

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

**SERIE  
*SERIES***

**K01**

***CAPACITIVE PROXIMITY SWITCHES  
THREADED, D.C. AND A.C. TYPE***

**INTERRUTTORI DI PROSSIMITA' CAPACITIVI  
CAPACITIVO FILETTATO IN C.C. E C.A.  
CAPACITIVE PROXIMITY SWITCHES  
THREADED, D.C. AND A.C. TYPE**



**INTERRUTTORI DI PROSSIMITA' CILINDRICI  
CAPACITIVI DIAM. 18 - 22 - 30 - 32 - 50 mm.  
USCITA CAVO O CONNETTORE  
ALIMENTAZIONE IN C.C. 10 ÷ 30 Vdc  
ALIMENTAZIONE IN C.A. 20 ÷ 230 Vca**

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

**COME ORDINARE**
**HOW TO ORDER**

**K01 E G 30 P O -**

SERIE  
SERIES

**K01 = Cilindrici filettati /  
Threaded Plate**

MONTAGGIO  
MOUNTING

**[ - ] = Schermato / Shielded**

**E = Non schermato / Unshielded**

CONNESSIONE  
LINK

**G = Uscita cavo  
Cable output**

**[ - ] = Uscita connettore /  
Terminal with connector**

DIAMETRO SENSORE  
SENSOR DIAMETER

**18 = M18 mm  
22 = M22 mm  
30 = M30 mm  
32 = M32 mm  
50 = M50 mm**

CONNESSIONE  
LINK

**[ - ] = Uscita cavo 2 m  
2 m cable output**

**C4 = Uscita connettore C4  
C4 connector output**

**C5 = Uscita connettore M12  
M12 Connector output**

**Kx = Metraggio cavo a richiesta  
Cable lenght upon request**

USCITA  
OUTPUT

**O = normalmente aperto  
normally open**

**C = normalmente chiuso  
normally closed**

**SC = in scambio - 4 fili  
antivalent - 4 wires**

ELETTRONICA  
ELECTRONICS

**P = PNP**

**N = NPN**

**A = 20 ÷ 230 Vac**

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.

File Name:k01.cdr  
Rev: 0.3

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

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

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

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

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

	<b>M18</b>		
SCHERMATO	•		SHIELDED (FLUSH)
NON SCHERMATO		•	UNSHIELDED (NO FLUSH)
DISTANZA D'INTERVENTO - S <sub>n</sub>	1 ÷ 8 mm	2 ÷ 15 mm	S <sub>n</sub> - SENSING DISTANCE
DISTANZA REALE	± 10% S <sub>n</sub>		REAL DISTANCE
ISTERESI	≤ 10% S <sub>n</sub>		HYSTERESIS
RIPETIBILITÀ	< 10% S <sub>n</sub>		REPEATABILITY
FREQUENZA MASSIMA	100 Hz		MAX. SWITCHING FREQUENCY
TEMPERATURA DI LAVORO	-25°C ÷ +70°C		WORKING TEMPERATURE
MATERIALE CORPO	OTTONE NICHELATO – NICKEL PLATED BRASS		BODY MATERIAL
PROTEZIONE	IP65(con connettore montato/with connector mounted)		PROTECTION RATING
CAVO	3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>		CABLE
CONNETTORE M12 (C5)	C5-C6-C7-L7-C9-L9		(C5) M12 CONNECTOR

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

	<b>M22</b>	
SCHERMATO	•	<i>SHIELDED (FLUSH)</i>
DISTANZA D'INTERVENTO - Sn	2 ÷ 10 mm	<i>SENSING DISTANCE</i>
DISTANZA REALE	± 10% Sn	<i>REAL DISTANCE</i>
ISTERESI	2 ÷ 15% Sn	<i>HYSTERESIS</i>
RIPETIBILITÀ	< 10% Sn	<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	OTTONE NICHELATO – NICKEL PLATED BRASS	<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**

