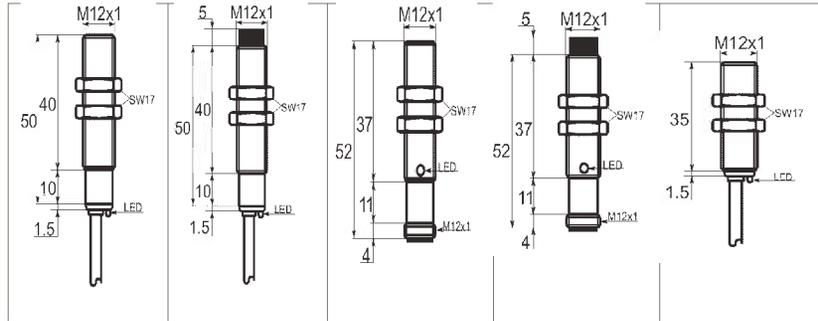


## Added Protection Series

These sensors have additional protection for working in environments where interference from noisy power supplies, solenoids, etc...



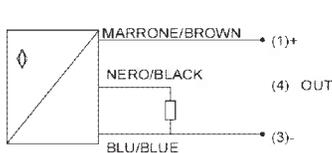
(Wiring Schematic)

3 Wire DC	PNP – Normally Open	(1)	IMM32122C.W	IMM35124C.W	IMM32122M12.W	IMM35124M12.W	IMC32124C.W
	PNP – Normally Closed	(1)	IMM33122C.W	IMM36124C.W	IMM33122M12.W	IMM36124M12.W	IMC33124C.W
	PNP – Selectable	(4)	-	-	-	-	-
	NPN – Normally Open	(2)	IMM22122C.W	IMM25124C.W	IMM22122M12.W	IMM25124M12.W	IMC22124C.W
	NPN – Normally Closed	(2)	IMM23122C.W	IMM26124C.W	IMM23122M12.W	IMM26124M12.W	IMC23124C.W
	NPN – Selectable	(5)	-	-	-	-	-
2 Wire DC	Normally Open	(6)					-
	Normally Closed	(6)					-
2 Wire AC	Normally Open	(7)	-	-	-	-	-
	Normally Closed	(7)	-	-	-	-	-

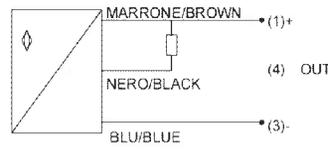
Mating cables / connectors

Form	M12 Shielded	M12 Non-Shielded	M12 Shielded	M12 Non-Shielded	M12 Shielded
Nominal Sensing Distance (Sn)	2mm	4mm	2mm	4mm	2mm
Housing Material	Nickel Plated Brass				
Termination Type	2.0 Meter Cable	2.0 Meter Cable	M12 Connector	M12 Connector	2.0 Meter Cable
Min / Max Supply Voltage	10 to 30Vdc				
Max. Load Current (I <sub>r</sub> )	200mA				
Max ripple factor (V <sub>r</sub> )	≤ 10%				
Voltage Drop (U <sub>d</sub> )	≤ 3V @ 200mA				
Power Consumption (I <sub>o</sub> )	≤ 10mA				
Switching Frequency (Hz)	1.5 kHz	1 kHz	1.5 kHz	1 kHz	1 kHz
Repeatability	< 2% nominal sensing distance				
Hysteresis	≤ 10% Sn				
Short Circuit Protection	Yes				
Output LED	Yes				
Operating Temperature	-25 to +70 C				
IP Rating	IP67 (with connector mounted)				

