

**INTERRUTTORE DI PROSSIMITA'  
CAPACITIVO FILETTATO CON  
CUSTODIA PLASTICA  
IN C.C. E C.A.**

**SERIE  
*SERIES***

**K14**

***CAPACITIVE PROXIMITY SWITCHES  
THREADED WITH PLASTIC BODY  
D.C. AND A.C. TYPE***

# INTERRUTTORI DI PROSSIMITA' CAPACITIVI FILETTATO CON CUSTODIA PLASTICA IN C.C. E C.A. CAPACITIVE PROXIMITY SWITCHES THREADED WITH PLASTIC BODY D.C. AND A.C. TYPE

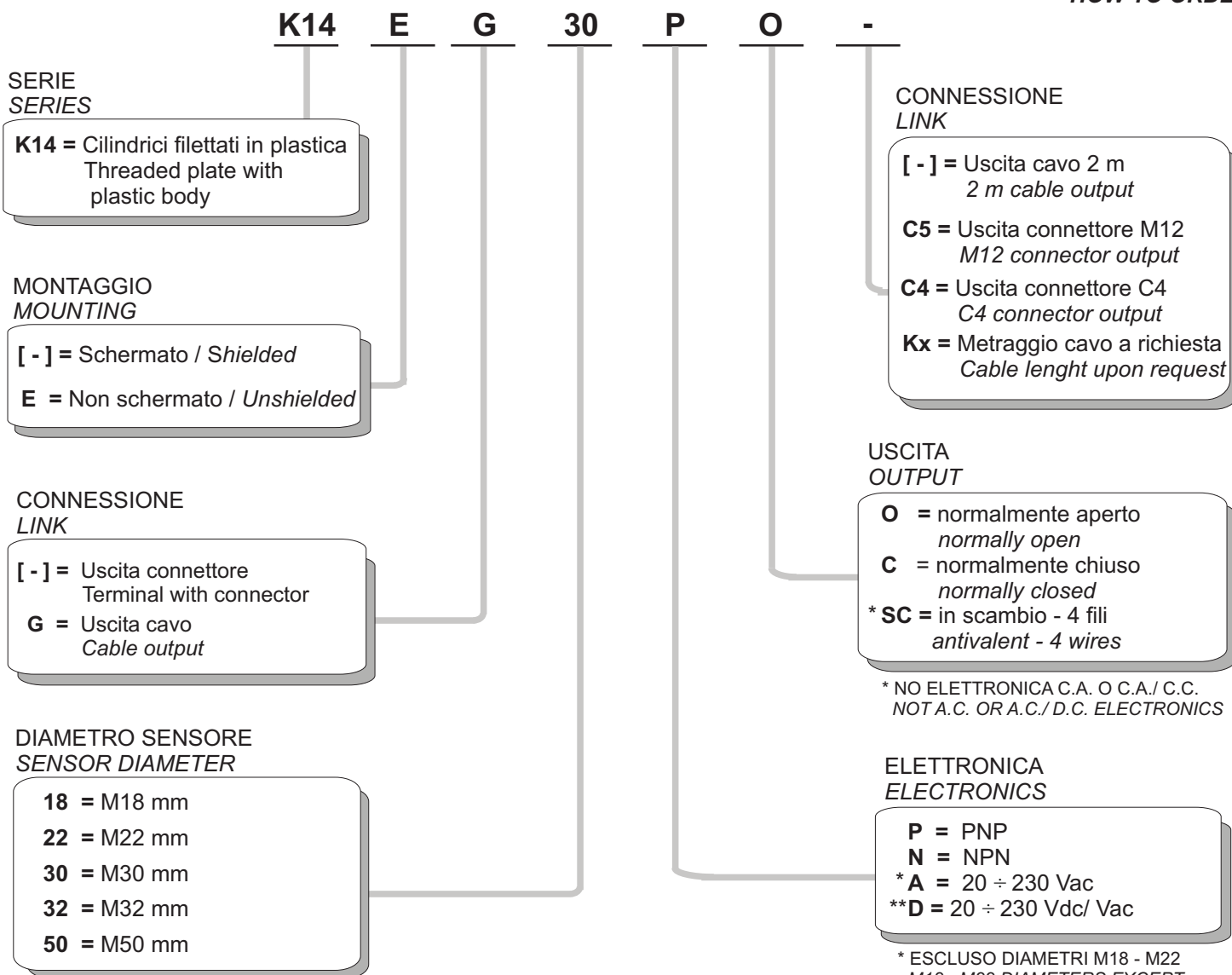


- ⇒ INTERRUTTORI DI PROSSIMITA' CILINDRICI  
CAPACITIVI DIAMETRI 18 - 22 - 30 - 32 - 50 mm
- ⇒ USCITA CAVO O CONNETTORE M12
- ⇒ ALIMENTAZIONE IN C.C. 10 ÷ 30 Vcc
- ⇒ ALIMENTAZIONE IN C.A. 20 ÷ 230 Vca
- ⇒ ALIMENTAZIONE IN C.C./ C.A. 20 ÷ 230 Vcc/ Vca

- ⇒ CAPACITIVE CYLINDRICAL PROXIMITY SWITCHES  
18, 22, 30, 32, 50 mm DIAMETER
- ⇒ CABLE OUTPUT OR M12 CONNECTOR OUTPUT
- ⇒ D.C. 10 ÷ 30 Vdc SUPPLY VERSIONS
- ⇒ A.C. 20 ÷ 230 Vac SUPPLY VERSIONS
- ⇒ D.C./A.C. 20 ÷ 230 Vdc/ Vac SUPPLY VERSIONS

## COME ORDINARE

## HOW TO ORDER



\* NO ELETTRONICA C.A. O C.A./ C.C.  
NOT A.C. OR A.C./ D.C. ELECTRONICS

\* ESCLUSO DIAMETRI M18 - M22  
M18 - M22 DIAMETERS EXCEPT