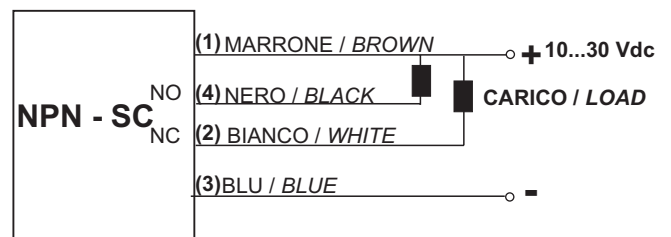
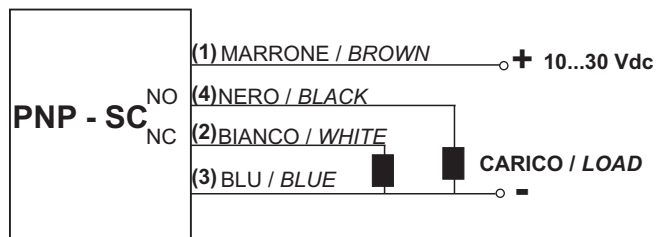
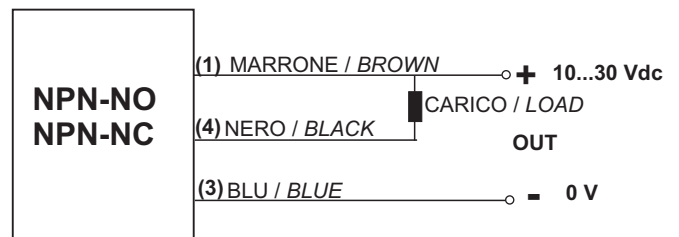
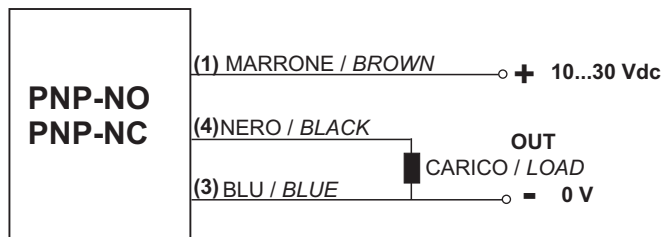
	<b>M30</b>		
SCHERMATO	•		<i>SHIELDED (FLUSH)</i>
NON SCHERMATO		•	<i>UNSHIELDED (NO FLUSH)</i>
DISTANZA D'INTERVENTO - Sn	2 ÷ 20 mm	3 ÷ 30 mm	<i>Sn - SENSING DISTANCE</i>
DISTANZA REALE	± 10% Sn		<i>REAL DISTANCE</i>
ISTERESI	2 ÷ 15% Sn		<i>HYSTERESIS</i>
RIPETIBILITÀ	≤ 10% Sn		<i>REPEATABILITY</i>
FREQUENZA MASSIMA	100 Hz		<i>MAX. SWITCHING FREQUENCY</i>
TEMPERATURA DI LAVORO	-25°C ÷ +70°C		<i>WORKING TEMPERATURE</i>
MATERIALE CORPO	OTTONE NICHELATO – NICKEL PLATED BRASS		<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>
ALTRO CONNETTORE	C4		<i>OTHER CONNECTOR</i>

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

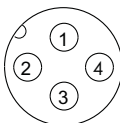
	<b>M32</b>	
SCHERMATO	•	<i>SHIELDED (FLUSH)</i>
DISTANZA D'INTERVENTO - Sn	2 ÷ 20 mm	<i>SENSING DISTANCE</i>
DISTANZA REALE	± 10% Sn	<i>REAL DISTANCE</i>
ISTERESI	2 ÷ 15% Sn	<i>HYSTERESIS</i>
RIPETIBILITÀ	≤ 10% Sn	<i>REPEATABILITY</i>
FREQUENZA MASSIMA	60 Hz	<i>MAX. SWITCHING FREQUENCY</i>
TEMPERATURA DI LAVORO	-25°C ÷ +70°C	<i>WORKING TEMPERATURE</i>
MATERIALE CORPO	OTTONE NICHELATO – NICKEL PLATED BRASS	<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>
ALTRO CONNETTORE	C4	<i>OTHER CONNECTOR</i>

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

	M50		
SCHERMATO	•		SHIELDED (FLUSH)
NON SCHERMATO	•		UNSHIELDED (NO FLUSH)
DISTANZA D'INTERVENTO - Sn	4 ÷ 40 mm	5 ÷ 60 mm	Sn - SENSING DISTANCE
DISTANZA REALE	± 10% Sn		REAL DISTANCE
ISTERESI	2 ÷ 15% Sn		HYSTERESIS
RIPETIBILITÀ	≤ 10% Sn		REPEATABILITY
FREQUENZA MASSIMA	40 Hz	60 Hz	MAX. SWITCHING FREQUENCY
TEMPERATURA DI LAVORO	-25°C ÷ +70°C		WORKING TEMPERATURE
MATERIALE CORPO	OTTONE NICHELATO - NICKEL PLATED BRASS		BODY MATERIAL
PROTEZIONE	IP65 (con connettore montato/with connector mounted)		PROTECTION RATING
CAVO	3x0,35 mm <sup>2</sup> 4x0,35 mm <sup>2</sup>		CABLE

