

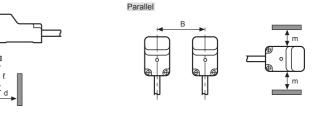
Specific										Mutual-interference Mutual-interference
Model	PSN17-5DP F PSN17-5DN2 F PSN17-5DP2 F PSN17-5DPU F PSN17-5DN2U F PSN17-5DPU F PSN17-5DPU F PSN17-5DP-U F F PSN17-5DN-F F F F F F F F F F F F F F F F F F F F	SN17-8DN SN17-8DP2 SN17-8DP2 SN17-8DPU SN17-8DPU SN17-8DPU SN17-8DP2U SN17-8DP2U SN17-8DP2U SN17-8DP2F SN17-8DP2-F SN17-8DP2-F SN17-8DPU-F SN17-8DPU-F SN17-8DP2U-F	PSN25-5DN PSN25-5DP PSN25-5DN2 PSN25-5DP2	PSN30-10DN PSN30-10DP PSN30-10DN2 PSN30-10DP2		PSN30-1: PSN30-1: PSN30-1: PSN30-1:	5DP 5DN2	PSN40-2 PSN40-2 PSN40-2 PSN40-2	ODP ODN2	When several proximity sensors are in sure to keep a minimum distance beth Face to Face
Sensing distance	5mm 8	mm	5mm	10mm		15mm		20mm		When install several proximity sensor clo below picture.
Hysteresis	Max. 10% of sensing	distance								*Differential frequency type is only for P
Standard sensing target	18×18×1mm(Iron) 2	5×25×1mm(Iron)		30×30×1mm(	lron)	45×45×1	Imm(Iron)	60×60×1	mm(Iron)	
Setting distance	0 to 3.5mm 0	to 5mm	0 to 3.5mm	0 to 7mm		0 to 10.5	imm	0 to 14m	m	
Power supply (Voltage range)	12-24VDC== (10-30VDC==)							1		ہ م_0
Current consumption	Max. 10mA									H Å
Response	700Hz 2	00Hz	350Hz	250Hz		200Hz		100Hz		1
frequency <sup>×1</sup> Residual voltage	Max. 1.5V		1	-						
Effect by Temp.	Max. 1.5V Within ±10°C max. of sensing distance at 20°C in temperature range of -25 to 70°C									○ Influence by surrounding metals
Control output	Max. 200mA			When sensors are mounted on metalli sure to keep a minimum distance as be						
Insulation resistance	Min. 50MQ(at 500VDC	c megger)								Model PSN
Dielectric strength	1,500VAC 50/60Hz fo		]	Item 5mm						
Vibration	1mm amplitude at fre			Y, Z directions for	r 2 ho	ours				A 30 B 36
Shock	500m/s <sup>2</sup> (approx. 500		tions for 3 times					-		B 36 C 5
	Operation indicator(F	Operation indicator(Red LED)								d 15
Ambient temperature	-25 to 70°C, Storage: -	-30 to 80°C								ℓ 24 m 18
Ambient temperature Ambient humidity	35 to 95%RH, Storage	e: 35 to 95%RH	Setting Distance							
Protection circuit	Surge protection circ	uit, Overload & Sl	hort protection circ	cuit, Reverse pola	rity p	rotection of	circuit			
Protection	IP67(IEC standard) ø4mm, 3 cores, 2m (AWG22, core diameter: 0.08mm, number of cores: 60, insulator diameter: Ø1.25mm)									
Cable <sup>*2</sup>						ulator dia	meter: Ø1	.25mm)		
Materials	Case: Heat-resistant	ABS, Standard ca	able(Black): Polyv	Inyl chloride(PVC	).					
Approval								450		
Unit Weight	Approx. 71g A equency is the average	Approx. 70g	a condition is using	Approx. 111g	ing to	met The i	nterval is a	Approx. et as 2 tim	Ů	
standard sensi 2: Do not pull the c	ng target, and the setting able with a tensile stren og wire, use AWG22 cab	g distance is set for gth of 30N or over.	r 1/2 of the sensing It may result in fire	distance.	-	-		ς, ασ <b>∠</b> (III)	55 OF UIC	Constitution distance and the second second
	tance is rated at no freez	ring or condensatio	on.							Sensing distance can be changed by th Therefore please check the sensing dist Setting distance(Sa) = Sensing distance
Dimensi	ons	I						(l	Jnit: mm)	E.g.) PSN30-10DN Setting distance(Sa) = 10mm × 0
P	SN17	PS	N25, PSN30, PSN	140		PSN17	PSN25	PSN30	PSN40	
В			В		A	18	25	30	40	Caution during Use
					в	30.8	35.5	48.5	47	1. Follow instructions in 'Cautions of 2. 12-24VDC power supply should
A G		A		⊐ Τ	С	ø3.2	ø4.2	ø4.5	ø5.5	3. Use the product, after 0.8 sec of
¥ [			IJ <u></u> ∖@	<b>t</b>	D	11	18	22	30	4. Wire as short as possible and keep
*					E	18	25.3	30	40	noise. Do not use near the equipment
E		E F	╶───╕┆		F	-	16.8	20	25	In case installing the product ne
<b>↓</b> L	╺┤╺╋╵╵───╒	`│ <u>◆ `↓</u> ┣			G	35.6	39	53	53	diode or varistor to remove surg 5. This unit may be used in the foll
G	2,000		G	2,000	н	4	4	4	4	1 Indoors (in the environment of
When installing	g the product, tighte	n the screw wit	h a tightening to	orque of 0.98N	لــــا •m. (	PSN17:	ı 0.49N∙m	)		<ul><li>2 Altitude max. 2,000m</li><li>3 Pollution degree 2</li></ul>
) Bracket			. 3							④ Installation category II
•PSN17	•P	SN25	•PS	N30			•PSN40			Major Producto
32		P 3.5	2-M4 T/	34 3.5	<b> </b> _	2 14	5 TAP	35 6	• ۵	Major Products     Photoelectric Sensors Temperature Control
-M3 TAP 4.75	<u>د.</u> ۲. <u>2-M4 TA</u>				24:3	<u>2-1/13</u>		<u>†</u>	2 2	Fiber Optic Sensors Temperature/Humid
_ד_ל+)⊨				,†TÌ⊨	Ħ			° ====		Door Sensors     SSRs/Power Contro     Door Side Sensors     Counters
°°↓∓↓ ↓ ↓	22 <b>1</b> 2	°↓↓ ⊨	30.5			40 <sup>1</sup>	8		53	Area Sensors
·	18	17.5	ן <u>∔</u>		ן		↓ <u>*</u> [¢		<u>,</u>	Proximity Sensors     Panel Meters     Pressure Sensors     Tachometers/Pulser
<del>4</del>		l₄	L .	17.8				<b>1</b> 9.5	•	Rotary Encoders Display Units
10		11.8		14			15.	5 *1		Connectors/Sockets Sensor Controllers Switching Mode Power Supplies
<b></b> ▶	1						ਾ⊑ਿ			Control Switches/Lamps/Buzzers

