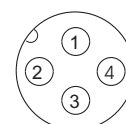
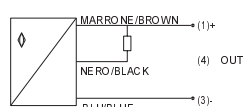
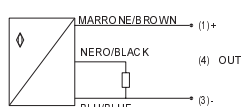


Diametri 6,5-8-12-18-30 mm
con alimentazione 10 ÷ 50 Vdc

Diametri 12-18-30 mm
con alimentazione 10 ÷ 60 Vdc

TIPI - TYPES	Ø 6,5 10 ÷ 50 Vdc					
<p>10 ÷ 50 Vdc 10 ÷ 60 Vdc</p> <p>CARATTERISTICHE FEATURES</p>						
	●	●	●	●	●	
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 ÷ 50 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 kHz	1 kHz	1 kHz	1 kHz	1 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)	B09G6,51PO	B09G6,51,5PO	B09EG6,52PO	B096,51POC5	B096,51,5POC5
PNP-NC	(1)	B09G6,51PC	B09G6,51,5PC	B09EG6,52PC	B096,51PCC5	B096,51,5PCC5
NPN-NO	(2)	B09G6,51NO	B09G6,51,5NO	B09EG6,52NO	B096,51NOC5	B096,51,5NOC5
NPN-NC	(2)	B09G6,51NC	B09G6,51,5NC	B09EG6,52NC	B096,51NCC5	B096,51,5NCC5

SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



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

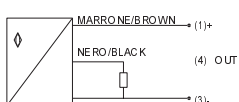


6,5-8-12-18-30 mm diameter,
10 ÷ 50 Vdc supply voltage

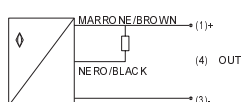
12-18-30 mm diameter.
10 ÷ 60 Vdc supply voltage

Ø 6,5 10 + 50 Vdc	Ø 8 10 + 50 Vdc			Ø 12 10 + 50 Vdc		
68	40	40	50	50	50	50
5	M8x1	M8x1	M8x1	M8x1	M12x1	M12x1
50	40	40	50	50	40	40
4	LED	LED	LED	LED	LED	LED
M12x1			M12x1	M12x1		
2 mm	1 mm	2 mm	1 mm	2 mm	2 mm	4 mm
10 ÷ 50 Vdc	10 ÷ 50 Vdc			10 ÷ 50 Vdc		
≤ 10%	≤ 10%			≤ 10%		
200 mA	200 mA			200 mA		
≤ 3 V @ 200 mA	≤ 3 V @ 200 mA			≤ 3 V @ 200 mA		
≤ 10 mA	≤ 10 mA			≤ 10 mA		
< 2% della portata nominale - nominal sensing distance						
≤ 10% Sn	≤ 10% Sn			≤ 10% Sn		
1 kHz	1,5 kHz	1,5 kHz	1,5 kHz	1,5 kHz	1,5 kHz	1 kHz
Si - Yes	Si - Yes			Si - Yes		
Si - Yes	Si - Yes			Si - Yes		
-25 ÷ +70 °C	-25 ÷ +70 °C			-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	Connettore M12 M12 connector	Connettore M12 M12 connector	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable
C5-C6-C7-L7	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	3 X 0,14 mm ²
B09E6,52POC5	B09G81PO	B09EG82PO	B0981POC5	B09E82POC5	B09G122PO	B09EG124PO
B09E6,52PCC5	B09G81PC	B09EG82PC	B0981PCC5	B09E82PCC5	B09G122PC	B09EG124PC
B09E6,52NOC5	B09G81NO	B09EG82NO	B0981NOC5	B09E82NOC5	B09G122NO	B09EG124NO
B09E6,52NCC5	B09G81NC	B09EG82NC	B0981NCC5	B09E82NCC5	B09G122NC	B09EG124NC

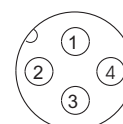
SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