**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



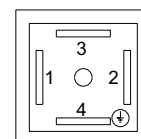
1 + MARRONE / BROWN  
2 NC OUT BIANCO/WHITE  
3 - BLU / BLUE  
4 NO OUT NERO / BLACK

C5-C6-C7-L7 CC/DC

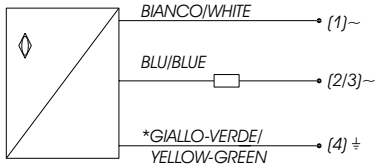
C5-C6-C9-L9 CC/DC

**CONNETTORE C4 (C.C.) / C4 CONNECTOR (D.C.)**

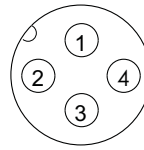
1 + MARRONE / BROWN  
4 OUT NERO / BLACK  
3 - BLU / BLUE



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

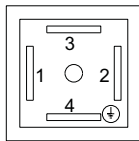
**3/4 FILI C.A. / A.C. 3/4WIRES**


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

**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

**CONNETTORE C4 (C.A.) / C4 CONNECTOR (A.C.)**


- 1 ~ MARRONE / BROWN
- 2/3 ~ BLU/BLUE
- 4 ⊕ GIALLO-VERDE/ YELLOW-GREEN

**DIMENSIONI MECCANICHE**
**MECHANICAL SIZE**
**DIAMETRO 18 mm**
**18 mm DIAMETER**

K01G18_	K0118_C5	K01EG18_	K01E18_C5

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

K01G22_	K0122_C5

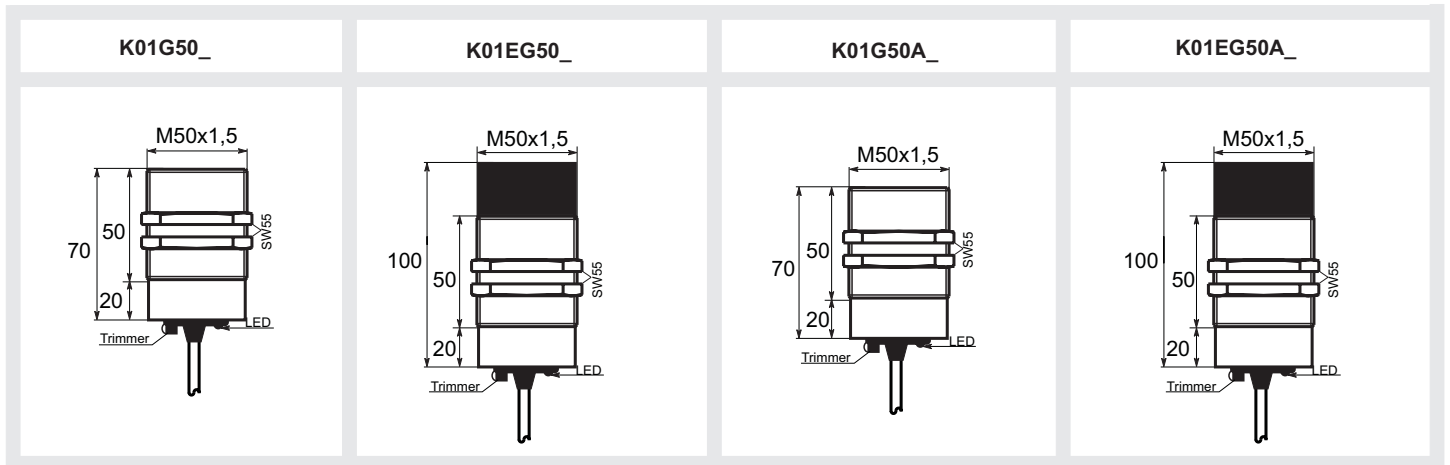
**DIAMETRO 30 mm**
**30 mm DIAMETER**

K01G30_	K0130_C5	K0130_C4	K01EG30_	K01E30_C5	K01E30_C4

K01G30A_	K0130A_C5	K0130A_C4	K01EG30A_	K01E30A_C5	K01E30A_C4

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

K01G32_	K0132_C5	K0132_C4	K01G32A_	K0132A_C5	K0132A_C4

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

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

	USCITA CAVO / CABLE OUTPUT		USCITA CONNETTORE M12 / M12 CONNECTOR OUTPUT	
	SCHERMATO SHIELDED	NON SCHERMATO UNSHIELDED	SCHERMATO SHIELDED	NON SCHERMATO UNSHIELDED
<b>PNP-NO</b>	K01G18PO	K01EG18PO	K0118POC5	K01E18POC5
<b>PNP-NC</b>	K01G18PC	K01EG18PC	K0118PCC5	K01E18PCC5
<b>PNP-SC</b>	K01G18PSC	K01EG18PSC	K0118PSCC5	K01E18PSCC5
<b>NPN-NO</b>	K01G18NO	K01EG18NO	K0118NOC5	K01E18NOC5
<b>NPN-NC</b>	K01G18NC	K01EG18NC	K0118NCC5	K01E18NCC5
<b>NPN-SC</b>	K01G18NSC	K01EG18NSC	K0118NSCC5	K01E18NSCC5

