imall

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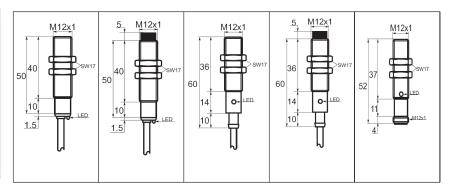
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





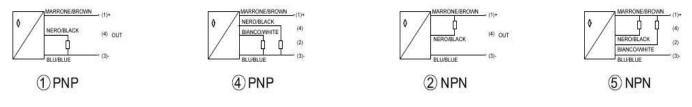
M12 Inductive Proximity Sensors

Standard Length "Mini's" Extended Sensing 3 Wire DC 2 Wire DC 2 Wire AC

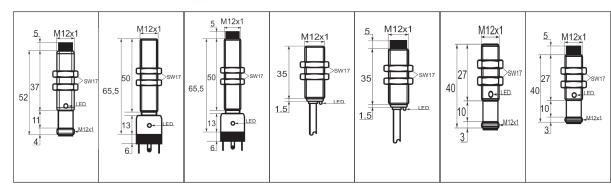


		(Wiring Schematic)		1					
3 Wire DC	PNP – Normally Open	(1)	IMM32122C	IMM35124C	IMN32122C	IMN35124C	IMN32122M12		
	PNP – Normally Closed	(1)	IMM33122C	IMM36124C	IMN33122C	IMN36124C	IMN33122M12		
	PNP – Selectable	(4)	IMM34122C	IMM37124C	IMN34122C	IMN37124C	IMN34122M12		
	NPN – Normally Open	(2)	IMM22122C	IMM25124C	IMN22122C	IMN25124C	IMN22122M12		
	NPN – Normally Closed	(2)	IMM23122C	IMM26124C	IMN23122C	IMN26124C	IMN23122M12		
	NPN – Selectable	(5)	IMM24122C	IMM27124C	IMN24122C	IMN27124C	IMN24122M12		
2 Wire DC	Normally Open		-	-	-	-	-		
	Normally Closed		-	-	-	-	-		
2 Wire AC	Normally Open		-	-	-	-	-		
	Normally Closed		-	-	-	-	-		
	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								
	Termination Type		2.0 Meter Cable	2.0 Meter Cable	2.0 Meter Cable	2.0 Meter Cable	M12 Connector		
	Min / Max Supply Voltage			10 to 30Vdc					
	Max. Load Current (Ir)		200mA						
	Max ripple factor (Vr)				$\leq 10\%$				
	Voltage Drop (Ud)		≤ 3V @ 200mA						
	Power Consumption (Io)				$\leq 10 \text{mA}$				
	Switching Frequency (Hz)		1.5kHz	1kHz	1.5kHz	1kHz	1.5kHz		
	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







PNP – NO	IMN35124M12	IMN32122P	IMN35124P	IMC32122C	IMC35124C	IMC32122M12	IMC35124M12			
PNP – NC	MN36124M12 IMN33122P IMN36124P IMC33122C IMC36124C IMC33122M12 IMC361									
PNP – NO/NC	IMN37124M12 IMN34122P IMN37124P IMC34122C IMC36124C IMC34122M12 IMC37124									
NPN – NO	IMN25124M12 IMN22122P IMN25124P IMC22122C IMC25124C IMC22122M12 IMC25124M									
NPN – NC	IMN26124M12	IMN23122P	IMN26124P	IMC23122C	IMC26124C	IMC23122M12	IMC26124M12			
NPN – NO/NC	IMN27124M12 IMN24122P IMN27124P IMC24122C IMC26124C IMC24122M12 IMC27124M1									
2W DC NO										
2W DC NC										
2W AC NO	· · · · · · · · ·									
2W AC NC	· · · · · · · · · ·									
Mates										
Form	M12 Non-Shielded M12 Shielded M12 Non-Shielded M12 Shielded M12 Non-Shielded M12 Non-Shielded M12 Non-Shielded									
Sn	4mm 2mm 4mm 2mm 4mm 2mm 4mm									
Housing	Nickel Plated Brass									
Termination	M12 Connector Sub-Base Plug Sub-Base Plug 2.0 Meter Cable 2.0 Meter Cable M12 Connector M12 Connector									
Supply Vdc	10 to 30Vdc									
Max Load		200mA								
Max ripple		$\leq 10\%$								
Ud				≤3V @ 200mA						
lo		≤ 10 mA								
Hz	1kHz 1.5kHz 1kHz 1.5kHz 1kHz 1.5kHz 1kHz									
Repeatability			< 2%	nominal sensing dis	tance					
Hysteresis				≤ 10% Sn						
Short Protection				Yes						
LED				Yes						
Op Temp				-25 to +70 C						
IP Rating			IP67	(with connector mou	nted)					

