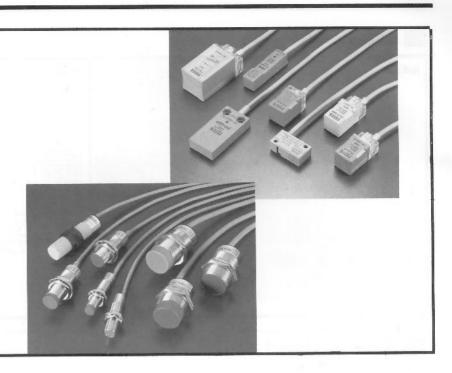
PS/PM Series

INDUCTIVE PROXIMITY SENSOR

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- * DC type have short circuit protection, polarity reversed protection; AC type have surge absorbing circuit may avoid damaged
- High solid compact structure - IP67 applied in poor circum stance suitable
- * All models with operating LED, adjusted conveniently.



Model Guiding

Tubular Type

Ex.PM-12-04 N B-S

0 2 3 4 5 6

- Type 形狀
 PM = Screw Type
- ② <u>Outline Diameter</u> 外徑 12 = M12 18 = M18

30 = M30

- ③ <u>Sensing Distance</u> <u>檢測距離</u>
 02 = 2.0mm 10 = 10.0mm
 05 = 5.0mm 15 = 15.0mm
- (4) Output Method 輸出方式

N = NPN P = PNPS = SCR

- (5) Output Status
 B = NC Type
 Non = No Type
- ⑥ Length of Body
 S = Short Type
 Non = Standard Type

Note: The B < NC > Type Have No Stock Maybe, Accepted Order To Manufacture.

Square Type

Ex.<u>PS</u> - <u>04</u> <u>N</u> <u>B</u> - <u>V</u> ① ② ③ ④ ⑤

- Type 形狀
 PS = Square Type PP = Plate Type
 PL = Long Type BS = Micro Type
- ② <u>Sensing Distance</u> 檢測距離 04 = 4.0mm 10 = 10.0mm 05 = 5.0mm 15 = 15.0mm
- ③ <u>Output Method</u> 輸出方式 N = NPN P = PNP S = SCR
- Output Status
 B = NC Type
 Non = No Type
- (5) <u>Direction of Sensing</u> 檢測方面 V = Vertical Type Non = Horizontal Type

M8/M12 Tubular Type

Outline Dimension	Model	Output Status	Output Method	Operating Voltage	Sensing Direction	Response Frequency	Mounting Method
14.8 M6 X 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM08-01N	NO	NPN	10 ~ 30 VDC	1.0mm	2.5KHZ	Flushed
	PM08-01NB	NC					
	PM08-01P	NO	PNP				
	PM08-01PB	NC					
14.8 M8 X 1.0 0	PM08-02N	NO	NPN	10 ~ 30 VDC	2.0mm	2.5KHZ	Non- Flushed
	PM08-02NB	NC					
	PM08-02P	NO	PNP				
	PM08-02PB	NC					
20.0 LED 20.0 10.0 10.0 10.0	PM12-02N-S	NO		10 ~ 30 VDC	2.0mm	2.5KHZ	Flushed
	PM12-02NB-S	NC	NPN				
	PM12-02P-S	NO	DATE				
	PM12-02PB-S	NC	PNP				
20.0 M12 X 1.0 M0 DD	PM12-04N-S	NO	NPN	10 ~ 30 VDC	4.0mm	2.5KHZ	Non- Flushed
	PM12-04NB-S	NC					
	PM12-04P-S	NO	PNP				
	PM12-04PB-S	NC					
20.0 H12 X 1.0 10.0 10.0 10.0 10.0 10.0 10.0 10.	PM12-02N	NO	NPN	10~30 VDC	2.0mm	2.5KHZ	Flushed
	PM12-02NB	NC					
	PM12-02P	NO	PNP				
	PM12-02PB	NC					
20.0 ALO 20.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	PM12-04N	NO	NPN	10 ~ 30 VDC	4.0mm	2.5KHZ	Non- Flushed
	PM12-04NB	NC					
	PM12-04P	NO	PNP				
	PM12-04PB	NC					
20.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	PM12-02S	NO	SCR	90 ~ 250 VAC	2.0mm	20HZ	Flushed
	PM12-02SB	NC					
M12 × 1,0	PM12-04S	NO	aan	90 ~ 250		20HZ	Non- Flushed
17.0 5.0 42.0 10.0	PM12-04SB	NC	SCR	VAC	4.0mm		

