

**INTERRUTTORI DI PROSSIMITA'
INDUTTIVI AD USCITA ANALOGICA**

**SERIE
*SERIES***

B50

***INDUCTIVE PROXIMITY SWITCHES
WITH ANALOG OUTPUT***

INTERRUTTORI DI PROSSIMITA' INDUTTIVI AD USCITA ANALOGICA INDUCTIVE PROXIMITY SWITCHES WITH ANALOG OUTPUT

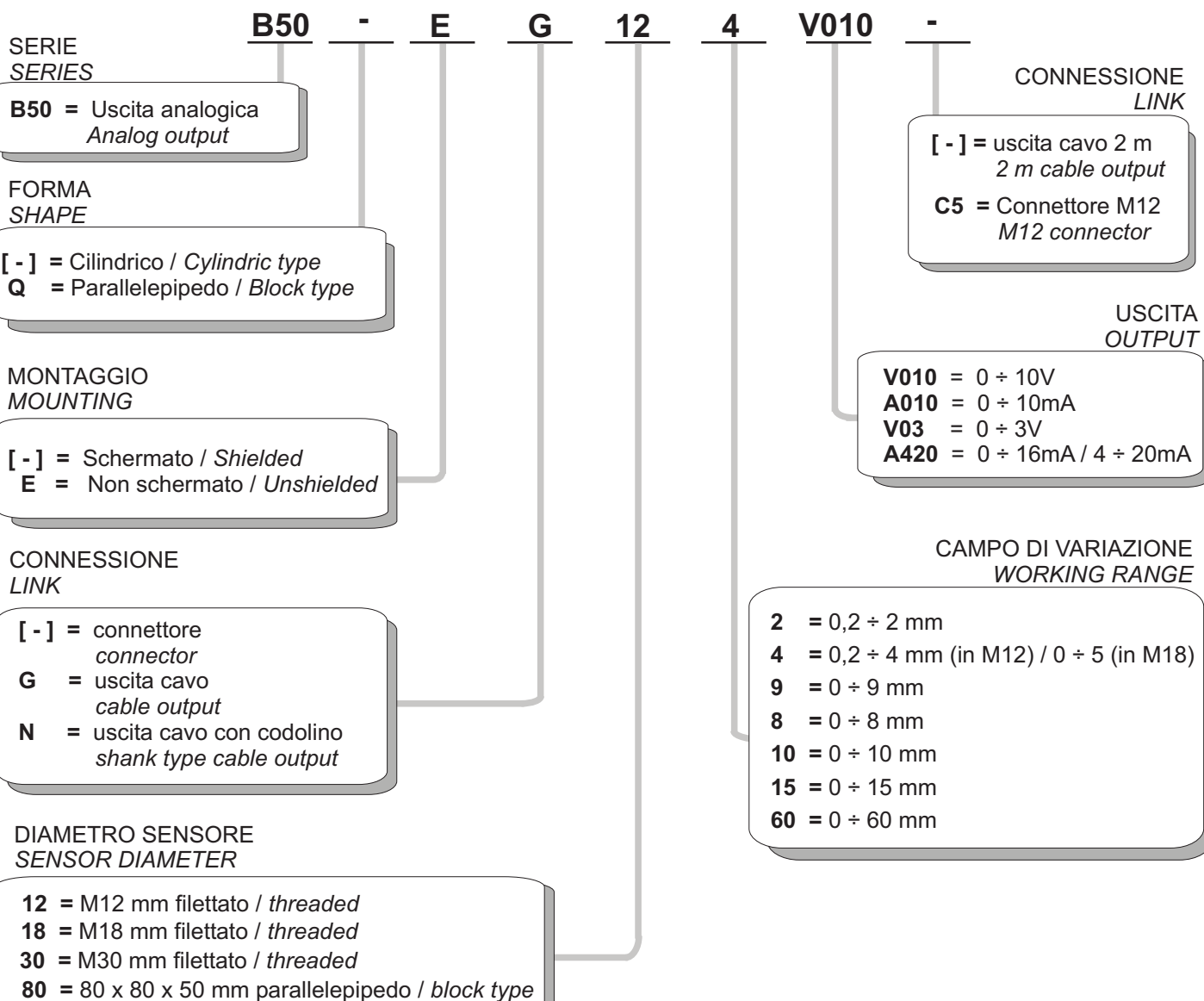


- ⇒ INTERRUTTORI DI PROSSIMITA' INDUTTIVI
CILINDRICI E PARALLELEPIPEDI
AD USCITA ANALOGICA
- ⇒ CUSTODIA IN OTTONE NICHELATO
- ⇒ USCITA CAVO O CONNETTORE M12