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## e & Influence by Surrounding Metals

nounted closely, malfunction of sensor may be caused due to mutual interference. Therefore, be veen the two sensors as below chart

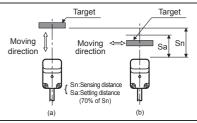


selv, it may cause malfunction due to mutual interference. Therefore please use differential frequency as



panel, it is required to protect the sensors from malfunction by any metallic object. Therefore, be low chart. (Unit: mm)

117	DOMOS	PSI	DONIAO		
8mm	PSN25	10mm	15mm	PSN40	
48	30	60	90	120	
40	40	50	65	70	
5	5	5	5	5	
24	15	30	45	60	
33	25	30	45	45	
20	20	25	35	35	



e shape, size or material of the target.

stance as (a), then pass the target within range of setting distance(Sa) as (b)

e(Sn) × 70%

7 = 7mm

during Use'. Otherwise, it may cause unexpected accidents.

be insulated and limited voltage/current or Class 2, SELV power supply device supplying power

eep away from high voltage lines or power lines, to prevent surge and inductive

which generates strong magnetic force or high frequency noise (transceiver, etc.). ar the equipment which generates strong surge (motor, welding machine, etc.), use

owing environments.

condition rated in 'Specifications')

llers

Graphic/Logic Panels ty Transducers Field Network Devices Laser Marking System(Fiber, CO<sub>2</sub>, Laser Welding/Cutting System



Rate) Meters

Stepper Motors/Drivers/Motion Controllers

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