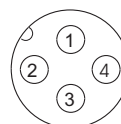
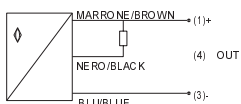
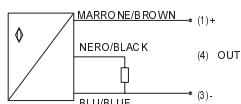


La serie di sensori con elevata protezione è particolarmente indicata in applicazioni ove siano presenti elevati disturbi in linea provenienti da inverter, elettrovalvole, teleruttori non sufficientemente filtranti.

TIPI - TYPES	Ø 6,5 STANDARD CENELEC - CENELEC STANDARD					
Elevata protezione High protection series						
	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>	10 ÷ 30 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>	≤ 3 V @ 200 mA					
Assorbimento - <i>Power consumption</i>	≤ 10 mA					
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	1,5 kHz	1 kHz	1,5 kHz	1,5 kHz	
Protezione al corto circuito - <i>Short circuit protection</i>	Sì - Yes					
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	
PNP-NO	(1)	B06G6,51PO	B06G6,51,5PO	B06EG6,52PO	B066,51POC5	B066,51,5POC5
PNP-NC	(1)	B06G6,51PC	B06G6,51,5PC	B06EG6,52PC	B066,51PCC5	B066,51,5PCC5
NPN-NO	(2)	B06G6,51NO	B06G6,51,5NO	B06EG6,52NO	B066,51NOC5	B066,51,5NOC5
NPN-NC	(2)	B06G6,51NC	B06G6,51,5NC	B06EG6,52NC	B066,51NCC5	B066,51,5NCC5

SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



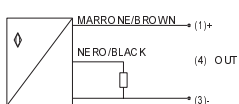
1 + MARRONE / BROWN
 4 OUT NERO / BLACK
 3 - BLU / BLUE



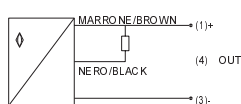
These high protection sensors are suitable for working in environment with a high level of interference due to badly filtered inverters solenoids and actuators.

Ø 6,5 CORTI - SHORTY						
●	●	●	●	●	●	●
2 mm	1 mm	1,5 mm	2 mm	1 mm	1,5 mm	2 mm
10 ÷ 30 Vdc						
≤ 10%						
200 mA						
≤ 3 V @ 200 mA						
≤ 10 mA						
< 2% della portata nominale - nominal sensing distance						
≤ 10% Sn			≤ 10% Sn			
1 kHz	1,5 kHz	1,5 kHz	1 kHz	1,5 kHz	1,5 kHz	1 kHz
Sì - Yes						
Sì - 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
B06E6,52POC5	B07G6,51PO	B07G6,51,5PO	B07EG6,52PO	B076,51POC5	B076,51,5POC5	B07E6,52POC5
B06E6,52PCC5	B07G6,51PC	B07G6,51,5PC	B07EG6,52PC	B076,51PCC5	B076,51,5PCC5	B07E6,52PCC5
B06E6,52NOC5	B07G6,51NO	B07G6,51,5NO	B07EG6,52NO	B076,51NOC5	B076,51,5NOC5	B07E6,52NOC5
B06E6,52NCC5	B07G6,51NC	B07G6,51,5NC	B07EG6,52NC	B076,51NCC5	B076,51,5NCC5	B07E6,52NCC5

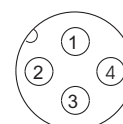
SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



① PNP

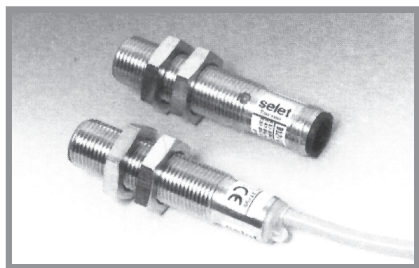


② NPN



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

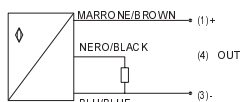
C5-C6-C7-L7 CC/DC



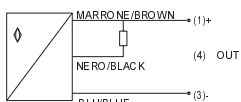
La serie di sensori con elevata protezione è particolarmente indicata in applicazioni ove siano presenti elevati disturbi in linea provenienti da inverter, elettrovalvole, teleruttori non sufficientemente filtranti.