\*\* SOLO DIAMETRI M30 - M32  
M30 - M32 DIAMETERS ONLY

PLEASE NOTE: this matrix is intended only to aid you in identifying sensor catalog listing. It is not all-inclusive and must not be used to form new listings.  
NOTA BENE: questo schema è fornito solo per aiutare a identificare le caratteristiche dei prodotti a catalogo. Non è onnicomprensivo e pertanto non deve essere usato per creare nuovi riferimenti di prodotti.

**CARATTERISTICHE ELETTRICHE**
**ELECTRICAL FEATURES**
**VERSIONE IN C.C.**
**D.C TYPE**

ALIMENTAZIONE	<b>10 ÷ 30 Vcc/Vdc</b>	<i>SUPPLY VOLTAGE</i>
ONDULAZIONE RESIDUA	<b>&lt; 10%</b>	<i>RIPPLE</i>
ASSORBIMENTO	<b>&lt; 15 mA</b>	<i>POWER CONSUMPTION</i>
CARICO MASSIMO	<b>200 mA</b>	<i>MAXIMUM LOAD</i>
CADUTA DI TENSIONE	<b>&lt; 3 V @ 200 mA</b>	<i>VOLTAGE DROP</i>
PROTEZIONE C.C.	<b>SI / YES</b>	<i>SHORT CIRCUIT PROTECTION</i>
PROTEZIONE INVERS. POLARITA'	<b>SI / YES</b>	<i>REVERSE POLARITY PROTECTION</i>
LED DI SEGNALEZIONE	<b>SI / YES</b>	<i>OUTPUT STATUS LED</i>
COMPATIBILITA' ELETTRICITÄ CE	<b>EN60947-5-2</b>	<i>CE COMPLIANCE</i>
CERTIFICAZIONE	<b>CE</b>	<i>CERTIFICATION</i>

