1000

► SPECIFICATIONS

PQ-W-813

PQ-W

WELD IMMUNE **PROXIMITY SENSOR**



INSTRUCTION SHEET

Thank you for selecting INNO for your requirement.

This sheet describes the procedure and precautions required for installing and operating the product.

Kindly read this sheet before operating or installing the product. Store the sheet for future reference.

CAUTION FOR SAFETY

(i) Please keep this sheet for review before use of unit.

Please observe the following:

Serious injury may occur if instructions are not followed

 \triangle CAUTION Product failure or injury can occur if instructions are not followed

A WARNING

1. This is not a safety product and is not to be used with machinery that requires use of safety control.

2. Do not disassemble or modify this unit. It may lead to electric shock/ fire.

Do not connect sensor to AC power supply. A **RISK OF EXPLOSION !**

\triangle caution

1. This unit shall not be used outdoors. 2. Do not use this unit in places where there is flammable or explosive

gas.

3. Please observe the rated specifications in Instruction Sheet. 4. Do not use this unit beyond rated power and do not supply AC power at DC power type.

5. Please check the polarity of power and wrong wiring.

6. Do not use this unit in places where there is vibration or impact. 7. Do not use water or oil based detergent for cleaning the unit.

8. Do not use excessive force to tighten the unit to the mounting

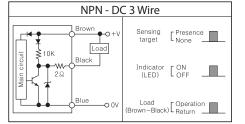
plate and do not hammer the unit.

9. Please process it as industrial waste and dispose responsibily.

For more information	visit www.inno.sg
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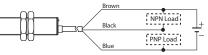
			*For details on Custo	mized/ Special Models contact Sel		
Size		M8	M12	M18		
	NPN - NO	PQ-W-M8F-1NO	PQ-W-M12F-2NO	PQ-W-M18F-5NO		
*Model	PNP - NO	PQ-W-M8F-1PO	PQ-W-M12F-2PO	PQ-W-M18F-5PO PQ-W-M18F-5AO		
model	AC 2 Wire - NO	PQ-W-M8F-1AO	PQ-W-M12F-2AO			
	AC 2 Wire - NC	PQ-W-M8F-1AC	PQ-W-M12F-2AC	PQ-W-M18F-5AC		
Sensing Distan	ce	1mm	2mm	5mm		
Standard Sensing Target		Iron, Ø12x2mm	Iron, Ø16x2mm	Iron, Ø22x2mm		
Hysterisis		± 10%				
Response Frequency/ Time		2000 Hz/ 0.1ms (AC: 25 Hz) 1000 Hz/ 0.2ms (
Supply Voltage		10-30VDC (ripple included)				
Current Consumption		< 10mA				
Connection		2 meter Pre-wired and M12 Jn. Connector types				
	Туре	NPN/ PNP - NO or AC 2 Wire - NO/ NC depending on the model				
0	Switching Capacity	200mA; overload trip: 220mA (AC: 300mA)				
Output	Leakage Current	<0.01mA (AC: <2.5mA)				
	Voltage Drop	< 1.5VDC (AC: 9VAC)				
Protection Circuits		DC Type Only: Reverse power supply polarity; short circuit and overload protection				
Dielectric Strength		1000 VAC, 50/ 60 Hz for 1 minute between current carrying parts and case				
Voltage Influence		\pm 5% max. of sensing distance (ref. sensing distance taken at 24VDC)				
Temperature Influence		\pm 10% max. of sensing distance (ref. sensing distance taken at 25°C)				
Vibration Resistance		10 - 55Hz, 1mm for 2 hours in X, Y, Z directions (destruction)				
Shock Resistance		50 G (10 times) in X, Y, Z direction for 3 times (destruction)				
Ambient Temperature		Operation: -25° ~ 70° C; Storage: -30° ~ 80° C (non-freezing; non-condensing)				
Ambient Humidity		Operation: 40 ~ 85% RH; Storage: 35 ~ 95% RH (non- condensing)				
Protection Class		IP - 67				
Weight	Prewired	approx. 40g	approx. 60g	approx. 130g		
weight	Junction Connector	approx. 55g	approx. 75g	approx. 145g		
Cable		2M, 2.9Ø 3*0.15	2M, 4Ø 3*0.25	2M, 5Ø 3*0.34		
Material		Head: PTFE; Tube: Stainless Steel; Nuts: Chrome plated MS				
Tightening Torque		10 N.m (max.)	15 N.m (max.)	40 N.m (max.)		