- ⇒ INDUCTIVE PROXIMITY SWITCHES
CYLINDRIC OR BLOCK TYPE
WITH ANALOG OUTPUT
- ⇒ NICKEL PLATED BRASS HOUSING
- ⇒ CABLE OUTPUT OR CONNECTOR OUTPUT

COME ORDINARE

HOW TO ORDER



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
USCITA IN TENSIONE 0 ÷ 10 V
VOLTAGE OUTPUT 0 ÷ 10 V

ALIMENTAZIONE	17 ÷ 28 Vdc	SUPPLY VOLTAGE
ONDULAZIONE RESIDUA	≤ 10%	RIPPLE
CARICO	> 100 k Ω	LOAD
ASSORBIMENTO	≤ 15 mA	POWER CONSUMPTION
RIPETIBILITA'	≤ 0,02 mm	REPEATABILITY
PROTEZIONE C.C.	NO	SHORT CIRCUIT PROTECTION
COMPATIBILITA' Elettromagnetica CE	EN60947-5-2/EN61010-1	CE COMPLIANCE
CERTIFICAZIONE	CE	CERTIFICATION

USCITA IN TENSIONE 0 ÷ 3 V
VOLTAGE OUTPUT 0 ÷ 3 V

ALIMENTAZIONE	12 ÷ 24 Vdc	SUPPLY VOLTAGE
ONDULAZIONE RESIDUA	≤ 10%	RIPPLE
CARICO	10 ÷ 100 k Ω	LOAD
ASSORBIMENTO	≤ 15 mA	POWER CONSUMPTION
RIPETIBILITA'	≤ 0,02 mm	REPEATABILITY
PROTEZIONE C.C.	NO	SHORT CIRCUIT PROTECTION
COMPATIBILITA' Elettromagnetica CE	EN60947-5-2/EN61010-1	CE COMPLIANCE
CERTIFICAZIONE	CE	CERTIFICATION

USCITA IN CORRENTE 0 ÷ 10 mA
CURRENT OUTPUT 0 ÷ 10 mA

ALIMENTAZIONE	17 ÷ 28 Vdc	SUPPLY VOLTAGE
ONDULAZIONE RESIDUA	≤ 10%	RIPPLE
CARICO	≤ 1 k Ω	LOAD
ASSORBIMENTO	≤ 15 mA	POWER CONSUMPTION
RIPETIBILITA'	≤ 0,02 mm	REPEATABILITY
PROTEZIONE C.C.	NO	SHORT CIRCUIT PROTECTION
COMPATIBILITA' Elettromagnetica CE	EN60947-5-2/EN61010-1	CE COMPLIANCE
CERTIFICAZIONE	CE	CERTIFICATION

USCITA IN CORRENTE 4 ÷ 20 mA
CURRENT OUTPUT 4 ÷ 20 mA

ALIMENTAZIONE	24 Vdc/ 15 ÷ 30 Vdc *	SUPPLY VOLTAGE
ONDULAZIONE RESIDUA	≤ 10%	RIPPLE
CARICO	≤ 430 Ω / ≤ 410 Ω *	LOAD
ASSORBIMENTO	≤ 15 mA/ 40mA@24Vdc *	POWER CONSUMPTION
RIPETIBILITA'	≤ 0,02 mm	REPEATABILITY
PROTEZIONE C.C.	NO	SHORT CIRCUIT PROTECTION
COMPATIBILITA' Elettromagnetica CE	EN60947-5-2/EN61010-1	CE COMPLIANCE
CERTIFICAZIONE	CE	CERTIFICATION

* SOLO PER B50QE8060A420

USCITA IN CORRENTE 0 ÷ 16 mA
CURRENT OUTPUT 0 ÷ 16 mA

ALIMENTAZIONE	24 Vdc	SUPPLY VOLTAGE
ONDULAZIONE RESIDUA	≤ 10%	RIPPLE
CARICO	≤ 1 k Ω	LOAD
ASSORBIMENTO	≤ 15 mA	POWER CONSUMPTION
RIPETIBILITA'	≤ 0,02 mm	REPEATABILITY
PROTEZIONE C.C.	NO	SHORT CIRCUIT PROTECTION
COMPATIBILITA' Elettromagnetica CE	EN60947-5-2/EN61010-1	CE COMPLIANCE
CERTIFICAZIONE	CE	CERTIFICATION

CARATTERISTICHE TECNICHE
TECHNICAL FEATURES
DIAMETRO 12mm - USCITA 0 ÷ 10 V/0 ÷ 10 mA
12 mm DIAMETER - OUTPUT 0 ÷ 10 V/0 ÷ 10 mA