INDUCTIVE PROXIMITY SENSOR



M18 Tubular Type

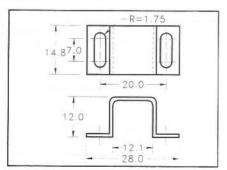
Outline Dimension	Model	Output	Output Method	Operating Voltage	Sensing Direction	Response	Mounting Method
ПП M18 X 1.0	PM18-05N-S	NO	Mediod	Voltage	Direction	Frequency	Method
29.0 LED 27.0 10.0 27.0 37.0 10.0	PM18-05NB-S	NC	NPN	10 ~ 30 VDC	5.0mm	800HZ	Flushed
	PM18-05P-S	NO	PNP				
	PM18-05PB-S	NC					
29.0 M18 X 1.0 LEO 29.0 10.0 2.0 43.0	PM18-08N-S	NO	NPN	10~30 VDC	8.0mm	800HZ	Non- Flushed
	PM18-08NB-S	NC					
	PM18-08P-S	NO					
	PM18-08PB-S	NC	PNP				
M18 X 1.0 LED 40.0 10.0	PM18-05N	NO	NPN	10 ~ 30 VDC	5.0mm	800HZ	Flushed
	PM18-05NB	NC					
	PM18-05P	NO					
	PM18-05PB	NC	PNP				
24.0 6.0 40.0 10.0 56.0	PM18-08N	NO	NPN	10 ~ 30 VDC	8.0mm	800HZ	Non- Flushed
	PM18-08NB	NC					
	PM18-08P	NO	PNP				
	PM18-08PB	NC					
Polymid Housing M18 X 1.0 LED AB.O. 71.0	PM18-08N-P	NO	NPN	10 ~ 30 VDC	8.0mm	800HZ	Non- Flushed
	PM18-08NB-P	NC					
	PM18-08P-P	NO	PNP	10 ~ 30 VDC	8.0mm	800HZ	Non- Flushed
	PM18-08PB-P	NC					
	PM18-08S-P	NO	SCR	90 ~ 250 VAC	8.0mm	20HZ	Non- Flushed
	PM18-08SB-P	NC					
M18 X 1.0 LED	PM18-05S	NO	- SCR	90 ~ 250 VAC	5.0mm	20HZ	Flushed
	PM18-05SB	NC					
24.0 6.0 40.0 10.0 56.0	PM18-08S	NO	- SCR	90 ~ 250 VAC	8.0mm	20HZ	Non- Flushed
	PM18-08SB	NC					

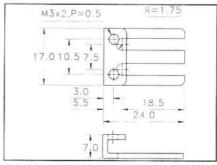


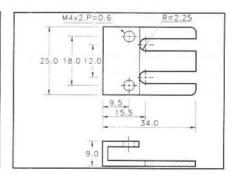
M30 Tubular Type

Outline Dimension	Model	Output Status	Output Method	Operating Voltage	Sensing Direction	Response Frequency	Mounting Method
41.5 LED 41.5 LED 35.0 10.0 3.0	PM30-10N-S	NO	NPN	10 ~ 30 VDC	10.0mm	500HZ	Flushed
	PM30-10NB-S	NC					
	PM30-10P-S	NO	PNP				
	PM30-10PB-S	NC					
41.5 LED 10.0 25.0 10.0 3.0 45.0	PM30-15N-S	NO	NPN	10 ~ 30 VDC	15.0mm	500HZ	Non- Flushed
	PM30-15NB-S	NC					
	PM30-15P-S	NO	PNP				
	PM30-15PB-S	NC	PNP				
41.5 36.0 40.0 50.0 10.0 3.0	PM30-10N	NO	NPN	10 ~ 30 VDC	10.0mm	500HZ	Flushed
	PM30-10NB	NC					
	PM30-10P	NO	PNP				
	PM30-10PB	NC					
41.5 40.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	PM30-15N	NO	NPN	10 ~ 30 VDC	15.0mm	500HZ	Non- Flushed
	PM30-15NB	NC					
	PM30-15P	NO	PNP				
	PM30-15PB	NC					
41.3 41.5 LEO 40.0 10.0 3.0	PM30-10S	NO	- SCR	90 ~ 250 VAC	10.0mm	20HZ	Flushed
	PM30-10SB	NO					
A1.5 40.0 10.0 5.0 60.0	PM30-15S	NO	SCR	90 ~250 VAC	15.0mm	20HZ	Non- Flushed
	PM30-15SB	NO					