**VERSIONE IN C.A.**
**A.C. TYPE**

ALIMENTAZIONE	<b>20 ÷ 230 Vca/Vac</b>	<i>SUPPLY VOLTAGE</i>
ONDULAZIONE RESIDUA	<b>-</b>	<i>RIPPLE</i>
ASSORBIMENTO	<b>&lt; 2,5 mA</b>	<i>POWER CONSUMPTION</i>
CARICO MASSIMO	<b>15 ÷ 400 mA</b>	<i>MAXIMUM LOAD</i>
CADUTA DI TENSIONE	<b>&lt; 6 Vac</b>	<i>VOLTAGE DROP</i>
PROTEZIONE C.C.	<b>NO</b>	<i>SHORT CIRCUIT PROTECTION</i>
LED DI SEGNALEZIONE	<b>SI / YES</b>	<i>OUTPUT STATUS LED</i>
COMPATIBILITA' ELETTRICITÄ CE	<b>EN60947-5-2</b>	<i>CE COMPLIANCE</i>
CERTIFICAZIONE	<b>CE</b>	<i>CERTIFICATION</i>

**VERSIONE IN C.C./ C.A.**
**D.C./ A.C. TYPE**

ALIMENTAZIONE	<b>20 ÷ 230 Vcc/Vca Vdc/Vac</b>	<i>SUPPLY VOLTAGE</i>
ONDULAZIONE RESIDUA	<b>-</b>	<i>RIPPLE</i>
ASSORBIMENTO	<b>&lt; 2,3 mA</b>	<i>POWER CONSUMPTION</i>
CARICO MASSIMO	<b>10 ÷ 400 mA</b>	<i>MAXIMUM LOAD</i>
CADUTA DI TENSIONE	<b>&lt; 6 V</b>	<i>VOLTAGE DROP</i>
PROTEZIONE C.C.	<b>NO</b>	<i>SHORT CIRCUIT PROTECTION</i>
LED DI SEGNALEZIONE	<b>SI / YES</b>	<i>OUTPUT STATUS LED</i>
COMPATIBILITA' ELETTRICITÄ CE	<b>EN60947-5-2</b>	<i>CE COMPLIANCE</i>
CERTIFICAZIONE	<b>CE</b>	<i>CERTIFICATION</i>

**CARATTERISTICHE TECNICHE**
**TECHNICAL FEATURES**
**SENSORI DIAMETRO 18 mm**
**18 mm DIAMETER SENSORS**

	<b>M18</b>		
SCHERMATO	•		<i>SHIELDED (FLUSH)</i>
NON SCHERMATO		•	<i>UNSHIELDED (NO FLUSH)</i>
DISTANZA D'INTERVENTO - $S_n$	1 ÷ 8 mm	2 ÷ 15 mm	<i>S<sub>n</sub> - SENSING DISTANCE</i>
DISTANZA REALE	± 10% $S_n$		<i>REAL DISTANCE</i>
ISTERESI	≤ 10% $S_n$		<i>HYSTERESIS</i>
RIPETIBILITÀ	< 10% $S_n$		<i>REPEATABILITY</i>
FREQUENZA MASSIMA	100 Hz		<i>MAX. SWITCHING FREQUENCY</i>
TEMPERATURA DI LAVORO	-25°C ÷ +70°C		<i>WORKING TEMPERATURE</i>
MATERIALE CORPO	PLASTICO (ABS)		<i>BODY MATERIAL</i>
PROTEZIONE	IP65(con connettore montato/with connector mounted)		<i>PROTECTION RATING</i>
CAVO	3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>		<i>CABLE</i>

**SENSORI DIAMETRO 22 mm**
**22 mm DIAMETER SENSORS**

	<b>M22</b>		
NON SCHERMATO	•		<i>UNSHIELDED (FLUSH)</i>
DISTANZA D'INTERVENTO - $S_n$	2 ÷ 20 mm		<i>SENSING DISTANCE</i>
DISTANZA REALE	± 10% $S_n$		<i>REAL DISTANCE</i>
ISTERESI	2 ÷ 15% $S_n$		<i>HYSTERESIS</i>
RIPETIBILITÀ	< 10% $S_n$		<i>REPEATABILITY</i>
FREQUENZA MASSIMA	100 Hz		<i>MAX. SWITCHING FREQUENCY</i>
TEMPERATURA DI LAVORO	-25°C ÷ +70°C		<i>WORKING TEMPERATURE</i>
MATERIALE CORPO	PLASTICO (ABS)		<i>BODY MATERIAL</i>
PROTEZIONE	IP65 (con connettore montato/with connector mounted)		<i>PROTECTION RATING</i>
CAVO	3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>		<i>CABLE</i>
CONNETTORE M12 (C5)	C5-C6-C7-L7-C9-L9		<i>(C5) M12 CONNECTOR</i>

