



## AMPLIFIED INDUCTIVE SENSORS

Ø 18

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

- Range, 5mm to 8mm - shielded, not shielded
- Short housing models
- Cable or M12 quick connect models
- Operation LED
- Stainless steel housing

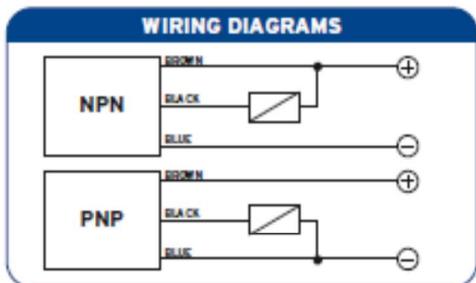


IS Series

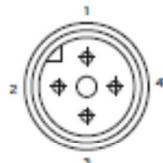


IDENTIFICATION CODE							
IS	I <sup>(1)</sup>	41	K	S	L <sup>(2)</sup>	EX <sup>(3)</sup>	
SERIES IS							
STAINLESS STEEL HOUSING							
NPN NO output	41		67				
NPN NC output	42	NOT SHIELDED	68				
PNP NO output	44	SHIELDED	70				
PNP NC output	45		71				
CONNECTOR OUTPUT M12							
CONFIGURATION WITH SHORT HOUSING							
LONG TAIL							
ATEX GROUP II CAT. 3D							
(1) Available only on short housing configurations.							
(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)	5 mm	8 mm					
NOMINAL VOLTAGE	10 ÷ 30 VDC (-15 / +10%)						
RESIDUAL RIPPLE	≤ 10%						
HYSTERESIS	< 10%						
MAX. OUTPUT CURRENT	200 mA						
RESIDUAL CURRENT	< 10 mA						
VOLTAGE DROP (Sensor ON)	< 1.8 V (I = 100 mA)						
OPERATION LED	Yellow						
SWITCHING FREQUENCY	1000 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 mm <sup>2</sup>						
HOUSING MATERIAL	Nickel-plated brass						
WEIGHT - Cable output -	145 g						
WEIGHT - K connector output -	95 g						

<sup>(4)</sup> Device marking II 3D IP67 T6X.



### CONNECTION WITH CONNECTOR M12 (K)



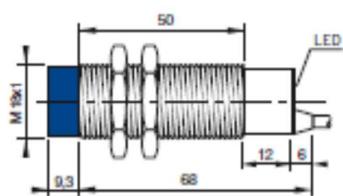
View of quadripole male connector

### CONTACTS CONFIGURATION

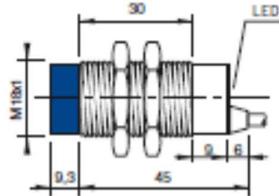
Available	Contacts numbers			
	1	2	3	4
(NO or NC)	+		—	NO/NC

### DIMENSIONS (mm)

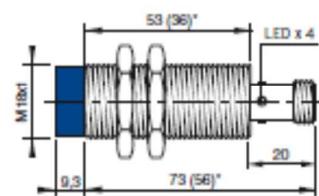
#### CONFIGURATION WITH CABLE



#### SHORT HOUSING



#### CONNECTOR K



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

INDUCTIVE