SCHERMATO	•		<i>SHIELDED</i>
NON SCHERMATO		•	<i>UNSHIELDED</i>
CAMPO DI VARIAZIONE	0,2 ÷ 2 mm	0,2 ÷ 4 mm	<i>WORKING RANGE</i>
CAMPO VARIAZ. LINEARE	0,2 ÷ 2 mm	0,5 ÷ 2,5 mm	<i>LINEAR WORKING RANGE</i>
DERIVA DELLA CURVA	≤ 10%		<i>CURVE BEHAVIOUR</i>
TENSIONE	14 V / 14 mA		<i>VOLTAGE</i>
CORRENTE MASSIMA D'USCITA			<i>MAX. OUTPUT CURRENT</i>
TEMPERATURA DI LAVORO	0°C ÷ +55°C		<i>WORKING TEMPERATURE</i>
MAT.CORPO METALLICO	OTTONE NICHELATO – <i>NICKEL PLATED BRASS</i>		<i>BODY MATERIAL</i>
PROTEZIONE	IP67 (con connettore montato/ <i>with connector mounted</i>)		<i>PROTECTION RATING</i>
CAVO	3x0,35 mm ² – 2m		<i>CABLE</i>
CONNETTORE M12 (C5)	C5-C6-C7-L7		<i>(C5) M12 CONNECTOR</i>
COLLEGAMENTI	1/2		<i>CONNECTIONS</i>

DIAMETRO 18mm - USCITA 0 ÷ 10 V/0 ÷ 10 mA
18 mm DIAMETER - OUTPUT 0 ÷ 10 V/0 ÷ 10 mA

SCHERMATO	•		<i>SHIELDED</i>
NON SCHERMATO		•	<i>UNSHIELDED</i>
CAMPO DI VARIAZIONE	0 ÷ 5 mm	0 ÷ 9 mm	<i>WORKING RANGE</i>
CAMPO VARIAZ. LINEARE	0 ÷ 3 mm	1,5 ÷ 5 mm	<i>LINEAR WORKING RANGE</i>
DERIVA DELLA CURVA	≤ 10%		<i>CURVE BEHAVIOUR</i>
TENSIONE	14 V / 14 mA		<i>VOLTAGE</i>
CORRENTE MASSIMA D'USCITA			<i>MAX. OUTPUT CURRENT</i>
TEMPERATURA DI LAVORO	0°C ÷ +55°C		<i>WORKING TEMPERATURE</i>
MAT.CORPO METALLICO	OTTONE NICHELATO – <i>NICKEL PLATED BRASS</i>		<i>BODY MATERIAL</i>
PROTEZIONE	IP67 (con connettore montato/ <i>with connector mounted</i>)		<i>PROTECTION RATING</i>
CAVO	3x0,35 mm ² – 2m		<i>CABLE</i>
CONNETTORE M12 (C5)	C5-C6-C7-L7		<i>(C5) M12 CONNECTOR</i>
COLLEGAMENTI	1/2		<i>CONNECTIONS</i>

DIAMETRO 18mm - USCITA 0 ÷ 3 V
18 mm DIAMETER - OUTPUT 0 ÷ 3 V

SCHERMATO			<i>SHIELDED</i>
NON SCHERMATO		•	<i>UNSHIELDED</i>
CAMPO DI VARIAZIONE	-	0 ÷ 7 mm	<i>WORKING RANGE</i>
CAMPO VARIAZ. LINEARE	-	0 ÷ 5 mm	<i>LINEAR WORKING RANGE</i>
DERIVA DELLA CURVA	≤ 10%		<i>CURVE BEHAVIOUR</i>
TENSIONE MASSIMA A 12 V	1,5 V		<i>MAX. VOLTAGE AT 12V</i>
TEMPERATURA DI LAVORO	0°C ÷ +55°C		<i>WORKING TEMPERATURE</i>
MAT.CORPO METALLICO	OTTONE NICHELATO – <i>NICKEL PLATED BRASS</i>		<i>BODY MATERIAL</i>
PROTEZIONE	IP67 (con connettore montato/ <i>with connector mounted</i>)		<i>PROTECTION RATING</i>
CAVO CON CODOLINO	3x0,35 mm ²		<i>CABLE SHANK TYPE</i>
CONNETTORE M12 (C5)	C5-C6-C7-L7		<i>(C5) M12 CONNECTOR</i>
COLLEGAMENTI	1		<i>CONNECTIONS</i>