**SENSORI DIAMETRO 30 mm**
**30 mm DIAMETER SENSORS**

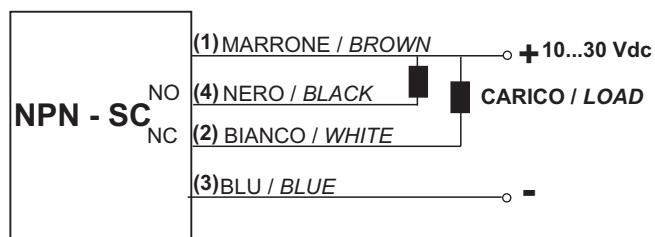
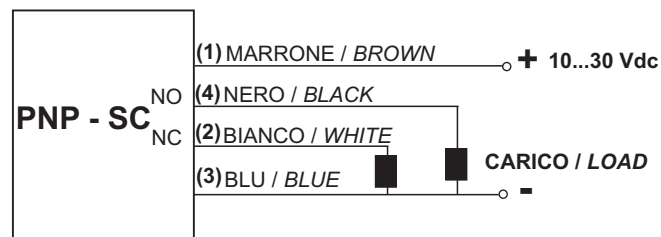
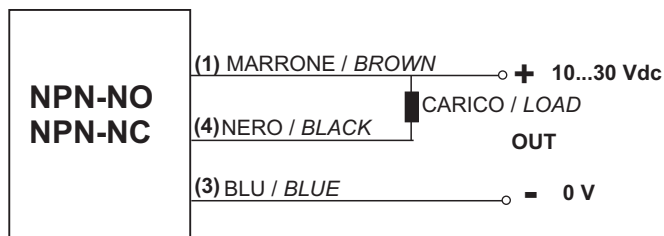
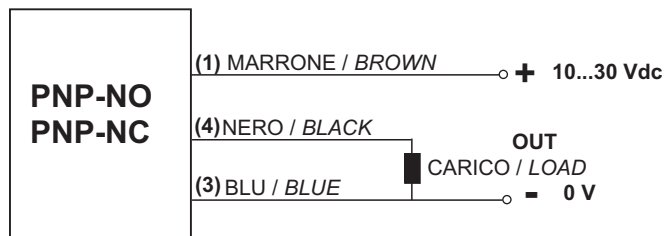
	<b>M30</b>			
SCHERMATO	•			<i>SHIELDED (FLUSH)</i>
NON SCHERMATO		•		<i>UNSHIELDED (NO FLUSH)</i>
DISTANZA D'INTERVENTO - $S_n$	2 ÷ 20 mm	3 ÷ 30 mm	2 ÷ 25 mm (CC/CA)	<i>S<sub>n</sub> - SENSING DISTANCE</i>
DISTANZA REALE	± 10% $S_n$			<i>REAL DISTANCE</i>
ISTERESI	2 ÷ 15% $S_n$			<i>HYSTERESIS</i>
RIPETIBILITÀ	≤ 10% $S_n$			<i>REPEATABILITY</i>
FREQUENZA MASSIMA	100 Hz		10 Hz (CC/CA)	<i>MAX. SWITCHING FREQUENCY</i>
TEMPERATURA DI LAVORO	-25°C ÷ +70°C			<i>WORKING TEMPERATURE</i>
MATERIALE CORPO	PLASTICO (ABS)			<i>BODY MATERIAL</i>
PROTEZIONE	IP65(con connettore montato/with connector mounted)			<i>PROTECTION RATING</i>
CAVO	2x0,35 mm <sup>2</sup> 3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>			<i>CABLE</i>
CONNETTORE M12 (C5)	C5-C6-C7-L7-C9-L9			<i>(C5) M12 CONNECTOR</i>
CONNETTORE ALTRO TIPO	C4			<i>C4 CONNECTOR</i>

