
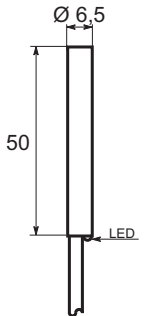
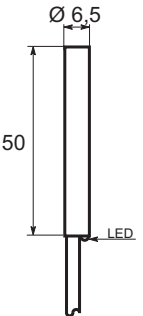
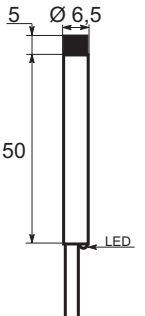
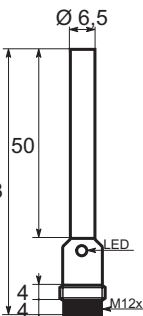
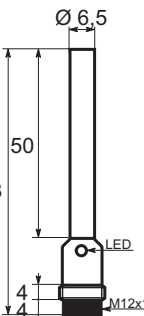
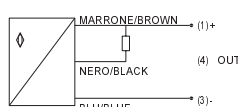


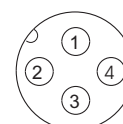
Diametri 6,5-8-12-18-30 mm con alimentazione 5 ÷ 12 Vdc

TIPI - TYPES	Ø 6,5	Ø 6,5	Ø 6,5	Ø 6,5	Ø 6,5
 CARATTERISTICHE FEATURES					
Schermato - <i>Shielded</i>	●	●	●	●	●
Non schermato - <i>Unshielded</i>			●		
Portata nominale - <i>Nominal sensing distance</i>	1 mm	1,5 mm	2 mm	1 mm	1,5 mm
Tensione di alimentazione - <i>Supply voltage</i>	5 ÷ 12 Vdc				
Ondulazione residua - <i>Ripple</i>	≤ 10%				
Corrente massima di carico - <i>Maximum load current</i>	200 mA				
Caduta di tensione - <i>Voltage drop</i>	≤ 1,5 V @ 200 mA				
Assorbimento - <i>Power consumption</i>	≤ 15 mA @ 12 V				
Ripetibilità - <i>Repeatability</i>	< 2% della portata nominale - <i>nominal sensing distance</i>				
Isteresi - <i>Hysteresis</i>	≤ 10% Sn				
Frequenza di commutazione - <i>Switching frequency</i>	5 kHz	5 kHz	5 kHz	5 kHz	5 kHz
Protezione al corto circuito - <i>Short circuit protection</i>	No				
Led di segnalazione - <i>Status output led</i>	Sì - Yes				
Temperatura di funzionamento - <i>Working temperature</i>	-25 ÷ +70 °C				
Grado di protezione - <i>IP rating</i>	IP67 (con connettore montato - <i>with connector mounted</i>)				
Custodia - <i>Housing</i>	Ottone nichelato - <i>Nickel plated brass</i>				
Connessione - <i>Connection</i>	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Connettore M12 M12 connector	Connettore M12 M12 connector
Collegamento - <i>Linking</i>	3 X 0,14 mm ²	3 X 0,14 mm ²	3 X 0,14 mm ²	C5-C6-C7-L7	C5-C6-C7-L7
NPN-NO	(2)	B11G6,51NO	B11G6,51,5NO	B11EG6,52NO	B116,51NOC5 B116,51,5NOC5

SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



② NPN

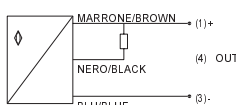


1 + MARRONE / BROWN
 4 OUT NERO / BLACK
 3 - BLU / BLUE

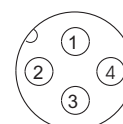
6.5-8-12-18-30 mm diameter with 5 ÷ 12 Vdc supply voltage

Ø 6,5	Ø 8	Ø 8	Ø 8	Ø 8	Ø 8	Ø 8
68	40	40	40	50	50	50
50						
5			5			5
Ø 6,5	M8x1	M8x1	M8x1	M8x1	M8x1	M8x1
	SW13	SW13	SW13	SW13	SW13	SW13
LED	LED	LED	LED	LED	LED	LED
M12x1				M12x1	M12x1	M12x1
2 mm	1 mm	1,5 mm	2 mm	1 mm	1,5 mm	2 mm
5 ÷ 12 Vdc						
≤ 10%						
200 mA						
≤ 1,5 V @ 200 mA						
≤ 15 mA @ 12 V						
< 2% della portata nominale - nominal sensing distance						
≤ 10% Sn						
5 kHz	5 kHz	5 kHz	2 kHz	3 kHz	3 kHz	2 kHz
No						
Si - Yes						
-25 ÷ +70 °C						
IP67 (con connettore montato - with connector mounted)						
Ottone nichelato - Nickel plated brass						
Connettore M12 M12 connector	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Connettore M12 M12 connector	Connettore M12 M12 connector	Connettore M12 M12 connector
C5-C6-C7-L7	3 X 0,14 mm ²	3 X 0,14 mm ²	3 X 0,14 mm ²	C5-C6-C7-L7	C5-C6-C7-L7	C5-C6-C7-L7
B11E6,52NOC5	B11G81PO	B11G81,5NO	B11EG82NO	B1181NOC5	B1181,5NOC5	B11E82NOC5

SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS

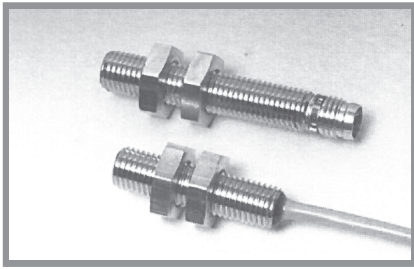


② NPN


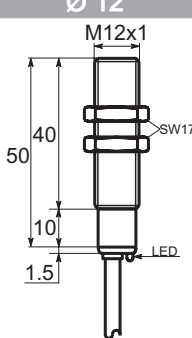
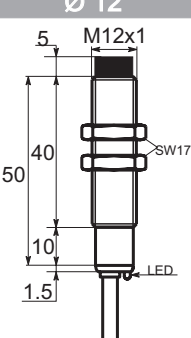
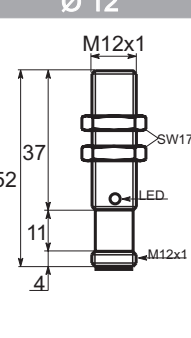
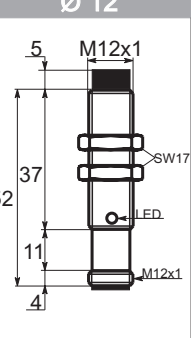
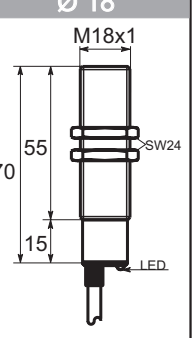


1 + MARRONE / BROWN
4 OUT NERO / BLACK
3 - BLU / BLUE

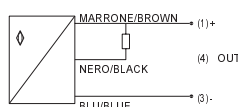
C5-C6-C7-L7 CC/DC



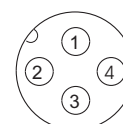
Diametri 6,5-8-12-18-30 mm con alimentazione 5 ÷ 12 Vdc

TIPI - TYPES	Ø 12		Ø 12		Ø 18
 CARATTERISTICHE FEATURES					
Schermato - <i>Shielded</i>	●		●		●
Non schermato - <i>Unshielded</i>		●		●	
Portata nominale - <i>Nominal sensing distance</i>	2 mm	4 mm	2 mm	4 mm	5 mm
Tensione di alimentazione - <i>Supply voltage</i>	5 ÷ 12 Vdc				
Ondulazione residua - <i>Ripple</i>	≤ 10%				
Corrente massima di carico - <i>Maximum load current</i>	200 mA				
Caduta di tensione - <i>Voltage drop</i>	≤ 1,5 V @ 200 mA				
Assorbimento - <i>Power consumption</i>	≤ 15 mA @ 12 V				
Ripetibilità - <i>Repeatability</i>	< 2% della portata nominale - <i>nominal sensing distance</i>				
Isteresi - <i>Hysteresis</i>	≤ 10% Sn				
Frequenza di commutazione - <i>Switching frequency</i>	1,5 kHz	1 kHz	1,5 kHz	1 kHz	700 Hz
Protezione al corto circuito - <i>Short circuit protection</i>	No				
Led di segnalazione - <i>Status output led</i>	Sì - Yes				
Temperatura di funzionamento - <i>Working temperature</i>	-25 ÷ +70 °C				
Grado di protezione - <i>IP rating</i>	IP67 (con connettore montato - <i>with connector mounted</i>)				
Custodia - <i>Housing</i>	Ottone nichelato - <i>Nickel plated brass</i>				
Connessione - <i>Connection</i>	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Connettore M12 M12 connector	Connettore M12 M12 connector	Cavo 2 m 2 m cable
Collegamento - <i>Linking</i>	3 X 0,14 mm ²	3 X 0,14 mm ²	C5-C6-C7-L7	C5-C6-C7-L7	3 X 0,35 mm ²
NPN-NO	(2)	B11G122NO	B11EG124NO	B11122NOC5	B11E124NOC5

SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



② NPN

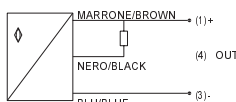


1 + MARRONE / BROWN
 4 OUT NERO / BLACK
 3 - BLU / BLUE

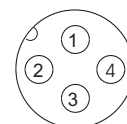
6.5-8-12-18-30 mm diameter with 5 ÷ 12 Vdc supply voltage

Ø 18		Ø 18		Ø 18		Ø 30		Ø 30		Ø 30		Ø 30	
●	●	●	●	●	●	●	●	●	●	●	●	●	●
8 mm	5 mm	8 mm	10 mm	15 mm	10 mm	15 mm							
5 ÷ 12 Vdc													
≤ 10%													
200 mA													
≤ 1,5 V @ 200 mA													
≤ 15 mA @ 12 V													
< 2% della portata nominale - <i>nominal sensing distance</i>													
≤ 10% Sn													
400 Hz	700 Hz	400 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz
No													
Sì - Yes													
-25 ÷ +70 °C													
IP67 (con connettore montato - <i>with connector mounted</i>)													
Ottone nichelato - <i>Nickel plated brass</i>													
Cavo 2 m 2 m cable	Connettore M12 M12 connector	Connettore M12 M12 connector	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Connettore M12 M12 connector	Connettore M12 M12 connector	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Connettore M12 M12 connector	Connettore M12 M12 connector	Connettore M12 M12 connector	Connettore M12 M12 connector	Connettore M12 M12 connector
3 X 0,35 mm ²	C5-C6-C7-L7	C5-C6-C7-L7	3 X 0,35 mm ²	3 X 0,35 mm ²	C5-C6-C7-L7	C5-C6-C7-L7	3 X 0,35 mm ²	3 X 0,35 mm ²	C5-C6-C7-L7	C5-C6-C7-L7	C5-C6-C7-L7	C5-C6-C7-L7	C5-C6-C7-L7
B11EG188NO	B11185NOC5	B11E188NOC5	B11G3010NO	B11EG3015NO	B113010NOC5	B11E3015NOC5							

SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



② NPN



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

C5-C6-C7-L7 CC/DC