DIAMETRO 18mm - USCITA 4 ÷ 20 mA/0 ÷ 16 mA
18 mm DIAMETER - OUTPUT 4 ÷ 20 mA/0 ÷ 16 mA

SCHERMATO			<i>SHIELDED</i>
NON SCHERMATO		•	<i>UNSHIELDED</i>
CAMPO DI VARIAZIONE	-	0 ÷ 8 mm	<i>WORKING RANGE</i>
CAMPO VARIAZ. LINEARE	-	1 ÷ 6 mm	<i>LINEAR WORKING RANGE</i>
DERIVA DELLA CURVA	< 10%		<i>CURVE BEHAVIOUR</i>
TEMPERATURA DI LAVORO	0°C ÷ +55°C		<i>WORKING TEMPERATURE</i>
MAT.CORPO METALLICO	OTTONE NICHELATO – <i>NICKEL PLATED BRASS</i>		<i>BODY MATERIAL</i>
PROTEZIONE	IP67 (con connettore montato/ <i>with connector mounted</i>)		<i>PROTECTION RATING</i>
CAVO	3x0,35 mm ² – 2 m		<i>CABLE</i>
CONNETTORE M12 (C5)	C5-C6-C7-L7		<i>(C5) M12 CONNECTOR</i>
COLLEGAMENTI	2/3		<i>CONNECTIONS</i>

DIAMETRO 30mm - USCITA 0 ÷ 10 V/0 ÷ 10 mA
30 mm DIAMETER - OUTPUT 0 ÷ 10 V/0 ÷ 10 mA

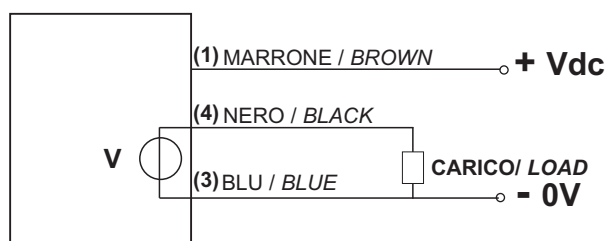
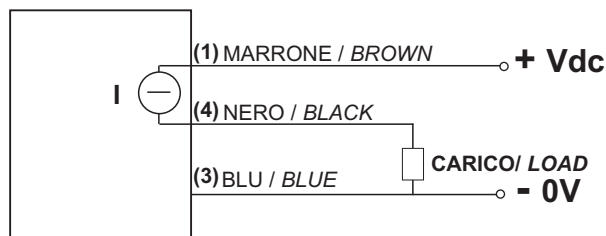
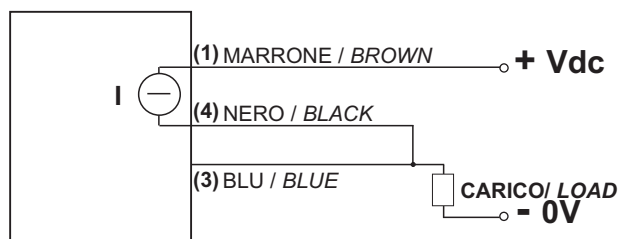
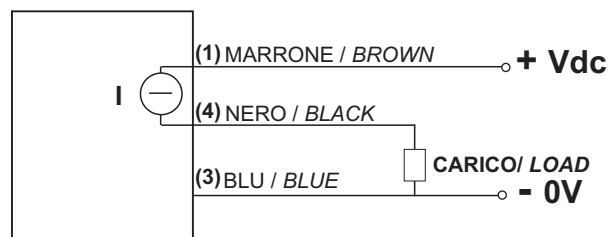
SCHERMATO	•		<i>SHIELDED</i>
NON SCHERMATO		•	<i>UNSHIELDED</i>
CAMPO DI VARIAZIONE	0 ÷ 10 mm	0 ÷ 15 mm	<i>WORKING RANGE</i>
CAMPO VARIAZ. LINEARE	1,5 ÷ 8 mm	1,5 ÷ 10,5 mm	<i>LINEAR WORKING RANGE</i>
DERIVA DELLA CURVA	< 10%		<i>CURVE BEHAVIOUR</i>
TENSIONE	14 V / 14 Ma		<i>VOLTAGE</i>
CORRENTE MASSIMA D'USCITA			<i>MAX. OUTPUT CURRENT</i>
TEMPERATURA DI LAVORO	0°C ÷ +55°C		<i>WORKING TEMPERATURE</i>
MAT.CORPO METALLICO	OTTONE NICHELATO – <i>NICKEL PLATED BRASS</i>		<i>BODY MATERIAL</i>
PROTEZIONE	IP67 (con connettore montato/ <i>with connector mounted</i>)		<i>PROTECTION RATING</i>
CAVO	3x0,35 mm ² – 2 m		<i>CABLE</i>
CONNETTORE M12 (C5)	C5-C6-C7-L7		<i>(C5) M12 CONNECTOR</i>
COLLEGAMENTI	1/2		<i>CONNECTIONS</i>