MARRONE / BROWN 1+ 4 OUT NERO / BLACK

2

3 -BLU / BLUE

MARRONE / BROWN 1 + 1 1+ (4) 2 NC OUT BIANCOWHITE 3 -3 4 NO OUT NERO / BLACK

BLU / BLUE 3 -

MARRONE / BROWN 4 OUT NERO / BLACK BLU / BLUE

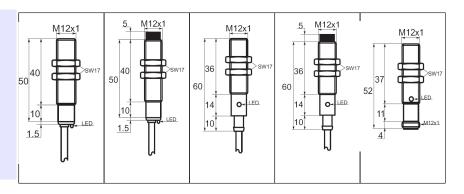


MARRONE / BROWN 1+ 2 NC OUT BIANCO/WHITE 3 -BLU / BLUE 4 NO OUT NERO / BLACK



M12 Inductive Proximity Sensors

Standard Length "Mini's" Extended Sensing 3 Wire DC 2 Wire DC 2 Wire AC

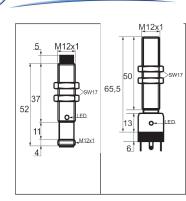


		(Wiring Schematic)							
3 Wire DC	PNP – Normally Open	(1)	IMM32124C	IMM35128C	IMN32124C	IMN35128C	IMN32124M12		
	PNP – Normally Closed	(1)	IMM33124C	IMM36128C	IMN33124C	IMN36128C	IMN33124M12		
	PNP – Selectable	(4)	-	-	-	-	-		
	NPN – Normally Open	(2)	IMM22124C	IMM25128C	IMN22124C	IMN25128C	IMN22124M12		
	NPN – Normally Closed	(2)	IMM23124C	IMM26128C	IMN23124C	IMN26128C	IMN23124M12		
	NPN – Selectable	(5)	-	-	-	-	-		
2 Wire DC	Normally Open		-	-	-	-	-		
	Normally Closed		-	-	-	-	-		
2 Wire AC	Normally Open		-	-	-	-	-		
	Normally Closed		-	-	-	-	-		
	Mating cables / connectors								
	Form		M12 Shielded	M12 Non-Shielded	M12 Shielded	M12 Non-Shielded	M12 Shielded		
	Nominal Sensing Distance (Sn)		4mm	8mm	4mm	8mm	4mm		
	Housing Material	Nickel Plated Brass							
	Termination Type		2.0 Meter Cable	2.0 Meter Cable	2.0 Meter Cable	2.0 Meter Cable	M12 Connector		
	Min / Max Supply Voltage			10 to 30Vdc					
	Max. Load Current (Ir)			200mA					
	Max ripple factor (Vr)	$\leq 10\%$							
	Voltage Drop (Ud)	\leq 3V @ 200mA							
	Power Consumption (Io)				$\leq 10 \text{mA}$				
	Switching Frequency (Hz)		1kHz	1kHz	1kHz	1kHz	1kHz		
	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)								

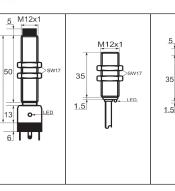
Wiring Diagram



M12x1



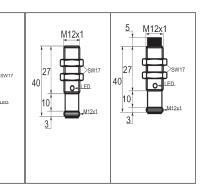
Crouzet



5

50

65,5



PNP - NC IMN36128M12 IMN33124P IMN36128P IMC33124C IMC36128C IMC33124M12 IMC36 PNP - NO/NC -	128M12 128M12 - 128M12 128M12 - - - -								
PNP - NO/NC - <th< td=""><td>- 128M12 128M12 - -</td></th<>	- 128M12 128M12 - -								
NPN - NO IMN25128M12 IMN22124P IMN25128P IMC22124C IMC25128C IMC22124M12 IMC25 NPN - NC IMN26128M12 IMN23124P IMN26128P IMC23124C IMC26128C IMC23124M12 IMC26 NPN - NO/NC -	128M12 - -								
NPN - NC IMN26128M12 IMN23124P IMN26128P IMC23124C IMC26128C IMC23124M12 IMC26 NPN - NO/NC -	128M12 - -								
NPN - NO/NC - <th< td=""><td>-</td></th<>	-								
2W DC NO -<									
2W DC NC	-								
	-								
2W AC NO	_								
2W AC NC	-								
Mates									
Form M12 Non-Shielded M12 Shielded M12 Non-Shielded M12 Shielded M12 Shielded M12 Non-Shielded M12 Shielded M12 Non-Shielded	n-Shielded								
Sn 8mm 4mm 8mm 4mm 8mm 4mm 8	mm								
Housing Nickel Plated Brass	Nickel Plated Brass								
Termination M12 Connector Sub-Base Plug Sub-Base Plug 2.0 Meter Cable 2.0 Meter Cable M12 Connector M12 C	onnector								
Supply Vdc 10 to 30Vdc									
Max Load 200mA									
Max ripple $\leq 10\%$									
Ud \leq 3V @ 200mA									
lo≤10mA									
Hz 1kHz 1kHz 1kHz 1kHz 1kHz 1kHz 1kHz 1k	кНz								
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)									

