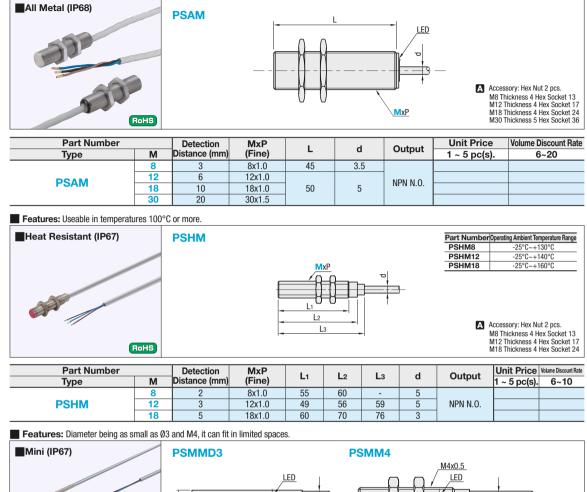


Do not use this product as a detection device for human body protection. (For human body protection, use products compliant with the local laws and regulations such as OSHA, ANSI and IEC.)

Features: Case and detection surface with strong stainless steel one piece housing. High shock resistance allows stable detection even when coming to contact with workpiece.



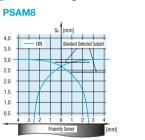
8 -)2.6 (RoHS Dotootic Unit Price Volume Discount Bate

Part Number	Detection	Output	Unit Price	Volume Discount Rate				
Fait Number	Distance (mm)	Output	1 ~ 5 pc(s).	6~20				
PSMMD3	1	NPN N.O.						
PSMM4								
For orders larger than indicated quantity, please check with WOS.								

Ordering Part Number Example PSAM8 PSHM12 PSMM4

Туре	All Metal				Heat Resistant			Mini	
Part Number	PSAM8	PSAM12	PSAM18	PSAM30	PSHM8	PSHM12	PSHM18	PSMMD3	PSMM4
Size	M8	M12	M18	M30	M8	M12	M18	Ø3	M4
Detection Distance	3mm	6mm	10mm	20mm	2mm	3mm	5mm	1m	
Output Format / Operation Mode	NPN / N.O.(Normally Open)				NPN / N.O.(Normally Oper	n)	NPN / N.O.(Normally Open)		
Power Supply	DC (3-Wire)					DC (3-Wire)			
Cable	03.5 05 PUR Cable 2m PUR Cable 2m			03 03 Silicon 2m Teflon 2m			Ø3 PUR Cable 2m		
Structure of Detecting Head (How to Use)	Shield Type (Embedded use allowable)				Shield Type (Embedded use allowable)			Shield Type (Embedded use allowable)	
Detected Object	All Metal Compensation factor when iron (FE360) is 1 (as Ref. value) Aluminum: 1 Copper 0.8 (0.9 for M8) Brass: 1.3 Stainless Steel 1mm Thick: 0.5 (0.3 for M8), Stainless Steel 2mm Thick: 0.9 (0.6 for M8)				Compensation Aluminum: 0.25 (0.2 for M1 Brass: 0.35 (0.15 for M12, and	All Metal Compensation factor when iron (F2360) is 1 (as Ref. valu Aluminum: 0.5 Copper: 0.45 Brass: 0.6 Stainless Steel: 0.8			
Hysteresis	15% of effective detection distance Sr or less			3 ~ 15% of effective detection distance Sr 2 ~ 20% of effective detection distance			r 10% of effective detection distance Sr or I		
Supply Voltage Range	10~30V DC				10~30V DC			10~30V DC	
Output Current	200mA Max.				120mA(≤100°C) 80mA(>100°C)	120mA(≤100°C) 70mA(>100°C)	150mA	100mA Max.	
Supply Current at No Load	10mA Max.				10mA Max.			10mA Max.	
Max. Frequency Response	800Hz	600Hz	200Hz	120Hz	600Hz	500Hz	400Hz	300	0Hz
Operating Ambient Temperature Range		-25~-	⊦70°C		0~+140°C	0~+150°C	0~+180°C	-25~-	-70°C
LED Operation Indicator Lamp	Detecting in Stable Range: ON Detecting in Unstable Range: Blink				- IP67			ON	
Protection Structure	IP68					IP67			
Built-in Protection Circuit	Short Circuit Protection, Over Current Protection Reverse Polarity Protection, Induction Protection EMC Protection, Power-ON Reset				Short Circu Reverse Po EM	Short Circuit Protection, Over Current Protecti Reverse Polarity Protection, Induction Protecti EMC Protection, Power-ON Reset			
Case Material	EN 1.4305 Equiv.		EN 1.4305 Equiv.		EN 1.4305 Equ				
Tightening Torque (N · m)	4	10	50	150	4	10	20	-	0.8
Features	1. Long range detection. 2. Nonferrous metals (Aluminum, Brass etc.) detection distance Equiv. of iron. 3. The case and detection surface made of strong stainless steel one piece housing, resistant to shocks and stable detection possible even when coming to contact with objects. 4. Dusts on detecting surface can be cleaned with a metallic brush. 5. It can be used as the proximity sensor for welding spatter measures. 6. Highly water and drip resistant ((P68), and is suitable in cleaning solution solashes. Applicable for use in water.				 Eliminates provision of a Highly water resistant temperature environn Robust stainless stee 	 Although this is extremely small its detection distance is Tmm. This compact design allows installation in limited spaces. Robust stainless steel case. 			

Detection Range Characteristics



3.0 25

2.0 1.5

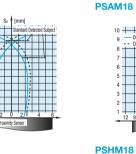
1.0

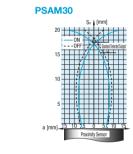
0.5

Accessory: Hex Nut 2 pcs. (PSMM4 only) M4 Thickness 2 Hex Socket 6

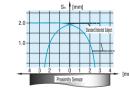
PSHM8

PSMMD3





- - 0FF

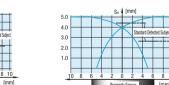


PSMM4

- - OFF

PSHM12

PSAM12



Circuit Diagram (Common)