DIAMETRO 30mm - USCITA 4 ÷ 20 mA/0 ÷ 16 mA
30 mm DIAMETER - OUTPUT 4 ÷ 20 mA/0 ÷ 16 mA

SCHERMATO	•		<i>SHIELDED</i>
NON SCHERMATO			<i>UNSHIELDED</i>
CAMPO DI VARIAZIONE	0 ÷ 10 mm	-	<i>WORKING RANGE</i>
CAMPO VARIAZ. LINEARE	1,5 ÷ 8 mm	-	<i>LINEAR WORKING RANGE</i>
DERIVA DELLA CURVA	< 10%		<i>CURVE BEHAVIOUR</i>
TEMPERATURA DI LAVORO	0°C ÷ +55°C		<i>WORKING TEMPERATURE</i>
MAT.CORPO METALLICO	OTTONE NICHELATO – <i>NICKEL PLATED BRASS</i>		<i>BODY MATERIAL</i>
PROTEZIONE	IP67 (con connettore montato/ <i>with connector mounted</i>)		<i>PROTECTION RATING</i>
CAVO	3x0,35 mm ² – 2 m		<i>CABLE</i>
CONNETTORE M12 (C5)	C5-C6-C7-L7		<i>(C5) M12 CONNECTOR</i>
COLLEGAMENTI	2/3		<i>CONNECTIONS</i>

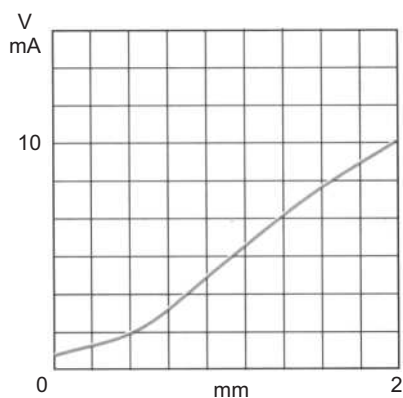
PARALLELEPIPEDO - USCITA 4 ÷ 20 mA / 0 ÷ 10 V
BLOCK TYPE - OUTPUT 4 ÷ 20 mA / 0 ÷ 10 V

SCHERMATO			<i>SHIELDED</i>
NON SCHERMATO		•	<i>UNSHIELDED</i>
CAMPO DI VARIAZIONE	-	0 ÷ 60 mm	<i>WORKING RANGE</i>
CAMPO VARIAZ. LINEARE	-	9 ÷ 40 mm	<i>LINEAR WORKING RANGE</i>
DERIVA DELLA CURVA		< 10%	<i>CURVE BEHAVIOUR</i>
TEMPERATURA DI LAVORO		0°C ÷ +55°C	<i>WORKING TEMPERATURE</i>
MAT.CORPO METALLICO		PVC	<i>BODY MATERIAL</i>
PROTEZIONE		IP67	<i>PROTECTION RATING</i>
CAVO		3x0,35 mm ² – 2 m	<i>CABLE</i>
COLLEGAMENTI		4	<i>CONNECTIONS</i>

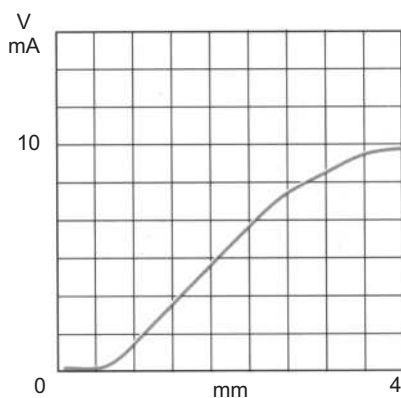
COLLEGAMENTI
CONNECTIONS
1) USCITA IN TENSIONE 0 ÷ 10 V/0 ÷ 3 V VOLTAGE OUTPUT

2) USCITA IN CORRENTE 0 ÷ 10mA/0 ÷ 16 mA a 3 FILI / 0 ÷ 10mA/0 ÷ 16 mA CURRENT OUTPUT 3 wires