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

	USCITA CAVO / CABLE OUTPUT		USCITA CONNETTORE M12 / M12 CONNECTOR OUTPUT	
	SCHERMATO SHIELDED		SCHERMATO SHIELDED	
<b>PNP-NO</b>	K01G22PO	-	K0122POC5	-
<b>PNP-NC</b>	K01G22PC	-	K0122PCC5	-
<b>PNP-SC</b>	K01G22PSC	-	K0122PSCC5	-
<b>NPN-NO</b>	K01G22NO	-	K0122NOC5	-
<b>NPN-NC</b>	K01G22NC	-	K0122NCC5	-
<b>NPN-SC</b>	K01G22NSC	-	K0122NSCC5	-



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

	USCITA CAVO / CABLE OUTPUT		USCITA CONNETTORE M12 / M12 CONNECTOR OUTPUT		USCITA CONNETTORE C4 / C4 CONNECTOR C4	
	SCHERMATO / SHIELDED	NON SCHERMATO / UNSHIELDED	SCHERMATO / SHIELDED	NON SCHERMATO / UNSHIELDED	SCHERMATO / SHIELDED	NON SCHERMATO / UNSHIELDED
PNP-NO	K01G30PO	K01EG30PO	K0130POC5	K01E30POC5	K0130POC4	K01E30POC4
PNP-NC	K01G30PC	K01EG30PC	K0130PCC5	K01E30PCC5	K0130PCC4	K01E30PCC4
PNP-SC	K01G30PSC	K01EG30PSC	K0130PSCC5	K01E30PSCC5	K0130PSCC4	K01E30PSCC4
NPN-NO	K01G30NO	K01EG30NO	K0130NOC5	K01E30NOC5	K0130NOC4	K01E30NOC4
NPN-NC	K01G30NC	K01EG30NC	K0130NCC5	K01E30NCC5	K0130NCC4	K01E30NCC4
NPN-SC	K01G30NSC	K01EG30NSC	K0130NSCC5	K01E30NSCC5	K0130NSCC4	K01E30NSCC4
C.A. NO	K01G30AO	K01EG30AO	K0130AOC5	K01E30AOC5	K0130AOC4	K01E30AOC4
C.A. NC	K01G30AC	K01EG30AC	K0130ACC5	K01E30ACC5	K0130ACC4	K01E30ACC4

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

	USCITA CAVO / CABLE OUTPUT		USCITA CONNETTORE M12 / M12 CONNECTOR OUTPUT		USCITA CONNETTORE C4 / C4 CONNECTOR C4	
	SCHERMATO / SHIELDED		SCHERMATO / SHIELDED		SCHERMATO / SHIELDED	
PNP-NO	K01G32PO	-	K0132POC5	-	K0132POC4	-
PNP-NC	K01G32PC	-	K0132PCC5	-	K0132PCC4	-
PNP-SC	K01G32PSC	-	K0132PSCC5	-	K0132PSCC4	-
NPN-NO	K01G32NO	-	K0132NOC5	-	K0132NOC4	-
NPN-NC	K01G32NC	-	K0132NCC5	-	K0132NCC4	-
NPN-SC	K01G32NSC	-	K0132NSCC5	-	K0132NSCC4	-
C.A. NO	K01G32AO	-	K0132AOC5	-	K0132AOC4	-
C.A. NC	K01G32AC	-	K0132ACC5	-	K0132ACC4	-

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

	USCITA CAVO / CABLE OUTPUT					
	SCHERMATO / SHIELDED	NON SCHERMATO / UNSHIELDED				
PNP-NO	K01G50PO	K01EG50PO				
PNP-NC	K01G50PC	K01EG50PC				
PNP-SC	K01G50PSC	K01EG50PSC				
NPN-NO	K01G50NO	K01EG50NO				
NPN-NC	K01G50NC	K01EG50NC				
NPN-SC	K01G50NSC	K01EG50NSC				
C.A. NO	K01G50AO	K01EG50AO				
C.A. NC	K01G50AC	K01EG50AC				

**Altri prodotti**

- interruttori di prossimità induttivi;
- interruttori di prossimità capacitivi;
- interruttori di prossimità magnetici;
- interruttori di prossimità fotoelettrici;
  
- 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;*
  
- *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;*