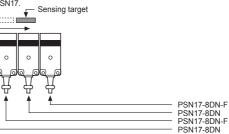
Parallel

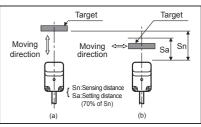
When several proximity sensors are mounted closely, malfunction of sensor may be caused due to mutual interference. Therefore, be





When install several proximity sensor closely, it may cause malfunction due to mutual interference. Therefore please use differential frequency as





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

2. 12-24VDC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device. 3. Use the product, after 0.8 sec of supplying power.

4. Wire as short as possible and keep away from high voltage lines or power lines, to prevent surge and inductive

Do not use near he equipment which generates strong magne ic force or high frequency noise (transceiver, etc.). In case installing the product near the equipment which generates strong surge (motor, welding machine, etc.), use

Graphic/Logic Panels ty Transducers Field Network Devices

Laser Marking System(Fiber, CO₂, Nd:YAG) Laser Welding/Cutting System

Rate) Meters

DRW171503AA