MARRONE / BROWN 1+ 4 OUT NERO / BLACK

2

3 -BLU / BLUE



BLU / BLUE 3 -

MARRONE / BROWN 4 OUT NERO / BLACK BLU / BLUE

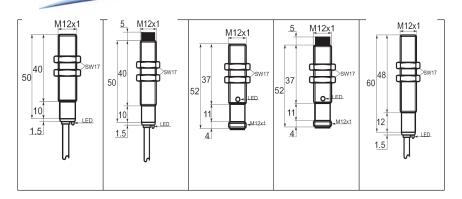


MARRONE / BROWN 1+ 2 NC OUT BIANCO/WHITE 3 -BLU / BLUE 4 NO OUT NERO / BLACK



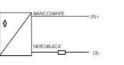
M12 Inductive Proximity Sensors

Standard Length "Mini's" Extended Sensing 3 Wire DC 2 Wire DC 2 Wire AC



		(Wiring Schematic)						
3 Wire DC	PNP – Normally Open	(1)	-	-	-	-	-	
	PNP – Normally Closed	(1)	-	-	-	-	-	
	PNP – Selectable	(4)	-	-	-	-	-	
	NPN – Normally Open	(2)	-	-	-	-	-	
	NPN – Normally Closed	(2)	-	-	-	-	-	
	NPN – Selectable	(5)	-	-	-	-	-	
2 Wire DC	Normally Open (6)		IMM42122C	IMM45124C	IMN42122M12	IMN45124M12	-	
	Normally Closed	(6)	IMM43122C	IMM46124C	IMN43122M12	IMN46124M12	-	
2 Wire AC	Normally Open	(7)	-	-	-	-	IMM62122C	
	Normally Closed	(7)	-	-	-	-	IMM63122C	
	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		20 to 220 Vac		
	Max. Load Current (Ir)			100mA		400 mA		
	Max ripple factor (Vr)			$\leq 10\%$		-		
	Voltage Drop (Ud)		\leq 4.5Vac					
	Power Consumption (Io)				\leq 0.7mA		\leq 2.5mA	
	Switching Frequency (Hz)		1kHz	800 Hz	1kHz	800 Hz	20 Hz	
	Repeatability	< 2% nominal sensing distance						
	Hysteresis	≤ 10% Sn						
	Short Circuit Protection		No					
	Output LED		Yes Yes					
	Operating Temperature	-25 to +70 C						
	IP Rating		IP67 (with connector mounted)					

Wiring Diagram





4 + NERO / BLACK 3 - BLU / BLUE

WARRONE/BROWN 0



5

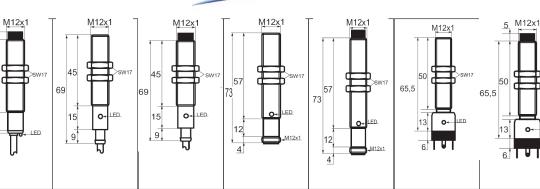
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12

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C

Inductive Proximity Sensors



	· · · · · ·									
PNP – NO	-	-	-	-	-	-	-			
PNP – NC	-	-	-	-	-	-	-			
PNP – NO/NC	-	-	-	-	-	-	-			
NPN – NO	-	-	-	-	-	-	-			
NPN – NC		-	-	-	-	-				
NPN – NO/NC	-	-	-	-	-	-	-			
2W DC NO	-	-	-	-	-	-	-			
2W DC NC	-	-	-	-	-	-	-			
2W AC NO	IMM65124C	IMN62122C	IMN65124C	IMN62122M12	IMN65124M12	IMN62122P	IMN65124F			
2W AC NC	IMM66124C	IMN63122C	IMN66124C	IMN63122M12	IMN66124M12	IMN63122P	IMN66124			
Mates										
Form	M12 Non-Shielded	M12 Shielded	M12 Non-Shielded	M12 Shielded	M12 Non-Shielded	M12 Shielded	M12 Non-Shiel			
Sn	4mm	2mm	4mm	2mm	4mm	2mm	4mm			
Housing	Nickel Plated Brass									
Termination	2.0 Meter Cable	2.0 Meter Cable	2.0 Meter Cable	M12 Connector	M12 Connector	Sub-Base Plug	Sub-Base Plu			
Supply Vdc		20 to 220Vac								
Max Load		400mA								
Max ripple				-						
Ud				\leq 4.5Vac						
lo				\leq 2.5mA						
Hz	20 Hz	20 Hz	20 Hz	20 Hz	20 Hz	20 Hz	20 Hz			
Repeatability			< 2%	nominal sensing dis	tance					
Hysteresis				≤ 10% Sn						
Short Protection				No						
LED				Yes						
Op Temp				-25 to +70 C						
IP Rating	IP67 (with connector mounted)									





MARRONE / BROWN 1~ 2/3 ~ BLU / BLUE



1~

MARRONE / BROWN 2/3 ~ BLU / BLUE