**SENSORI DIAMETRO 32 mm**
**32 mm DIAMETER SENSORS**

	<b>M32</b>	
NON SCHERMATO	•	<i>UNSHIELDED (NO FLUSH)</i>
DISTANZA D'INTERVENTO - $S_n$	$3 \div 30$ mm	<i>SENSING DISTANCE</i>
DISTANZA REALE	$\pm 10\%$ $S_n$	<i>REAL DISTANCE</i>
ISTERESI	$2 \div 15\%$ $S_n$	<i>HYSTERESIS</i>
RIPETIBILITÀ	$\leq 10\%$ $S_n$	<i>REPEATABILITY</i>
FREQUENZA MASSIMA	60 Hz	<i>MAX. SWITCHING FREQUENCY</i>
TEMPERATURA DI LAVORO	$-25^{\circ}\text{C} \div +70^{\circ}\text{C}$	<i>WORKING TEMPERATURE</i>
MATERIALE CORPO	PLASTICO (ABS)	<i>BODY MATERIAL</i>
PROTEZIONE	IP65 (con connettore montato/with connector mounted)	<i>PROTECTION RATING</i>
CAVO	2x0,35 mm <sup>2</sup> 3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>	<i>CABLE</i>
CONNETTORE M12 (C5)	C5-C6-C7-L7-C9-L9	<i>(C5) M12 CONNECTOR</i>

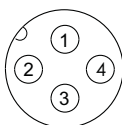
**SENSORI DIAMETRO 50 mm**
**50 mm DIAMETER SENSORS**

	<b>M50</b>	
NON SCHERMATO	•	<i>UNSHIELDED (NO FLUSH)</i>
DISTANZA D'INTERVENTO - $S_n$	$4 \div 50$ mm	<i><math>S_n</math> - SENSING DISTANCE</i>
DISTANZA REALE	$\pm 10\%$ $S_n$	<i>REAL DISTANCE</i>
ISTERESI	$2 \div 15\%$ $S_n$	<i>HYSTERESIS</i>
RIPETIBILITÀ	$\leq 10\%$ $S_n$	<i>REPEATABILITY</i>
FREQUENZA MASSIMA	60 Hz	<i>MAX. SWITCHING FREQUENCY</i>
TEMPERATURA DI LAVORO	$-25^{\circ}\text{C} \div +70^{\circ}\text{C}$	<i>WORKING TEMPERATURE</i>
MATERIALE CORPO	PLASTICO (ABS)	<i>BODY MATERIAL</i>
PROTEZIONE	IP65(con connettore montato/with connector mounted)	<i>PROTECTION RATING</i>
CAVO	2x0,35 mm <sup>2</sup> 3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>	<i>CABLE</i>

**COLLEGAMENTI**
**CONNECTIONS**
**3/4 FILI C.C. / D.C. 3/4 WIRES**


**CONNETTORE M12 (C5) (C.C.) /  
(C5) M12 CONNECTOR (D.C.)**

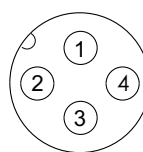
1 + MARRONE / BROWN  
4 OUT NERO / BLACK  
3 - BLU / BLUE



C5-C6-C7-L7 CC/DC

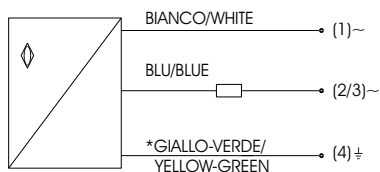
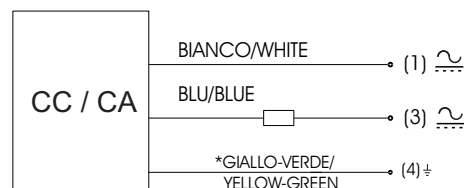
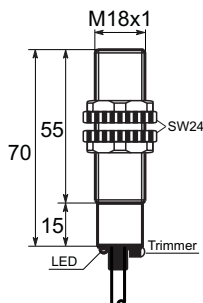
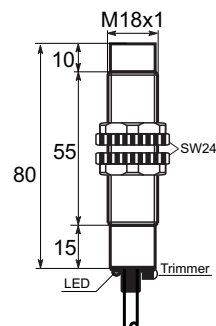
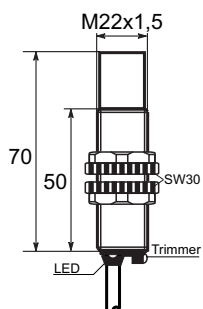
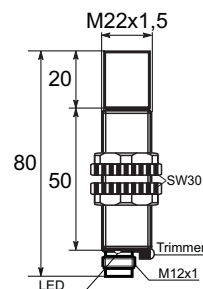
1 + MARRONE / BROWN  
2 NC OUT BIANCO/WHITE  
3 - BLU / BLUE  
4 NO OUT NERO / BLACK