① PNP

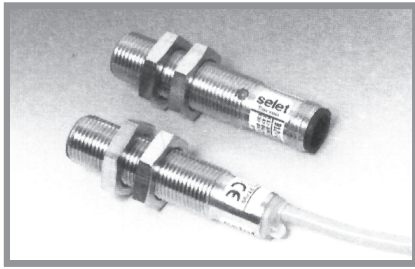


② NPN



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

C5-C6-C7-L7 CC/DC

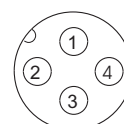
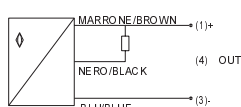


Diametri 6,5-8-12-18-30 mm
con alimentazione 10 ÷ 50 Vdc

Diametri 12-18-30 mm
con alimentazione 10 ÷ 60 Vdc

TIPI - TYPES	Ø 12 10 + 50 Vdc		Ø 12 10 + 60 Vdc		
<p>10 + 50 Vdc 10 + 60 Vdc</p>					
CARATTERISTICHE FEATURES					
Schermato - <i>Shielded</i>	●		●		
Non schermato - <i>Unshielded</i>	●		●		
Portata nominale - <i>Nominal sensing distance</i>	2 mm		4 mm		
Tensione di alimentazione - <i>Supply voltage</i>	10 ÷ 50 Vdc			10 ÷ 60 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>	1,5 kHz	1 kHz	1,5 kHz	1 kHz	1,5 kHz
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			-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>	Connettore M12 M12 connector	Connettore M12 M12 connector	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Connettore M12 M12 connector
Collegamento - <i>Linking</i>	C5-C6-C7-L7	C5-C6-C7-L7	3 X 0,14 mm ²	3 X 0,14 mm ²	C5-C6-C7-L7
PNP-NO	(1)	B09122POC5	B09E124POC5	B10G122PO	B10EG124PO
PNP-NC	(1)	B09122PCC5	B09E124PCC5	B10G122PC	B10EG124PC
NPN-NO	(2)	B09122NOC5	B09E124NOC5	B10G122NO	B10EG124NO
NPN-NC	(2)	B09122NCC5	B09E124NCC5	B10G122NC	B10EG124NC

SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



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

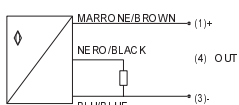


6,5-8-12-18-30 mm diameter,
10 ÷ 50 Vdc supply voltage

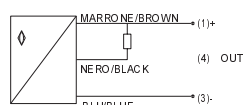
12-18-30 mm diameter.
10 ÷ 60 Vdc supply voltage

Ø12 10 + 60 Vdc		Ø 18 10 + 50 Vdc			Ø 18 10 + 60 Vdc	
●	●	●	●	●	●	●
4 mm	5 mm	8 mm	5 mm	8 mm	5 mm	8 mm
10 ÷ 60 Vdc	10 ÷ 50 Vdc			10 ÷ 60 Vdc		
≤ 10%	≤ 10%			≤ 10%		
200 mA	200 mA			200 mA		
≤ 3 V @ 200 mA	≤ 3 V @ 200 mA			≤ 3 V @ 200 mA		
≤ 10 mA	≤ 10 mA			≤ 10 mA		
< 2% della portata nominale - nominal sensing distance						
≤ 10% Sn	≤ 10% Sn			≤ 10% Sn		
1 kHz	700 Hz	400 Hz	700 Hz	400 Hz	700 Hz	400 Hz
Si - Yes	Si - Yes			Si - Yes		
Si - Yes	Si - Yes			Si - Yes		
-25 ÷ +70 °C	-25 ÷ +70 °C			-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	Connettore M12 M12 connector	Connettore M12 M12 connector	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable
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
B10E124POC5	B09G185PO	B09EG188PO	B09185POC5	B09E188POC5	B10G185PO	B10EG188PO
B10E124PCC5	B09G185PC	B09EG188PC	B09185PCC5	B09E188PCC5	B10G185PC	B10EG188PC
B10E124NOC5	B09G185NO	B09EG188NO	B09185NOC5	B09E188NOC5	B10G185NO	B10EG188NO
B10E124NCC5	B09G185NC	B09EG188NC	B09185NCC5	B09E188NCC5	B10G185NC	B10EG188NC

