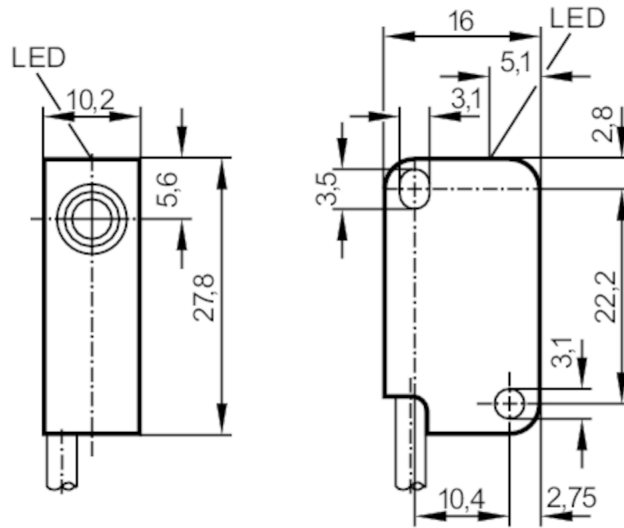




Inductive NAMUR sensor

IS-2002-N/1D/1G/2G



Electrical data

Connection to switching amplifiers	yes
Switching amplifiers	connection to certified intrinsically safe circuits with the max. values: $U = 15 \text{ V}$ / $I = 50 \text{ mA}$ / $P = 120 \text{ mW}$
Nominal voltage DC [V]	8.2; (1k Ω)
Supply voltage DC [V]	7.5...30; (when used outside the hazardous area)
Current consumption [mA]	< 1; (disabled; conductive: > 2,1)
Protection class	III

Outputs

Electrical design	NAMUR
Output function	normally closed
Permanent current rating of switching output DC [mA]	30; (when used outside the hazardous area)
Switching frequency DC [Hz]	800

Detection zone

Sensing range [mm]	2
Real sensing range S_r [mm]	$2 \pm 10 \%$

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]	1...15
Switch point drift [% of S_r]	-10...10

Operating conditions

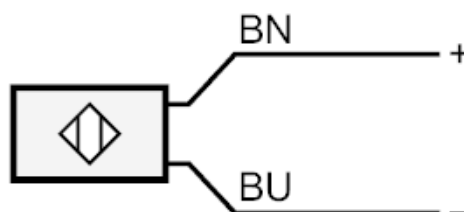
Ambient temperature [°C]	-20...70
Protection	IP 67



Inductive NAMUR sensor

IS-2002-N/1D/1G/2G

Tests / approvals		
Approval	PTB 02 ATEX 2217; BVS 04 ATEX E153; IECEx BVS 06.0003	
ATEX marking	II 1G Ex ia IIB T6 Ga Ta: -20...70° C	
	II 2G Ex ia IIC T6 Gb Ta: -20...70° C	
	II 1D Ex ia IIIC T90° C Da Ta: -20...70° C	
EMC	EN 60947-5-6	
Shock/vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)	
MTTF	[years]	4459
Safety classification		
Max. internal capacitance	[nF]	80
Max. internal inductance	[μH]	110
Mechanical data		
Weight	[g]	78.8
Housing	rectangular	
Mounting	flush mountable	
Dimensions	[mm]	28 x 10 x 16
Materials	PBT	
Displays / operating elements		
Display	switching status	1 x LED, red
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Cable: 2 m, PVC; 2 x 0.14 mm²		
Connection		



Core colours :

BN = brown
BU = blue