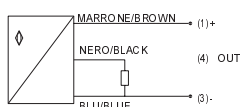


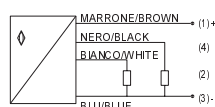
- Sensori con diametro 50 mm
- Sensori in contenitore parallelepipedo
- Serie amplificata in C.C.
- Serie amplificata in C.A.

TIPI - TYPES	C.C. Amplificati - D.C. Amplified					
<p>Altre forme Other shapes</p> <p>CARATTERISTICHE FEATURES</p>						
Schermato - Shielded	●	●				
Non schermato - Unshielded			●	●	●	
Portata nominale - Nominal sensing distance	4 ÷ 40 mm	4 ÷ 40 mm	4 ÷ 50 mm	4 ÷ 50 mm	4 ÷ 50 mm	
Tensione di alimentazione - Supply voltage	10 ÷ 30 Vdc					
Ondulazione residua - Ripple	≤ 10%					
Corrente massima di carico - Maximum load current	200 mA					
Caduta di tensione - Voltage drop	≤ 3 V @ 200 mA					
Assorbimento - Power consumption	≤ 15 mA					
Ripetibilità - Repeatability	< 10% della portata nominale - nominal sensing distance					
Isteresi - Hysteresis	2 ÷ 15% Sn					
Frequenza di commutazione - Switching frequency	40 Hz					
Protezione al corto circuito - Short circuit protection	Sì - Yes					
Led di segnalazione - Status output led	Sì - Yes					
Temperatura di funzionamento - Working temperature	-25 ÷ +70 °C					
Grado di protezione - IP rating	IP65 (con connettore montato - with connector mounted)					
Custodia - Housing	Ottone nichelato - Nickel plated brass			ABS		
Connessione - Connection	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	
Collegamento - Linking	3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>	3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>	3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>	3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>	3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>	
<b>PNP-NO</b>	<b>(1)</b>	<b>K01G50PO</b>	<b>K13G50PO</b>	<b>K01EG50PO</b>	<b>K14EG50PO</b>	<b>K20EG50PO</b>
<b>PNP-NC</b>	<b>(1)</b>	<b>K01G50PC</b>	<b>K13G50PC</b>	<b>K01EG50PC</b>	<b>K14EG50PC</b>	<b>K20EG50PC</b>
<b>PNP-SC</b>	<b>(4)</b>	<b>K01G50PSC</b>	<b>K13G50PSC</b>	<b>K01EG50PSC</b>	<b>K14EG50PSC</b>	<b>K20EG50PSC</b>
<b>NPN-NO</b>	<b>(2)</b>	<b>K01G50NO</b>	<b>K13G50NO</b>	<b>K01EG50NO</b>	<b>K14EG50NO</b>	<b>K20EG50NO</b>
<b>NPN-NC</b>	<b>(2)</b>	<b>K01G50NC</b>	<b>K13G50NC</b>	<b>K01EG50NC</b>	<b>K14EG50NC</b>	<b>K20EG50NC</b>
<b>NPN-SC</b>	<b>(5)</b>	<b>K01G50NSC</b>	<b>K13G50NSC</b>	<b>K01EG50NSC</b>	<b>K14EG50NSC</b>	<b>K20EG50NSC</b>
<b>C.A. NO</b>	<b>(7)</b>	-	-	-	-	-
<b>C.A. NC</b>	<b>(7)</b>	-	-	-	-	-

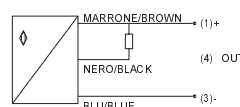
## SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



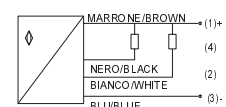
166 ① PNP



④ PNP



② NPN



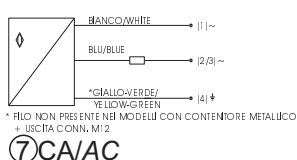
⑤ NPN



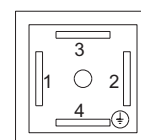
- 50 mm diameter sensors
- Block type sensors
- D.C. amplified series
- A.C. amplified series

C.C. Amplificati - D.C. Amplified		C.A. - A.C.	
●	●	●	●
4 ÷ 14 mm	5 ÷ 70 mm	5 ÷ 70 mm	4 ÷ 30 mm
	10 ÷ 30 Vdc		20 ÷ 220 Vac
	≤ 10%		-
	200 mA		15 ÷ 400 mA
	≤ 3 V @ 200 mA		< 6 Vac
	≤ 15 mA		< 2,5 mA
<i>&lt; 10% della portata nominale - nominal sensing distance</i>			
	2 ÷ 15 % Sn		2 ÷ 15% Sn
	40 Hz		10 Hz
	Sì - Yes		No
	Sì - Yes		Sì - Yes
	-25 ÷ +70 °C		-25 ÷ +70 °C
IP65 (con connettore montato - with connector mounted)			
ABS		Ottone nichelato - Nickel plated brass	
Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Connettore C4 C4 connector	Cavo 2 m 2 m cable
3 x 0,35 mm <sup>2</sup>	3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>	C4	3 x 0,35 mm <sup>2</sup>
-	<b>K01QEG80PO</b>	<b>K01QE80POC4</b>	-
-	<b>K01QEG80PC</b>	<b>K01QE80PCC4</b>	-
-	<b>K01QEG80PSC</b>	<b>K01QE80PSCC4</b>	-
<b>K01QEG40NO</b>	<b>K01QEG50NO</b>	<b>K01QE80NOC4</b>	-
-	<b>K01QEG80NC</b>	<b>K01QE80NCC4</b>	-
-	<b>K01QEG80NSC</b>	<b>K01QE80NSCC4</b>	-
-	-	-	<b>K01G50AO</b>
-	-	-	<b>K01G50AC</b>

### SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS



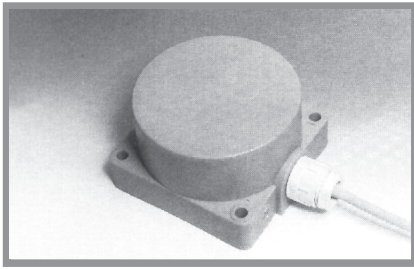
- 1 + MARRONE / BROWN  
 4 OUT NERO / BLACK  
 3 - BLU / BLUE



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

C4 CC/DC

C4 CC/DC

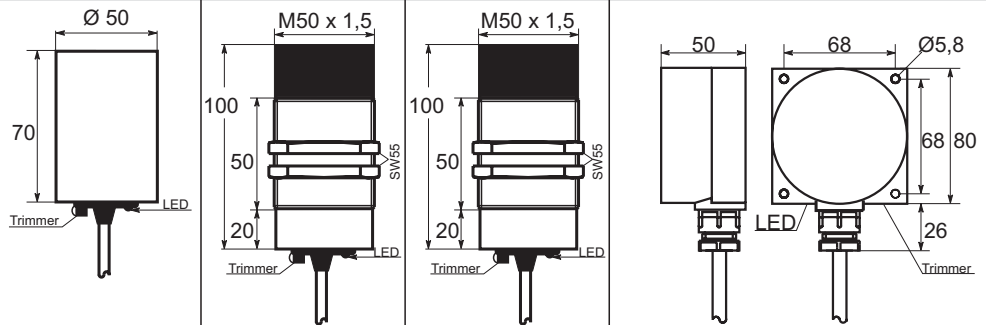


- Sensori con diametro 50 mm
- Sensori in contenitore parallelepipedo
- Serie amplificata in C.C.
- Serie amplificata in C.A.

## TIPI - TYPES

## C.A. Amplificati - A.C. Amplified

Altre forme  
Other shapes



## CARATTERISTICHE FEATURES

Schermato - <i>Shielded</i>	●	●		
Non schermato - <i>Unshielded</i>			●	●
Portata nominale - <i>Nominal sensing distance</i>	4 ÷ 30 mm	4 ÷ 40 mm	4 ÷ 40 mm	5 ÷ 60 mm
Tensione di alimentazione - <i>Supply voltage</i>	20 ÷ 220 Vac			
Ondulazione residua - <i>Ripple</i>	-			
Corrente massima di carico - <i>Maximum load current</i>	15 ÷ 400 mA			
Caduta di tensione - <i>Voltage drop</i>	< 6 Vac			
Assorbimento - <i>Power consumption</i>	< 2,5 mA			
Ripetibilità - <i>Repeatability</i>	< 10% della portata nominale - <i>nominal sensing distance</i>			
Isteresi - <i>Hysteresis</i>	2 ÷ 15 % Sn			
Frequenza di commutazione - <i>Switching frequency</i>	60 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>	IP65 (con connettore montato - <i>with connector mounted</i> )			
Custodia - <i>Housing</i>	Ottone nichelato - <i>Nickel plated brass</i>		ABS	
Connessione - <i>Connection</i>	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable	Cavo 2 m 2 m cable
Collegamento - <i>Linking</i>	3 x 0,35 mm <sup>2</sup>	3 x 0,35 mm <sup>2</sup>	2 x 0,35 mm <sup>2</sup>	2 x 0,35 mm <sup>2</sup>
<b>PNP-NO</b>	<b>(1)</b>	-	-	-
<b>PNP-NC</b>	<b>(1)</b>	-	-	-
<b>PNP-SC</b>	<b>(4)</b>	-	-	-
<b>NPN-NO</b>	<b>(2)</b>	-	-	-
<b>NPN-NC</b>	<b>(2)</b>	-	-	-
<b>NPN-SC</b>	<b>(5)</b>	-	-	-
<b>C.A. NO</b>	<b>(7)</b>	<b>K13G50AO</b>	<b>K01EG50AO</b>	<b>K14EG50AO</b>
<b>C.A. NC</b>	<b>(7)</b>	<b>K13G50AC</b>	<b>K01EG50AC</b>	<b>K14EG50AC</b>

## SCHEMI DI COLLEGAMENTO - CONNECTION DIAGRAMS