3) USCITA IN CORRENTE 4 ÷ 20mA a 2 FILI / 4 ÷ 20mA CURRENT OUTPUT 2 wires

4) USCITA IN CORRENTE 4 ÷ 20mA a 3 FILI / 4 ÷ 20mA CURRENT OUTPUT 3 wires


CURVE D'USCITA
OUTPUT CURVES

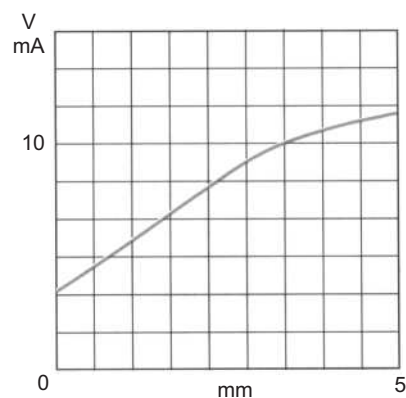
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B50G122A010
B50122V010C5
B50122A010C5



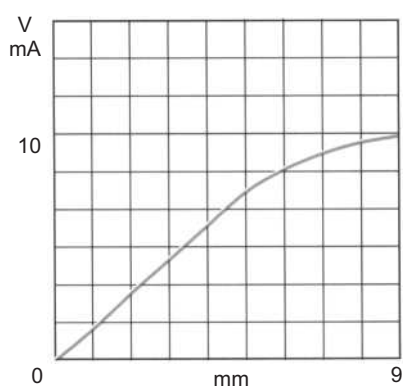
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B50EG124A010
B50E124V010C5
B50E124A010C5



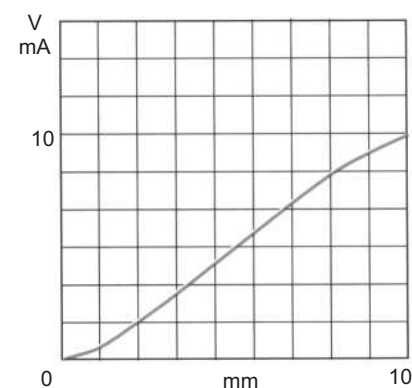
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B50184A010C5



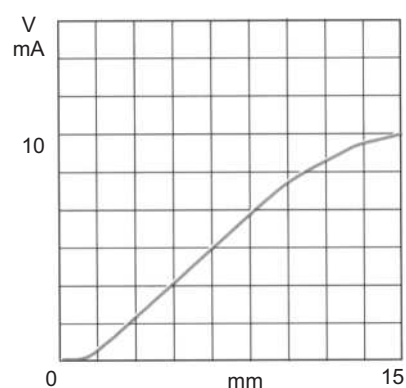
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B50E189V010C5
B50E189A010C5



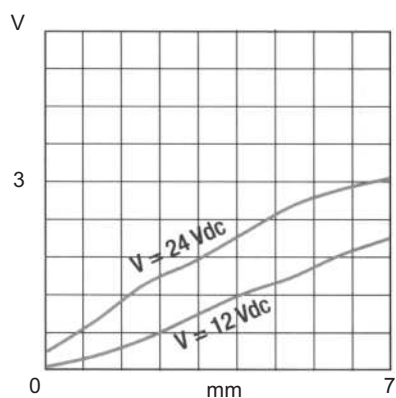
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B503010V010C5
B503010A010C5



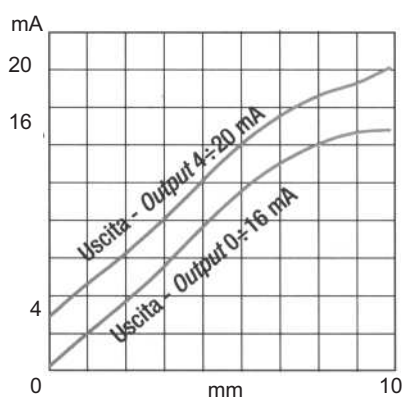
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B50E3015A010C5



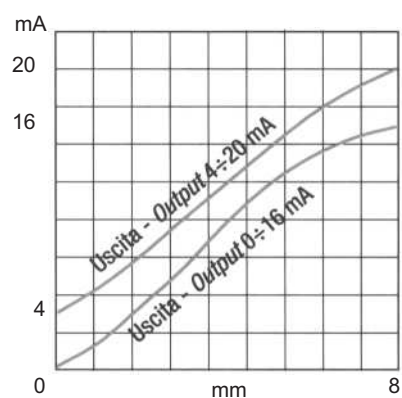
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B50187V03C5



