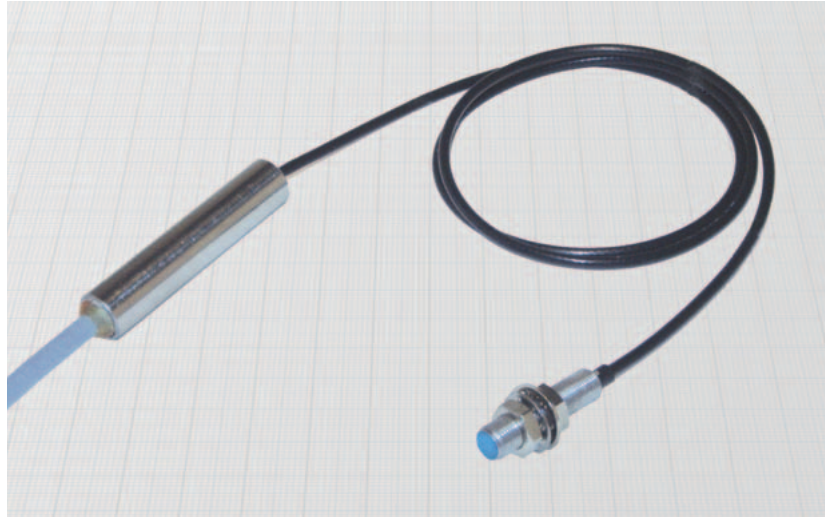


CYLINDRICAL INDUCTIVE SENSORS IN METAL HOUSING

- Amplified in d.c. 3 wires
- High precision
- Switching hysteresis < 1 μm
- Cable output




General Features:

This unique sensor enables the detection of metallic targets with extremely high precision without contact. By using an implemented software algorithm and a laser working process it has a very stable and precise switching point with a hysteresis lower than 1 μm .

Applications:

- Semiconductors industry
- Quality control instruments
- High precision mechanical devices
- Calibration equipments

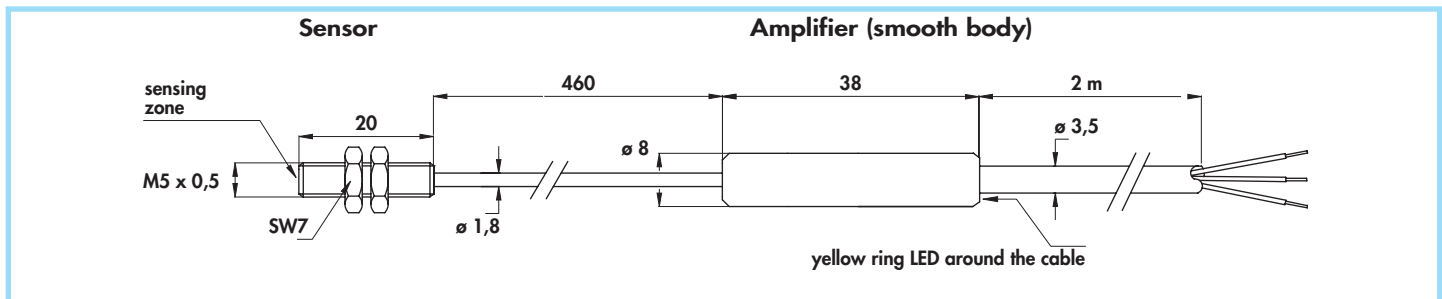
Technical data:

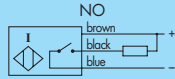
- Supply voltage (U_B): 5 \div 13 Vdc
- Consumption: \leq 10 mA
- Voltage drop ($I_o = 10$ mA): \leq 0.5 V
- Voltage drop ($I_o = 100$ mA): \leq 1 V
- Output polarity: NPN open collector
- Output logic: normally open
- Repeat accuracy (R): $< \pm 2$ μm
- Switch hysteresis (H): < 1 μm
- Temperature range: 10 \div 40°C
- Degree of protection: IP67
- Cable conductor cross section: 0,22 mm²
- Electromagnetic compatibility (EMC) according to EN60947-5-2 
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Diameter	M5 x 0,5	
Nut	Size	SW7
	Thickness mm	2,5
Max tightening torque Nm	2	

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C
- Housing sensor and amplifier: stainless steel



Flush mounting Non flush mounting	Cable diameter	Sensor diameter	Amplifier diameter	Rated operational current (I_o)	Max switching frequency (f)	Nominal sensing distance (S_n) \pm 10%	ORDERING REFERENCES	
							NPN (negative switching)	
	mm	mm	mm	mA	Hz	mm		
•	3,5	M5 x 0,5	8	100	100	0,9	IPS05/4608KS	