TIPI - TYPES	Ø 8 STANDARD CENELEC - CENELEC STANDARD					
Elevata protezione High protection series						
	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>	10..30 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>	≤ 3 V @ 200 mA					
Assorbimento - <i>Power consumption</i>	≤ 10 mA					
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	1,5 kHz	1 kHz	1,5 kHz	1,5 kHz	
Protezione al corto circuito - <i>Short circuit protection</i>	Sì - Yes					
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	
PNP-NO	(1)	B06G81PO	B06G81,5PO	B06EG82PO	B0681POC5	B0681,5POC5
PNP-NC	(1)	B06G81PC	B06G81,5PC	B06EG82PC	B0681PCC5	B0681,5PCC5
NPN-NO	(2)	B06G81NO	B06G81,5NO	B06EG82NO	B0681NOC5	B0681,5NOC5
NPN-NC	(2)	B06G81NC	B06G81,5NC	B06EG82NC	B0681NCC5	B0681,5NCC5

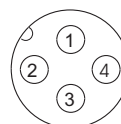
SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



① PNP



② NPN



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

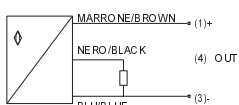
C5-C6-C7-L7 CC/DC



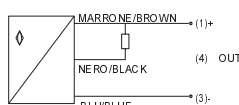
These high protection sensors are suitable for working in environment with a high level of interference due to badly filtered inverters solenoids and actuators.

Ø 8 CORTI - SHORTY						
●	●	●	●	●	●	●
2 mm	1 mm	1,5 mm	2 mm	1 mm	1,5 mm	2 mm
10 ÷ 30 Vdc						
≤ 10%						
200 mA						
≤ 3 V @ 200 mA						
≤ 10 mA						
< 2% della portata nominale - nominal sensing distance						
≤ 10% Sn						
1 kHz	1,5 kHz	1,5 kHz	1 kHz	1,5 kHz	1,5 kHz	1 kHz
Si - Yes						
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
B06E82POC5	B07G81PO	B07G81,5PO	B07EG82PO	B0781POC5	B0781,5POC5	B07E82POC5
B06E82PCC5	B07G81PC	B07G81,5PC	B07EG82PC	B0781PCC5	B0781,5PCC5	B07E82PCC5
B06E82NOC5	B07G81NO	B07G81,5NO	B07EG82NO	B0781NOC5	B0781,5NOC5	B07E82NOC5
B06E82NCC5	B07G81NC	B07G81,5NC	B07EG82NC	B0781NCC5	B0781,5NCC5	B07E82NCC5

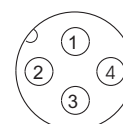
SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



① PNP

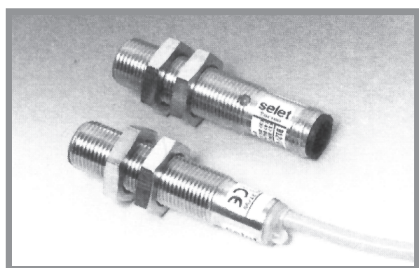


② NPN



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

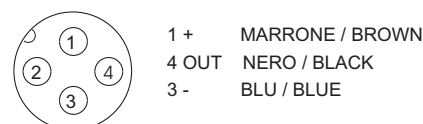
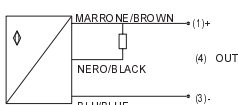
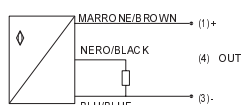
C5-C6-C7-L7 CC/DC



La serie di sensori con elevata protezione è particolarmente indicata in applicazioni ove siano presenti elevati disturbi in linea provenienti da inverter, elettrovalvole, teleruttori non sufficientemente filtranti.

