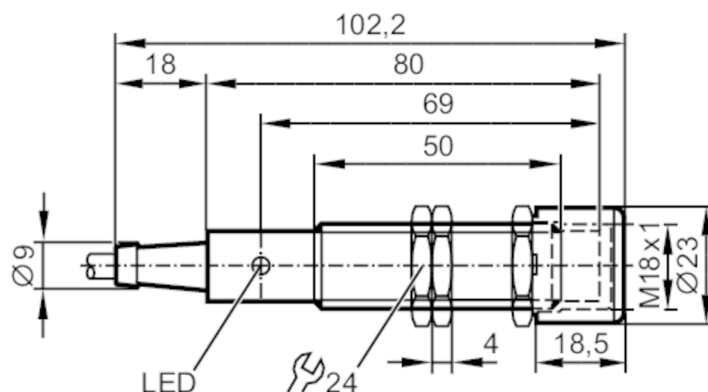


IG513A



Inductive sensor

IGA3008-BPKG/3D



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	8
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 80

Application

Installation	use in hazardous areas only with installed protective cover
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Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 15
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	150
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

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 / aluminum: 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]	1853	
Mechanical data			
Weight		[g]	193.5
Housing		Threaded type	
Mounting		non-flush mountable	
Dimensions		[mm]	M18 x 1 / L = 80
Thread designation		M18 x 1	
Material		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
Accessories			
Items supplied		lock nuts: 3 x M18	
		Protective cover: 1 x (M18 / Ø 23 mm)	
Remarks			
Pack quantity		1 pcs.	

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Electrical connection

Cable: 2 m, PUR; 3 x 0.50 mm²

Connection



BK =	Core colors :
BN =	black
BU =	brown
	blue