

AMPLIFIED INDUCTIVE SENSORS

Ø 30

10÷30 V DC - 3 WIRES NPN OR PNP OUTPUT

- Range, 10mm to 15mm - shielded, not shielded
- Short housing models
- Cable or M12 quick connect models
- Operation LED
- Stainless steel housing

INFRA

IS Series

IDENTIFICATION CODE

IS | I (1) | 47 | K | S | L (2) | EX (3)(4)

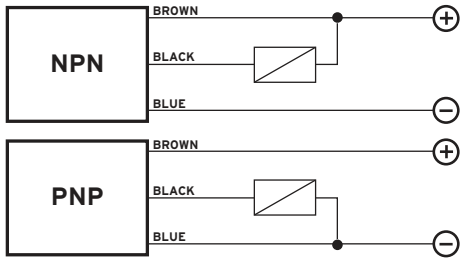
- SERIES IS
- STAINLESS STEEL HOUSING
- NPN NO output — 47 (SHIELDED) / 73 (NOT SHIELDED)
- NPN NC output — 48 / 74
- PNP NO output — 50 / 76
- PNP NC output — 51 / 77
- CONNECTOR OUTPUT M12
- CONFIGURATION WITH SHORT HOUSING
- LONG TAIL
- ATEX GROUP II CAT. 3D

(1) Available only on short housing configuration.
(2) Long tail option not available with option "K" and "S".
(3) Available only on short stainless steel housing.

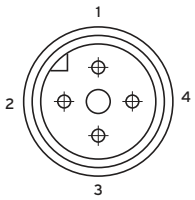
	SHIELDED	NOT SHIELDED
NOMINAL SWITCHING DISTANCE (Sn)	10 mm	15 mm
NOMINAL VOLTAGE	10 ÷ 30 VDC (-15 / +10%)	
RESIDUAL RIPPLE	≤ 10%	
HYSTERESIS	< 10%	
MAX. OUTPUT CURRENT	200 mA	
RESIDUAL CURRENT	< 10 mA	
VOLTAGE DROP	< 1.8 V (I = 100 mA)	
OPERATION LED	Yellow	
SWITCHING FREQUENCY	300 Hz	
START UP DELAY	≤ 50 ms	
REPEATABILITY	≤ 3%	
SHORT CIRCUIT PROTECTION	Present (self-resetting)	
ELECTRIC PROTECTIONS	Against polarity reversal - inductive loads	
TEMPERATURE LIMITS	- 25 ÷ +60 °C	
PROTECTION DEGREE	IP 67	
CABLE LENGTH	2 m	
CABLE SECTION	3 x 0,25 mm²	
HOUSING MATERIAL	Nickel-plated brass	
WEIGHT - Cable output -	210 g	
WEIGHT - K connector output -	170 g	

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

WIRING DIAGRAMS



CONNECTION WITH CONNECTOR M12 (K)



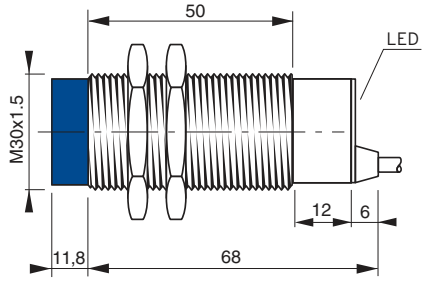
View of quadripole male connector

CONTACTS CONFIGURATION

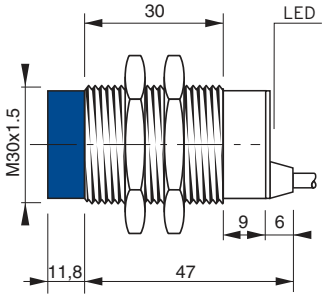
Available	Contacts numbers			
	1	2	3	4
(NO or NC)	+		−	NO/NC

DIMENSIONS (mm)

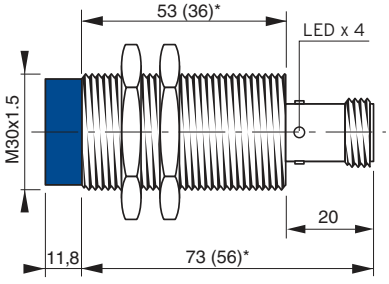
CONFIGURATION WITH CABLE



SHORT HOUSING



CONFIGURATION WITH CONNECTOR K



(*) The dimensions into brackets refer to short housing models
Note: the front part in blue refers to not shielded models

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