C5-C6-C9-L9 CC/DC

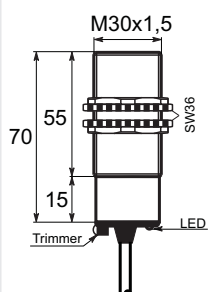
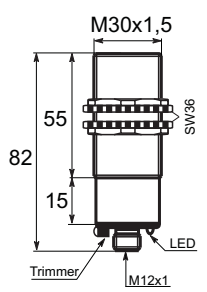
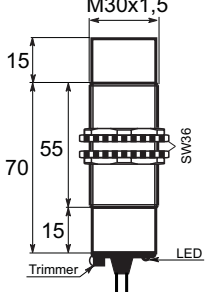
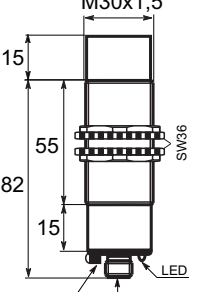
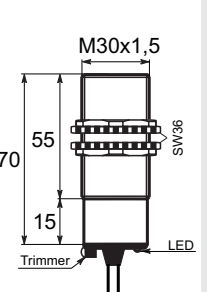
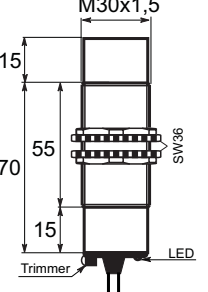
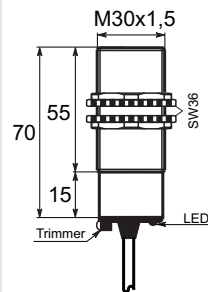
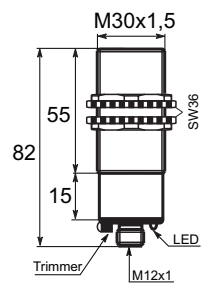
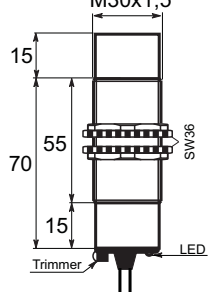
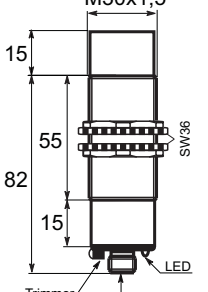
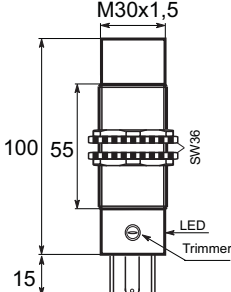
**CONNETTORE M12 (C5) (C.A.) /  
(C5) M12 CONNECTOR (A.C.)**


