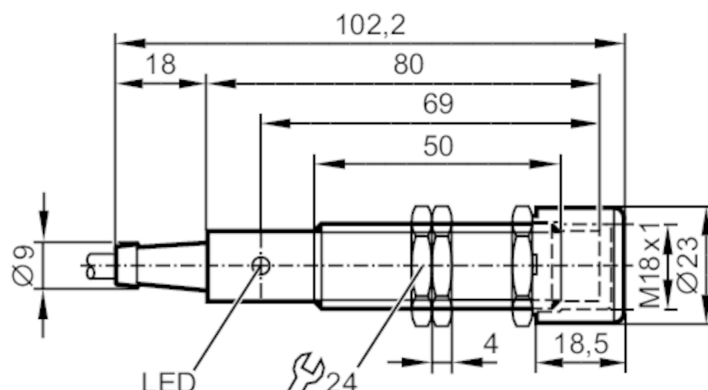


IG001A



Inductive sensor

IGA2008-ABOA/3D



Application

Installation use in hazardous areas only with installed protective cover

Electrical data

Operating voltage [V]	20...250 AC/DC
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open
Max. voltage drop switching output DC [V]	6
Max. voltage drop switching output AC [V]	6.5
Minimum load current [mA]	5
Max. leakage current [mA]	2.5 (250 V AC) / 1.3 (130 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC [mA]	150
Permanent current rating of switching output DC [mA]	100
Short-time current rating of switching output [mA]	2200; (20 ms / 0,5 Hz)
Switching frequency AC [Hz]	25
Switching frequency DC [Hz]	50
Notes on switching frequency	only for resistive loads; 2 Hz for utilisation category AC-140
Short-circuit protection	no
Overload protection	no

Detection zone

Sensing range [mm]	8
Real sensing range Sr [mm]	8 ± 10 %
Operating distance [mm]	0...6.48

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Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-20...60
Protection		IP 67
Tests / approvals		
ATEX marking	 II 3D Ex tc IIIC T80°C Dc X	
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	IEC 60255-5	1 kV line to line, Ri: 500 Ohm
	EN 55011 emission	class B
MTTF	[years]	604
Mechanical data		
Weight	[g]	184.6
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1 / L = 80
Thread designation		M18 x 1
Materials		brass white bronze coated; sensing face: PBT; lock nuts: brass white bronze coated; Protective cover: PA
Displays / operating elements		
Display	switching status	1 x LED, yellow
Electrical connection		
Required protection	miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting; Place the fuse outside the hazardous area.	
Accessories		
Accessories (supplied)	lock nuts: 3	
	Protective cover: 1	
Remarks		
Remarks	Recommendation: Check the safe functioning of the unit after a short circuit.	
Pack quantity	1 pcs.	

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Electrical connection

Cable: 2 m, PVC; 2 x 0.50 mm²

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Place the fuse outside the hazardous area.

Core colours :

BN = brown

BU = blue