Amplified Inductive Sensors Ø 12

INFRA ELECTRONIC SENSORS

AMPLIFIED INDUCTIVE SENSORS INCREASED RANGE 12÷30 VDC 4 WIRES PROGRAMMABLE OUTPUT

- *Four-wire sensors*
- *Increased range, shielded, not shielded*
- *Range, 4 mm to 8 mm*
- *Programmable outputs: NPN/PNP, NO or NC*
- *Cable or M12 quick connect models*
- *Nickel plated brass*
- *Operation LED*
- *200 mA max output*

ISM Series

New

Codice di identificazione

ISM 01 D K L * EX (1)

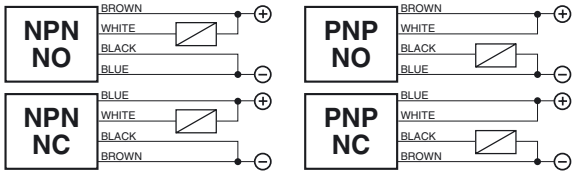
- ISM — SERIES ISM
- 01 — PROGRAMMABLE OUTPUT - Shielded
- 02 — PROGRAMMABLE OUTPUT - Not shielded
- D — INCREASED RANGE
- K — CONNECTOR OUTPUT M12
- L — LONG TAIL
- EX — ATEX GROUP II CAT. 3D

* Long tail option not available with option "K".

	SHIELDED	NOT SHIELDED
NOMINAL SWITCHING DISTANCE (Sn)	**4 mm**	**8 mm**
NOMINAL VOLTAGE	12 ÷ 30 VDC (-15/+10%)	
RESIDUAL RIPPLE	≤ 10%	
HYSTERESIS	< 10%	
OUTPUT	NPN or PNP (may be selected)	
CONTACT	NO or NC (may be selected)	
MAX. CURRENT OUTPUT	200 mA	
ABSORPTION AT 24 VDC	< 1.2 mA	
VOLTAGE DROP (Sensor ON)	< 1,8 V (I = 100 mA)	
OPERATION LED	Yellow	
SWITCHING FREQUENCY	500 Hz	
START UP DELAY	≤ 50 mS	
REPEATABILITY	≤ 3%	
SHORT CIRCUIT PROTECTION	Present (self-resetting)	
ELECTRIC PROTECTIONS	Against polarity reversal - inductive loads	
TEMPERATURE LIMITS	- 25 ÷ +70 °C	
PROTECTION DEGREE	IP 67	
CABLE LENGTH	2 m	
CABLE SECTION	4 x 0.25 mm²	
HOUSING MATERIAL	Nickel-plated brass	
WEIGHT - Cable output -	110 g	
WEIGHT - K connector output -	60 g	

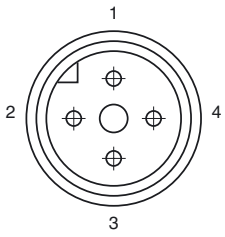
(1) Device marking Ex II 3D IP67 T6X.

Wiring diagrams



Thanks to the output status which is not paired with the rest of the circuit, the sensors of this kind of availability give enormous advantages, such as the possibility of obtaining the four output configurations (NPN-NO, NPN-NC, PNP-NO, PNP-NC,) on the same model.

Connection with connector M12 (K)



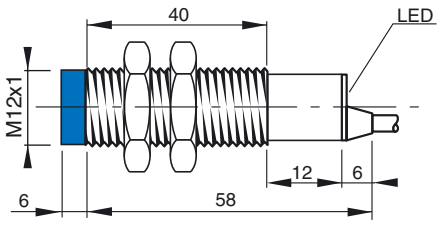
View of quadripole male connector.

CONTACTS CONFIGURATION

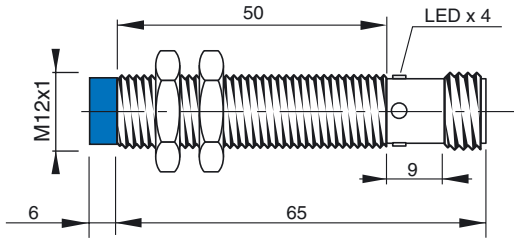
Output	Contacts numbers			
	1	2	3	4
NPN NO	+	NO	−	−
NPN NC	−	NC	+	−
PNP NO	+	+	−	NO
PNP NC	−	+	+	NC

Dimensions (mm)

CONFIGURATION WITH CABLE



CONFIGURATION WITH CONNECTOR K



Note: the front part in blue refers to not shielded models.

INCREASED RANGE