1 ~ MARRONE / BROWN  
2/3 ~ BLU/BLUE  
4\* ⚡ GIALLO-VERDE/  
YELLOW-GREEN

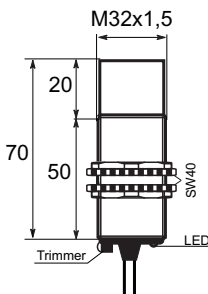
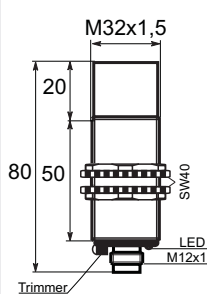
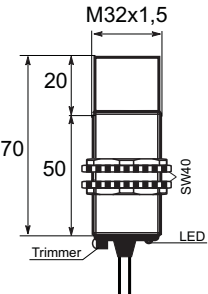
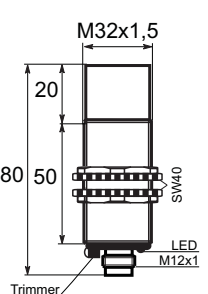
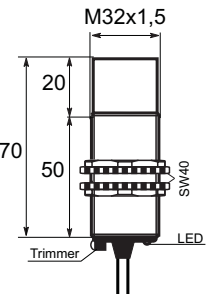
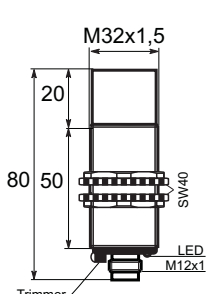
\* FILO NON PRESENTE NEI MODELLI CON  
CONTENITORE METALLICO + USCITA CONN. M12

**3/4 FILI C.A. A.C. 3/4WIRES**

**3 FILI C.C./C.A. D.C./A.C. 3 WIRES**

**DIMENSIONI MECCANICHE**
**MECHANICAL SIZE**
**DIAMETRO 18 mm**
**18 mm DIAMETER**
**K14G18\_**

**K14EG18\_**

**DIAMETRO 22 mm**
**22 mm DIAMETER**
**K14EG22\_**

**K14E22\_C5**


**DIAMETRO 30 mm**
**30 mm DIAMETER**

K14G30_	K1430_C5	K14EG30_	K14E30_C5	K14G30A_	K14EG30A_
					
K14G30D_	K1430D_C5	K14EG30D_	K14E30D_C5	K14E30D_C4	
					

**DIAMETRO 32 mm**
**32 mm DIAMETER**

K14EG32_	K14E32_C5	K14EG32A_	K14E32A_C5	K14EG32D_	K14E32D_C5
					

**DIAMETRO 50 mm**
**50 mm DIAMETER**

**ELENCO PRODOTTI**
**PRODUCTS LIST**
**DIAMETRO 18 mm**
**18 mm DIAMETER**

	USCITA CAVO / CABLE OUTPUT			
	SCHERMATO SHIELDED	NON SCHERMATO UNSHIELDED		
PNP-NO	K14G18PO	K14EG18PO		
PNP-NC	K14G18PC	K14EG18PC		
PNP-SC	K14G18PSC	K14EG18PSC		
NPN-NO	K14G18NO	K14EG18NO		
NPN-NC	K14G18NC	K14EG18NC		
NPN-SC	K14G18NSC	K14EG18NSC		
C.A. NO	-	-		
C.A. NC	-	-		

**DIAMETRO 22 mm**
**22 mm DIAMETER**

	USCITA CAVO / CABLE OUTPUT		USCITA CONNETTORE M12 / M12 CONNECTOR OUTPUT	
		NON SCHERMATO / UNSHIELDED		NON SCHERMATO / UNSHIELDED
PNP-NO	-	K14EG22PO	-	K14E22POC5
PNP-NC	-	K14EG22PC	-	K14E22PCC5
PNP-SC	-	K14EG22PSC	-	K14E22PSCC5
NPN-NO	-	K14EG22NO	-	K14E22NOC5
NPN-NC	-	K14EG22NC	-	K14E22NCC5
NPN-SC	-	K14EG22NSC	-	K14E22NSC5



