efector100

ifm electronic

Inductive sensors
NAMUR EN 60947-5-6

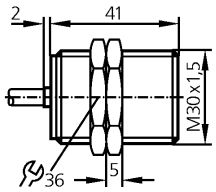
NI5001

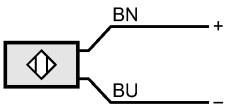
II-2010-N/1D/2G

Plastic thread M30 x 1.5
Cable

ATEX approval
Group II, category 1D
Group II, category 2G

Sensing range 10mm [f]
flush mountable



Electrical design Output	connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW normally closed
Nominal voltage [V]	8.2 DC (1kΩ)
Supply voltage when used outside the hazardous area [V]	7.5...30 DC
Current rating when used outside the hazardous area [mA]	< 30
Current consumption [mA]	< 1 *)
Internal capacitance [nF]	< 145
Internal inductance [µH]	< 140
Real sensing range [mm]	10 ± 10 %
Switch-point drift [% of Sr]	-10...10
Hysteresis [% of Sr]	1...15
Switching frequency [Hz]	450
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Operating temperature [°C]	-20...70
Protection	IP 67, II
Shock / vibration resistance	30g (11 ms) / 10-55 Hz (1 mm)
EMC	EN 60947-5-6
Approval	PTB 01 ATEX 2191 BVS 04 ATEX E153 TIIS TC16108
Marking of the unit	II 2G EEx ia IIC T6 Ta: -20...70°C II 1D Ex iaD 20 T 90°C Ta: -20...70°C
Housing material	PBT
Connection	PVC cable / 2 m; 2 x 0.5 mm²
Remarks	*) damped; (> 2.1 mA undamped)
Accessories (included)	2 lock nuts

Wiring
Core colours
BN brown
BU blue