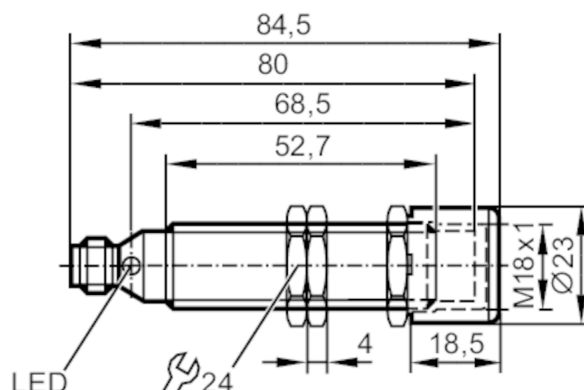


IG514A



Inductive sensor

IGA4010-CPKG/V4A/US/3D



Product characteristics

Electrical design	PNP
Output function	complementary
Sensing range [mm]	10
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]	< 20
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	complementary
Max. voltage drop switching output DC [V]	2.5
Max. leakage current [mA]	0.1
Permanent current rating of switching output DC [mA]	100
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]	10
Real sensing range Sr [mm]	10 ± 10 %
Operating distance [mm]	0...8.1

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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]	-15...15	
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
	EN 55011 emission		class B
MTTF	[years]	1326	
Mechanical data			
Weight		[g]	106.9
Housing		Threaded type	
Mounting		non-flush mountable	
Dimensions		[mm]	M18 x 1 / L = 80
Thread designation		M18 x 1	
Material		housing: stainless steel (1.4404 / 316L); sensing face: PBT orange; lock nuts: stainless steel; Protective cover: PA	
Displays / operating elements			
Display		Switching status	4 x LED, yellow
Accessories			
Items supplied		lock nuts: 3 x M18 Protective cover: 1 x (M18 / Ø 23 mm)	
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			
Connector: 1 x M12; coding: A			
			

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Connection