TIPI - TYPES	Ø 12 STANDARD CENELEC - CENELEC STANDARD				Ø 12 CORTI	
<p>Elevata protezione High protection series</p> <p>CARATTERISTICHE FEATURES</p>						
	●	●	●	●	●	
Schermato - <i>Shielded</i>						
Non schermato - <i>Unshielded</i>						
Portata nominale - <i>Nominal sensing distance</i>	2 mm	4 mm	2 mm	4 mm	2 mm	
Tensione di alimentazione - <i>Supply voltage</i>	10..30 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>	≤ 3 V @ 200 mA					
Assorbimento - <i>Power consumption</i>	≤ 10 mA					
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	1,5 kHz	
Protezione al corto circuito - <i>Short circuit protection</i>	Sì - Yes					
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 0,14 mm ²	
PNP-NO	(1)	B06G122PO	B06EG124PO	B06122POC5	B06E124POC5	B07G122PO
PNP-NC	(1)	B06G122PC	B06EG124PC	B06122PCC5	B06E124PCC5	B07G122PC
NPN-NO	(2)	B06G122NO	B06EG124NO	B06122NOC5	B06E124NOC5	B07G122NO
NPN-NC	(2)	B06G122NC	B06EG124NC	B06122NCC5	B06E124NCC5	B07G122NC

SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS

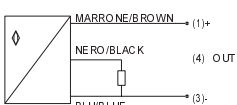




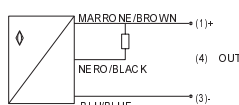
These high protection sensors are suitable for working in environment with a high level of interference due to badly filtered inverters solenoids and actuators.

Ø 12 CORTI - SHORTY			Ø 18 STANDARD CENELEC - CENELEC STANDARD			
●	●	●	●	●	●	●
4 mm	2 mm	4 mm	5 mm	8 mm	5 mm	8 mm
10 ÷ 30 Vdc			10 ÷ 30 Vdc			
≤ 10%			≤ 10%			
200 mA			200 mA			
≤ 3 V @ 200 mA			≤ 3 V @ 200 mA			
≤ 10 mA			≤ 10 mA			
< 2% della portata nominale - nominal sensing distance						
≤ 10% Sn			≤ 10% Sn			
1 kHz	1,5 kHz	1 kHz	1,2 kHz	1 kHz	1,2 kHz	1 kHz
Sì - Yes			Sì - Yes			
Sì - Yes			Sì - Yes			
-25 ÷ +70 °C			-25 ÷ +70 °C			
IP67 (con connettore montato - with connector mounted)						
Ottone nichelato - Nickel plated brass						
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
3 X 0,14 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
B07EG124PO	B07122POC5	B07E124POC5	B06G185PO	B06EG188PO	B06185POC5	B06E188POC5
B07EG124PC	B07122PCC5	B07E124PCC5	B06G185PC	B06EG188PC	B06185PCC5	B06E188PCC5
B07EG124NO	B07122NOC5	B07E124NOC5	B06G185NO	B06EG188NO	B06185NOC5	B06E188NOC5
B07EG124NC	B07122NCC5	B07E124NCC5	B06G185NC	B06EG188NC	B06185NCC5	B06E188NCC5

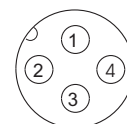
SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



① PNP

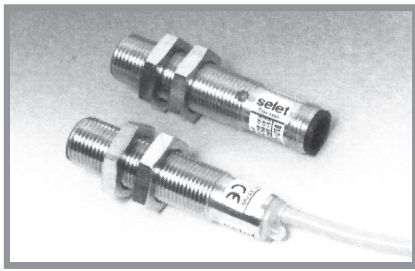


② NPN



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

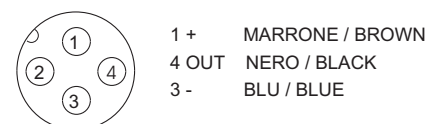
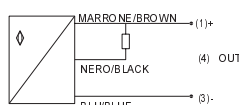
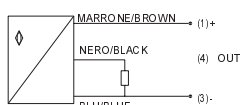
C5-C6-C7-L7 CC/DC



La serie di sensori con elevata protezione è particolarmente indicata in applicazioni ove siano presenti elevati disturbi in linea provenienti da inverter, elettrovalvole, teleruttori non sufficientemente filtranti.