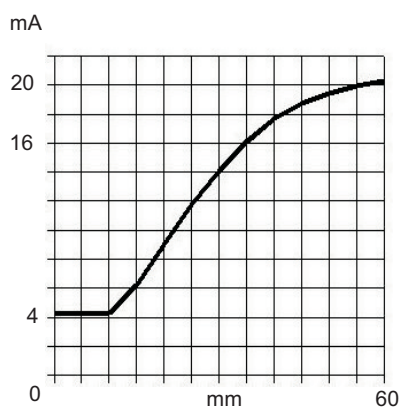
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B50E3010A420C5



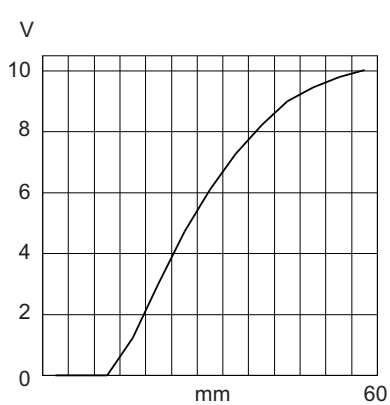
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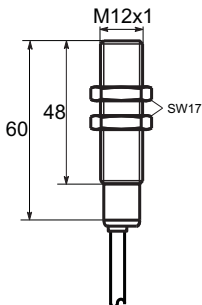
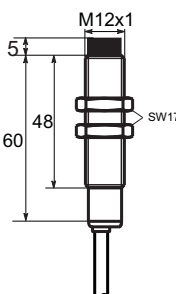
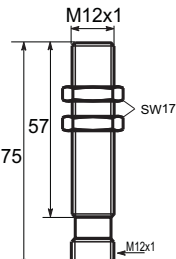
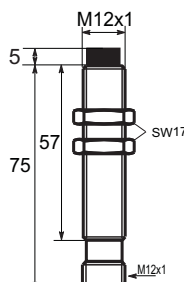
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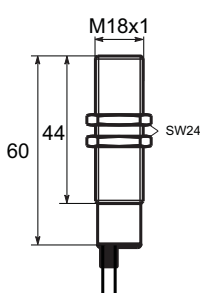
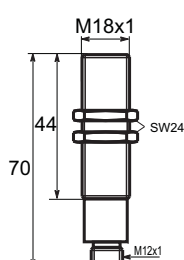
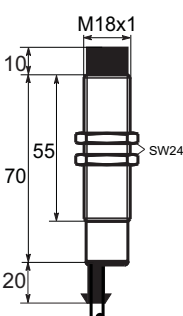
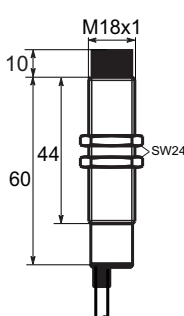
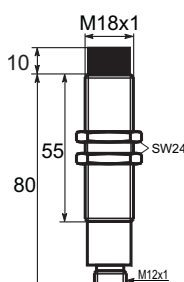
B50QE8060V010
B50QE8060V010C5



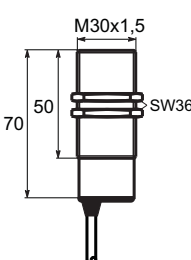
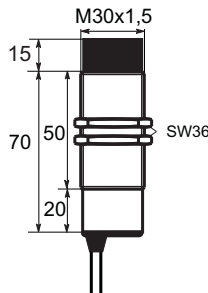
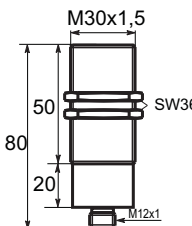
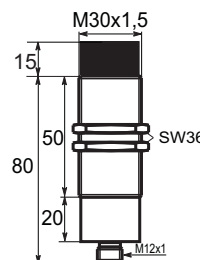
DIMENSIONI MECCANICHE
MECHANICAL SIZE
DIAMETRO 12 mm
12 mm DIAMETER

B50G122_	B50EG124_	B50122_C5	B50E124_C5
			

DIAMETRO 18 mm
18 mm DIAMETER

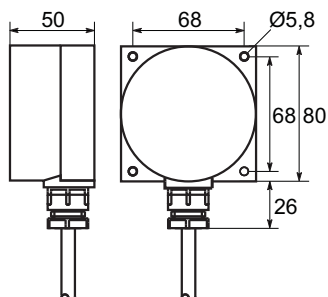
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DIAMETRO 30 mm
30 mm DIAMETER

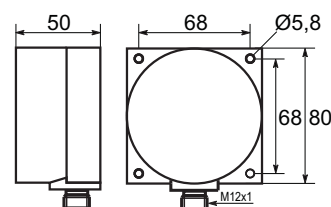
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PARALLELEPIPEDO
BLOCK TYPE