**DIAMETRO 30 mm**
**30 mm DIAMETER**

	USCITA CAVO / CABLE OUTPUT		USCITA CONNETTORE M12 / M12 CONNECTOR OUTPUT		USCITA CONNETTORE C4 / C4 CONNECTOR OUTPUT	
	SCHERMATO / SHIELDED	NON SCHERMATO / UNSHIELDED	SCHERMATO / SHIELDED	NON SCHERMATO / UNSHIELDED	SCHERMATO / SHIELDED	NON SCHERMATO / UNSHIELDED
PNP-NO	K14G30PO	K14EG30PO	K1430POC5	K14E30POC5	-	-
PNP-NC	K14G30PC	K14EG30PC	K1430PCC5	K14E30PCC5	-	-
PNP-SC	K14G30PSC	K14EG30PSC	K1430PSCC5	K14E30PSCC5	-	-
NPN-NO	K14G30NO	K14EG30NO	K1430NOC5	K14E30NOC5	-	-
NPN-NC	K14G30NC	K14EG30NC	K1430NCC5	K14E30NCC5	-	-
NPN-SC	K14G30NSC	K14EG30NSC	K1430NSCC5	K14E30NSCC5	-	-
C.A. NO	K14G30AO	K14EG30AO	-	-	-	-
C.A. NC	K14G30AC	K14EG30AC	-	-	-	-
C.A./C.C. NO	K14G30DO	K14EG30DO	K1430DOC5	K14E30DOC5	-	K14E30DOC4
C.A./C.C. NC	K14G30DC	K14EG30DC	K1430DCC5	K14E30DCC5	-	K14E30DCC4

**DIAMETRO 32 mm**
**32 mm DIAMETER**

	USCITA CAVO / CABLE OUTPUT		USCITA CONNETTORE M12 / M12 CONNECTOR OUTPUT			
		NON SCHERMATO / UNSHIELDED		NON SCHERMATO / UNSHIELDED		
PNP-NO	-	K14EG32PO	-	K14E32POC5	-	-
PNP-NC	-	K14EG32PC	-	K14E32PCC5	-	-
PNP-SC	-	K14EG32PSC	-	K14E32PSCC5	-	-
NPN-NO	-	K14EG32NO	-	K14E32NOC5	-	-
NPN-NC	-	K14EG32NC	-	K14E32NCC5	-	-
NPN-SC	-	K14EG32NSC	-	K14E32NSCC5	-	-
C.A. NO	-	K14EG32AO	-	K14E32AOC5	-	-
C.A. NC	-	K14EG32AC	-	K14E32ACC5	-	-
C.A./C.C. NO	-	K14EG32DO	-	K14E32DOC5	-	-
C.A./C.C. NC	-	K14EG32DC	-	K14E32DCC5	-	-

**DIAMETRO 50 mm**
**50 mm DIAMETER**

	USCITA CAVO / CABLE OUTPUT					
		NON SCHERMATO / UNSHIELDED				
PNP-NO	-	K14EG50PO	-	-	-	-
PNP-NC	-	K14EG50PC	-	-	-	-
PNP-SC	-	K14EG50PSC	-	-	-	-
NPN-NO	-	K14EG50NO	-	-	-	-
NPN-NC	-	K14EG50NC	-	-	-	-
NPN-SC	-	K14EG50NSC	-	-	-	-
C.A. NO	-	K14EG50AO	-	-	-	-
C.A. NC	-	K14EG50AC	-	-	-	-

**Altri prodotti**

- interruttori di prossimità induttivi;
- interruttori di prossimità capacitivi;
- interruttori di prossimità magnetici;
- interruttori di prossimità fotoelettrici;
- interruttori di prossimità ad ultrasuoni;
  
- connettori e cassette di connessione per sensori;
  
- encoder incrementali ed assoluti;
  
- alimentatori / interfacce per sensori;
- alimentatori da rete e da secondario per uso generico;
  
- voltmetri, amperometri, contagiri, visualizzatori a pannello;
- contaimpulsi mono e bidirezionali, contaproduzione, contagiri;
- termometri e termoregolatori
  
- schede logiche programmabili per uso OEM;
  
- pulsanteria e finecorsa meccanici;

***Other products:***

- *inductive proximity switches;*
- *capacitive proximity switches;*
- *magnetic proximity switches;*
- *photo-electric sensors & proximity switches;*
- *ultrasonic proximity switches;*
  
- *connectors & connection boxes for sensor;*
  
- *incremental & absolute encoders;*
  
- *supply units / interfaces for sensors;*
- *power supply units for general purpose;*
  
- *voltmeters, ammeters, revolution counters, panel displays;*
- *counters mono & bi-directional, timers, revolution counters;*
- *thermometers & temperature controllers;*
  
- *OEM programmable logic cards;*
  
- *push-button & mechanical limit switches;*