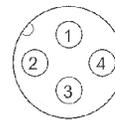
Wiring Diagram



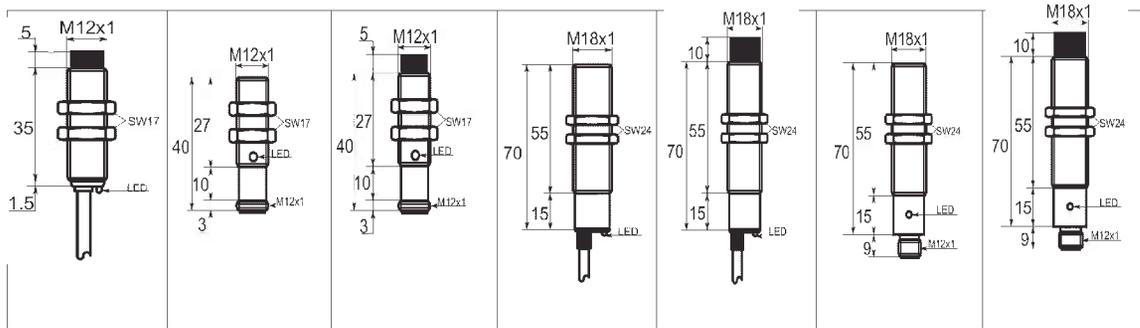
① PNP



② NPN



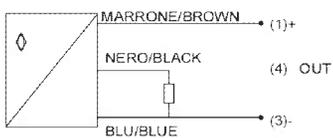
1 + MARRONE / BROWN  
4 OUT NERO / BLACK  
3 - BLU / BLUE



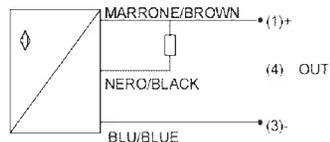
PNP – NO	IMC35124C.W	IMC32122M12.W	IMC35124M12.W	IMM32185C.W	IMM35188C.W	IMM32185M12.W	IMM35188M12.W
PNP – NC	IMC36124C.W	IMC33122M12.W	IMC36124M12.W	IMM33185C.W	IMM36188C.W	IMM33185M12.W	IMM36188M12.W
PNP – NO/NC	-	-	-	-	-	-	-
NPN – NO	IMC25124C.W	IMC22122M12.W	IMC25124M12.W	IMM22185C.W	IMM25188C.W	IMM22185M12.W	IMM25188M12.W
NPN – NC	IMC26124C.W	IMC23122M12.W	IMC26124M12.W	IMM23185C.W	IMM26188C.W	IMM23185M12.W	IMM26188M12.W
NPN – NO/NC	-	-	-	-	-	-	-
2W DC NO	-	-	-	-	-	-	-
2W DC NC	-	-	-	-	-	-	-
2W AC NO	-	-	-	-	-	-	-
2W AC NC	-	-	-	-	-	-	-

Mates

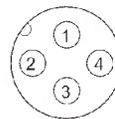
Form	M12 Non-Shielded	M12 Shielded	M12 Non-Shielded	M18 Shielded	M18 Non-Shielded	M18 Shielded	M18 Non-Shielded
Sn	4mm	2mm	4mm	5mm	8mm	5mm	8mm
Housing	Nickel Plated Brass						
Termination	2.0 Meter Cable	M12 Connector	M12 Connector	2.0 Meter Cable	2.0 Meter Cable	M12 Connector	M12 Connector
Supply Vdc	10 to 30Vdc						
Max Load	200mA						
Max ripple	≤ 10%						
Ud	≤ 3V @ 200mA						
Io	≤ 10mA						
Hz	1 kHz	1.5 kHz	1 kHz	1.2 kHz	1 kHz	1.2 kHz	1 kHz
Repeatability	< 2% nominal sensing distance						
Hysteresis	≤ 10% Sn						
Short Protection	Yes						
LED	Yes						
Op Temp	-25 to +70 C						
IP Rating	IP67 (with connector mounted)						



① PNP



② NPN



1 + MARRONE / BROWN  
 4 OUT NERO / BLACK  
 3 - BLU / BLUE

# Mouser Electronics

Authorized Distributor

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Crouzet:

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[IMM35124C](#) [IMM36124C](#)