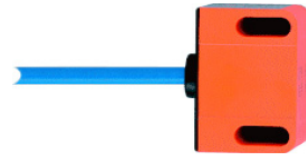


Limit Switch Inductive sensor Type IFM NN5009

- IND2004DN/1D/1G/2G
- Inductive sensor
- Cable
- ATEX approval
- Group II, category 1D
- Group II, category 1G/2G
- Sensing range 4 mm
- non-flush mountable

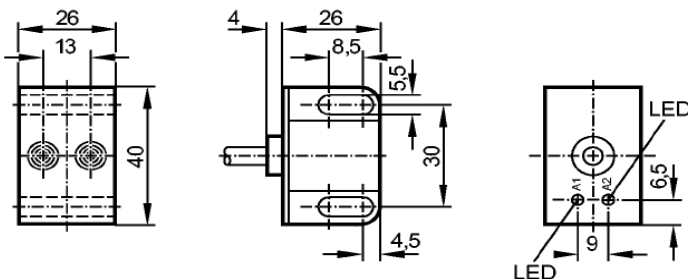


TECHNICAL DATA

Electrical design	Connection to certified intrinsically safe circuits with the max. values $U = 15 \text{ V} / I = 50 \text{ mA} / P = 120 \text{ mW}$
Output	2 x normally closed
Nominal voltage (V)	8.2 DC (1k Ω)
Supply voltage (V)	7.5...15 DC
Current consumption (mA)	< 1 *
Internal capacitance (nF)	< 140 **
Internal inductance (μH)	< 130 **
Real sensing range (mm)	$4 \pm 10 \%$
Switch-point drift (% of Sr)	-10...10
Hysteresis (% of Sr)	1...15
Switching frequency (Hz)	1800
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Ambient temperature ($^{\circ}\text{C}$)	-20...80
Protection	IP 67, III
Shock / vibration resistance	30g (11 ms) / 10-55 Hz (1 mm)
EMC	EN 60947-5-6
Approval	DMT 02 ATEX E028 BVS 04 ATEX E153 TIIS TC17612
Marking of the unit	II 1D Ex iaD 20 T 90 $^{\circ}\text{C}$ Ta: -20...70 $^{\circ}\text{C}$ II 1G Ex ia IIB T6 Ta: -20...70 $^{\circ}\text{C}$ II 1G Ex ia IIB T5 Ta: -20...80 $^{\circ}\text{C}$ II 2G Ex ia IIC T6 Ta: -20...70 $^{\circ}\text{C}$ II 2G Ex ia IIC T5 Ta: -20...80 $^{\circ}\text{C}$
Housing materials	housing: PBT; cover: PC
Function display Switching status	LED 2 x yellow
Connection	silicone cable / 2 m; 4 x 0.34 mm 2
Weight (kg)	0.156



DIMENSION



WIRING

