



## 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)(4)</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						

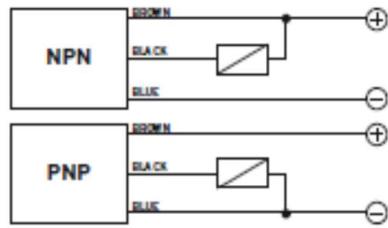
ATEX GROUP II CAT. 3D

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

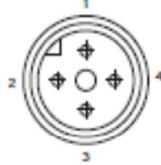
	SHIELDED	NOT SHIELDED
NOMINAL SWITCHING DISTANCE (Sn)	5 mm	8 mm
NOMINAL VOLTAGE	10-30 VDC (-15/+10%)	
RESIDUAL RIPPLE	≤ 10%	
HYSTERESIS	< 10%	
MAX. OUTPUT CURRENT	200 mA	
RESIDUAL CURRENT	< 10 mA	
VOLTAGE DROP (Sensor ON)	< 1.8 V (I = 100 mA)	
OPERATION LED	Yellow	
SWITCHING FREQUENCY	1000 Hz	
START 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.

### WIRING DIAGRAMS



### CONNECTION WITH CONNECTOR M12 (K)



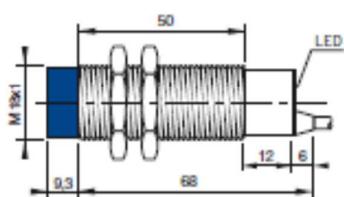
View of quadripole male connector

### CONTACTS CONFIGURATION

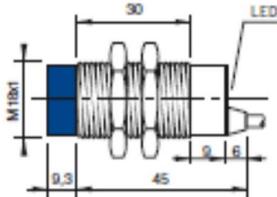
Available	Contacts numbers			
	1	2	3	4
(NO or NC)	+		-	NO/NC

### DIMENSIONS (mm)

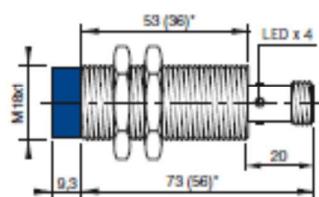
#### CONFIGURATION WITH CABLE



#### SHORT HOUSING



#### CONNECTOR K



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