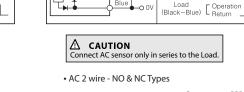
CONTROL OUTPUT DIAGRAM



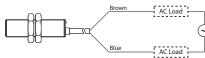
CONNECTION DIAGRAM

• DC 3 wire - NPN & PNP Types





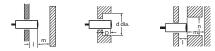
Blue



MOUNTING AND ADJUSTMENTS

Mounting metal influence

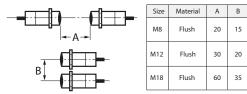
When the proximity sensor is embedded in metal, make sure that the clearances given below are maintained.



Size	Material	1	d	D	m	n
M8	Flush	0	-	0	4.5	12
M12	Flush	0	-	0	12	18
M18	Flush	0	27	1.5	24	27

Mutual Interference

When installing sensors face-to-face or side-by-side, ensure that a minimum distance as given in the table below is maintained.



Tightening Torque

Brown

AC

POWER

Do not tighten the nut with excessive force. Self washered nut, use of a washer is appreciated but not essential

AC 2 Wire

If an inductive load or load with a higher than 220mA current consumption is connected, it may

cause the load short- circuit protection curcuit to operate, resulting in operating errors.



N.O.

Sensing Presence target None

Load Coperation Return

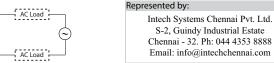
Indicator F ON

(LED) L OFF

N.C.

PNP - DC 3 Wire Brown Sensing C Presence -0+ target 20 Black Indicator ΓON (LED) L OFF Load

-0 0\

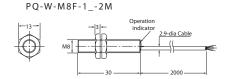


 \triangle caution

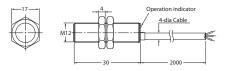
INNŮ
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Brown : DC 12~24V; Blue : GND; Black : Control Output



PQ-W-M12F-2_-2M



PQ-W-M12F-2_-M12J3

30

PQ-W-M8F-1_-M12J3

MR

0



Operation

indicate

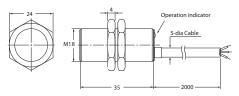
2.9-dia Cable

300

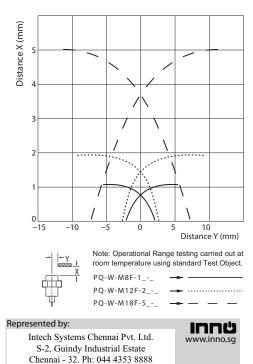
All units are in mm

M12 - Male

PQ-W-M18F-5_-2M

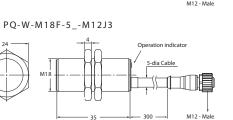


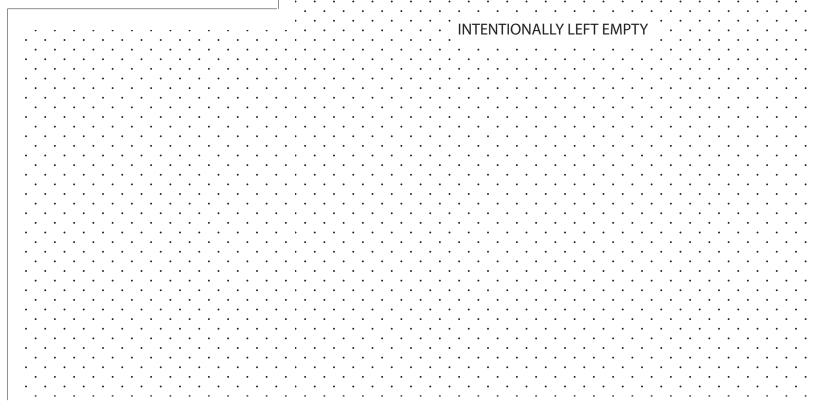
► OPERATIONAL RANGE



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