B50QE8060A420
B50QE8060V010



B50QE8060A420C5
B50QE8060V010C5


ELENCO PRODOTTI
PRODUCTS LIST
DIAMETRO 12 mm
12 mm DIAMETER

	USCITA CAVO / CABLE OUTPUT		USCITA CONNETTORE / CONNECTOR OUTPUT	
	SCHERMATO SHIELDED	NON SCHERMATO UNSHIELDED	SCHERMATO SHIELDED	NON SCHERMATO UNSHIELDED
USCITA OUTPUT 0 ÷ 10 V	B50G122V010	B50EG124V010	B50122V010C5	B50E124V010C5
USCITA OUTPUT 0 ÷ 10 mA	B50G122A010	B50EG124A010	B50122A010C5	B50E124A010C5

DIAMETRO 18 mm
18 mm DIAMETER

	USCITA CAVO / CABLE OUTPUT		USCITA CONNETTORE / CONNECTOR OUTPUT	
	SCHERMATO SHIELDED	NON SCHERMATO UNSHIELDED	SCHERMATO SHIELDED	NON SCHERMATO UNSHIELDED
USCITA OUTPUT 0 ÷ 10 V	B50G184V010	B50EG189V010	B50184V010C5	B50E189V010C5
USCITA OUTPUT 0 ÷ 10 mA	B50G184A010	B50EG189A010	B50184A010C5	B50E189A010C5
USCITA OUTPUT 0 ÷ 3 V	-	B50EN187V03*	-	B50E187V03C5
USCITA OUTPUT 4 ÷ 20 mA	-	B50EG188A420	-	B50E188A420C5
USCITA OUTPUT 0 ÷ 16 mA**	-		-	

* VERSIONE CAVO CON CODOLINO IN PLASTICA / PLASTIC CABLE SHANK TYPE VERSION

** STESSO PRODOTTO: CON COLLEGAMENTO A 3 FILI (SCHEMA 2) USCITA 0 ÷ 16mA
CON COLLEGAMENTO A 2 FILI (SCHEMA 3) USCITA 4 ÷ 20 mA
SAME PRODUCT: 3 WIRES CONNECTION (SCHEMA 2) 0 ÷ 16 mA OUTPUT
2 WIRES CONNECTION (SCHEMA 3) 4 ÷ 20 mA OUTPUT

DIAMETRO 30 mm
30 mm DIAMETER

	USCITA CAVO / <i>CABLE OUTPUT</i>		USCITA CONNETTORE / <i>CONNECTOR OUTPUT</i>	
	SCHERMATO <i>SHIELDED</i>	NON SCHERMATO <i>UNSHIELDED</i>	SCHERMATO <i>SHIELDED</i>	NON SCHERMATO <i>UNSHIELDED</i>
USCITA <i>OUTPUT</i> 0 ÷ 10 V	B50G3010V010	B50EG3015V010	B503010V010C5	B50E3015V010C5
USCITA <i>OUTPUT</i> 0 ÷ 10 mA	B50G3010A010	B50EG3015A010	B503010A010C5	B50E3015A010C5
USCITA <i>OUTPUT</i> 4 ÷ 20 mA USCITA <i>OUTPUT</i> 0 ÷ 16 mA**	B50G3010A420	-	B503010A420C5	-

**** STESSO PRODOTTO: CON COLLEGAMENTO A 3 FILI (SCHEMA 2) USCITA 0 ÷ 16mA**
CON COLLEGAMENTO A 2 FILI (SCHEMA 3) USCITA 4 ÷ 20 mA
SAME PRODUCT: 3 WIRES CONNECTION (SCHEMA 2) 0 ÷ 16 mA OUTPUT
2 WIRES CONNECTION (SCHEMA 3) 4 ÷ 20 mA OUTPUT

PARALLELEPIPEDO
BLOCK TYPE

	USCITA CAVO / <i>CABLE OUTPUT</i>		USCITA CONNETTORE / <i>CONNECTOR OUTPUT</i>	
	SCHERMATO <i>SHIELDED</i>	NON SCHERMATO <i>UNSHIELDED</i>	SCHERMATO <i>SHIELDED</i>	NON SCHERMATO <i>UNSHIELDED</i>
USCITA <i>OUTPUT</i> 0 ÷ 10 V	-	B50QE8060V010	-	B50QE8060V010C5
USCITA <i>OUTPUT</i> 4 ÷ 20 mA	-	B50QE8060A420	-	B50QE8060A420C5

CON COLLEGAMENTO A 3 FILI (SCHEMA 4) USCITA 4 ÷ 20mA
3 WIRES CONNECTION (SCHEMA 4) 4 ÷ 20 mA OUTPUT

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;*