Fixed Bracket



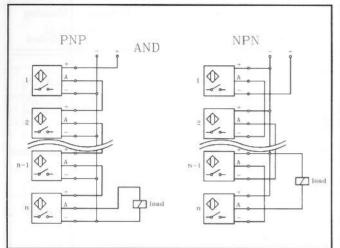


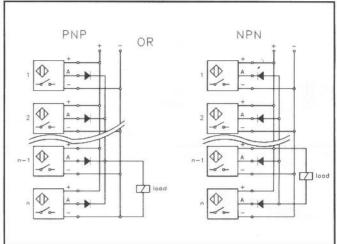


INDUCTIVE PROXIMITY SENSOR



Connecting Method of AND & OR





Basic Definition of Inductive Proximity Sensor

Target

Which is steel, 1 mm thick ness, square form with width lengths equal to the diameter of the sensing surface, if the target is made of a different material, the sensing distance must be multiplied by the Correction Factors.

Accuracy < Repetition >

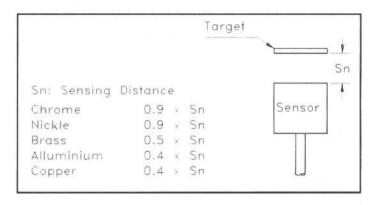
Tolerance of operating position that sensor is certainly operated under the same conditions .

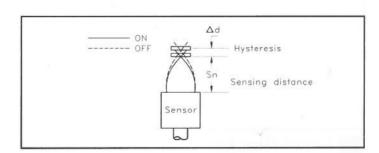
Hysteresis

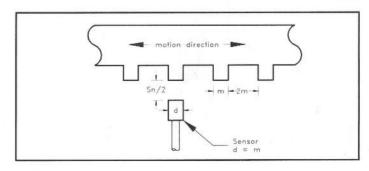
Hysteresis is the different distance between the operating points that the target is approaching and leaving the sensing area of the sensor, The value is expressed as a percentage of the sensing distance, $< \triangle \text{ d/Sn\%} >$.

Switch frequency

This is the maximum response frequency per second, based on a pulse / pause ratio of 1:2. The sketch shows the condition of test.







How To Install Induction Proximity Sensor

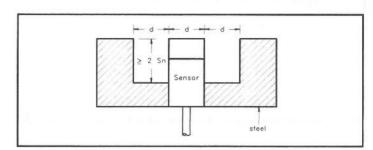
Flushed type

A proximity sensor can be flushed mounted in metal and surrounded by metal up to the level of the active face.

Sensor Sensor d: diameter Sn: sensing distance

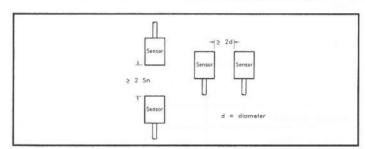
Non-flushed

A proximity sensor cannot be flushed in metal, a clear zone of 3 time of the diameter of the sensing surface must be keeped.



Mutual Interference

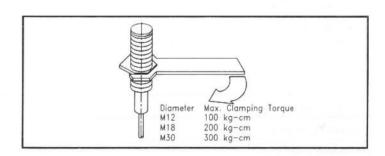
Installing inductive proximity sensors of the same model face to face or side by side, please set the minimum distance between the sensors larger than the diameter of sensor, to avoid the malfunction.



Clampling torque

Be sure to set a spring washer when fixing the sensor

Don't tighten the sensor's mounting screw of PM series, with a clamping torque higher the right values.



Wiring

To avoid being influenced by noised . Try best to separate the cable of the sensor from power lines and high

If extend the sensor cable, use a cable which diameter as same as that.