TIPI - TYPES	Ø 18 Ø 18 Ø 18 Ø 18				Ø 30	
Elevata protezione High protection series						
	CARATTERISTICHE FEATURES					
Schermato - <i>Shielded</i>	●		●		●	
Non schermato - <i>Unshielded</i>		●		●		
Portata nominale - <i>Nominal sensing distance</i>	5 mm	8 mm	5 mm	8 mm	10 mm	
Tensione di alimentazione - <i>Supply voltage</i>	10..30 Vdc				10..30 Vdc	
Ondulazione residua - <i>Ripple</i>	≤ 10%				≤ 10%	
Corrente massima di carico - <i>Maximum load current</i>	200 mA				200 mA	
Caduta di tensione - <i>Voltage drop</i>	≤ 3 V @ 200 mA				≤ 3 V @ 200 mA	
Assorbimento - <i>Power consumption</i>	≤ 10 mA				≤ 10 mA	
Ripetibilità - <i>Repeatability</i>	< 2% della portata nominale - <i>nominal sensing distance</i>					
Isteresi - <i>Hysteresis</i>	≤ 10% Sn				≤ 10% Sn	
Frequenza di commutazione - <i>Switching frequency</i>	1,2 kHz	1 kHz	1,2 kHz	1 kHz	200 Hz	
Protezione al corto circuito - <i>Short circuit protection</i>	Sì - Yes				Sì - Yes	
Led di segnalazione - <i>Status output led</i>	Sì - Yes				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 0,35 mm ²	3 X 0,35 mm ²	C5-C6-C7-L7	C5-C6-C7-L7	3 X 0,35 mm ²	
PNP-NO	(1)	B07G185PO	B07EG188PO	B07185POC5	B07E188POC5	B06G3010PO
PNP-NC	(1)	B07G185PC	B07EG188PC	B07185PCC5	B07E188PCC5	B06G3010PC
NPN-NO	(2)	B07G185NO	B07EG188NO	B07185NOC5	B07E188NOC5	B06G3010NO
NPN-NC	(2)	B07G185NC	B07EG188NC	B07185NCC5	B07E188NCC5	B06G3010NC

SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS

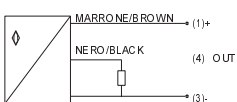




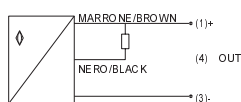
These high protection sensors are suitable for working in environment with a high level of interference due to badly filtered inverters solenoids and actuators.

Ø 30 STANDARD CENELC			Ø 30 CORTI - SHORTY			
●	●	●	●	●	●	●
15 mm	10 mm	15 mm	10 mm	15 mm	10 mm	15 mm
10 ÷ 30 Vdc			10 ÷ 30 Vdc			
≤ 10%			≤ 10%			
200 mA			200 mA			
≤ 3 V @ 200 mA			≤ 3 V @ 200 mA			
≤ 10 mA			≤ 10 mA			
< 2% della portata nominale - nominal sensing distance						
≤ 10% Sn			≤ 10% Sn			
200 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz
Sì - Yes			Sì - Yes			
Sì - Yes			Sì - Yes			
-25 ÷ +70 °C			-25 ÷ +70 °C			
IP67 (con connettore montato - with connector mounted)						
Ottone nichelato - Nickel plated brass						
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
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
B06EG3015PO	B063010POC5	B06E3015POC5	B07G3010PO	B07EG3015PO	B073010POC5	B07E3015POC5
B06EG3015PC	B063010PCC5	B06E3015PCC5	B07G3010PC	B07EG3015PC	B073010PCC5	B07E3015PCC5
B06EG3015NO	B063010NOC5	B06E3015NOC5	B07G3010NO	B07EG3015NO	B073010NOC5	B07E3015NOC5
B06EG3015NC	B063010NCC5	B06E3015NCC5	B07G3010NC	B07EG3015NC	B073010NCC5	B07E3015NCC5

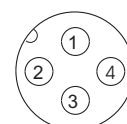
SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



① PNP



② NPN



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

C5-C6-C7-L7 CC/DC