

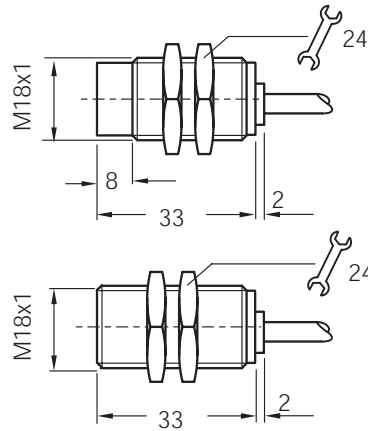


Inductive proximity sensors

IM 18 series, sensing range 5 / 8 mm

NAMUR, metal housing

Dimensions in mm



Features

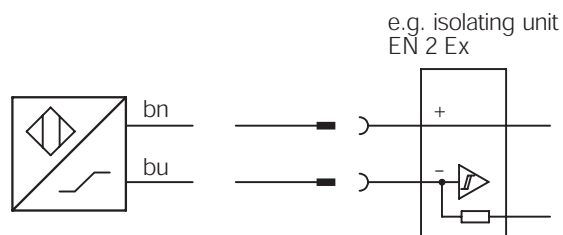


- Can be installed flush or non-flush in metal
- NAMUR to EN 50227
- High switching frequency
- Robust brass housing, nickel-plated, with fine thread M18 x 1 mm
- Enclosure rating IP 67
- **PTB classification for division 1 areas**
EEx ia IIC T6

Accessories

Isolating unit EN2Ex
Mounting bracket

Connection diagram



Wire colour			Assignment
bn	braun	brown	+ V DC
bu	blau	blue	- V DC

Electrical and mechanical data

Operating voltage U_b	5 ... 25 V DC	Short-circuit protected	yes
Rated voltage U_n	8.2 V DC	Reverse polarity protected	yes
Power consumption, attenuated	≤ 1.0 mA	Enclosure rating to EN 60529	IP 67
Power consumption, unattenuated	≥ 2.2 mA	Shock and vibration stress	30 g, 11 ms 10 to 55 Hz, 1 mm
Internal capacitance	≤ 230 nF (flush) ≤ 240 nF (non-flush)	Ambient temperature T_a	- 25 ... + 70 °C
Internal inductance	≤ 60 μ H	Housing material	Brass, nickel-plated, plastic
Cable resistance	≤ 50 Ω	Tightening torque	35 Nm
Temperature drift	$\pm 10\%$ of S_r	Connection cable	PVC, 2 x 0.34 mm ² , blue
EMC	to EN 60 947-5-2		

Selection table

Sensing range S_n mm	Installation in metal	Version	Output function	Switching frequency f in Hz	Connection	Type	Order number
5		NAMUR		720	Cable 2 m	IM18-05B-N-ZW0	6021126
8		NAMUR		300	Cable 2 m	IM18-08N-N-ZW0	6021127