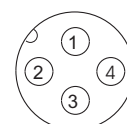
SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



① PNP

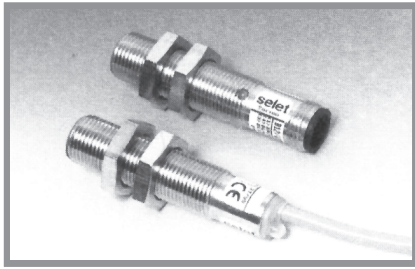


② NPN



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

C5-C6-C7-L7 CC/DC

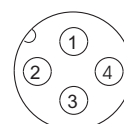
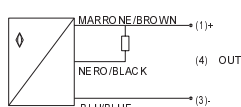
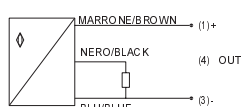


Diametri 6,5-8-12-18-30 mm
con alimentazione 10 ÷ 50 Vdc

Diametri 12-18-30 mm
con alimentazione 10 ÷ 60 Vdc

TIPI - TYPES	Ø 18 10 + 60 Vdc		Ø 30 10 + 50 Vdc			
<p>10 + 50 Vdc 10 + 60 Vdc</p>						
CARATTERISTICHE FEATURES						
Schermato - <i>Shielded</i>	●		●			
Non schermato - <i>Unshielded</i>	●		●			
Portata nominale - <i>Nominal sensing distance</i>	5 mm		8 mm		10 mm	
Tensione di alimentazione - <i>Supply voltage</i>	10 ÷ 60 Vdc			10 ÷ 50 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>	700 Hz	400 Hz	200 Hz	200 Hz	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			-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>	Connettore M12 M12 connector	Connettore M12 M12 connector	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Connettore M12 M12 connector	
Collegamento - <i>Linking</i>	C5-C6-C7-L7	C5-C6-C7-L7	3 X 0,35 mm ²	3 X 0,35 mm ²	C5-C6-C7-L7	
PNP-NO	(1)	B10185POC5	B10E188POC5	B09G3010PO	B09EG3015PO	B093010POC5
PNP-NC	(1)	B10185PCC5	B10E188PCC5	B09G3010PC	B09EG3015PC	B093010PCC5
NPN-NO	(2)	B10185NOC5	B10E188NOC5	B09G3010NO	B09EG3015NO	B093010NOC5
NPN-NC	(2)	B10185NCC5	B10E188NCC5	B09G3010NC	B09EG3015NC	B093010NCC5

SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



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

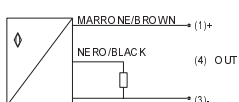


6,5-8-12-18-30 mm diameter,
10 ÷ 50 Vdc supply voltage

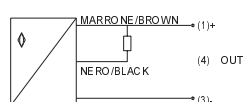
12-18-30 mm diameter.
10 ÷ 60 Vdc supply voltage

Ø 30 10 + 50 Vdc		Ø 30 10 + 60 Vdc				
●	●	●	●	●	●	
15 mm	10 mm	15 mm	10 mm	15 mm		
10 ÷ 60 Vdc	10 ÷ 60 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	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						
Connettore M12 M12 connector	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Connettore M12 M12 connector	Connettore M12 M12 connector		
C5-C6-C7-L7	3 X 0,35 mm ²	3 X 0,35 mm ²	C5-C6-C7-L7	C5-C6-C7-L7		
B09E3015POC5	B10G3010PO	B10EG3015PO	B103010POC5	B10E3015POC5		
B09E3015PCC5	B10G3010PC	B10EG3015PC	B103010PCC5	B10E3015PCC5		
B09E3015NOC5	B10G3010NO	B10EG3015NO	B103010NOC5	B10E3015NOC5		
B09E3015NCC5	B10G3010NC	B10EG3015NC	B103010NCC5	B10E3015NCC5		

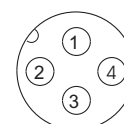
SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



① PNP



② NPN



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

C5-C6-C7-L7 CC/DC