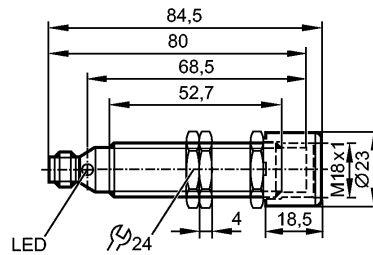


IG514A

IGA4010-CPKG/V4A/US/3D

Inductive sensors



Product characteristics

Inductive sensor
Metal thread M18 x 1
Quick disconnect
ATEX approval
Group II, category 3D
Sensing range 10 mm; [nf] non-flush mountable

Application

Application	Use in hazardous areas only with installed protective cover.
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Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 20
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	complementary
Voltage drop [V]	< 2.5
Leakage current [mA]	< 0.1
Current rating [mA]	100
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	300

Monitoring range

Sensing range [mm]	10
Real sensing range (Sr) [mm]	10 ± 10 %
Operating distance [mm]	0...8.1

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2
Hysteresis [% of Sr]	1...20
Switch-point drift [% of Sr]	-15...15

Environment

Ambient temperature [°C]	-20...60
Protection	IP 67

Tests / approvals

Marking of the unit	Ex II 3D Ex tc IIIC T80°C Dc X
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IG514A

IGA4010-CPKG/V4A/US/3D

Inductive sensors

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

Mounting	non-flush mountable
Housing materials	housing: stainless steel (316L); active face: PBT (Pocan) orange; lock nuts: high-grade stainless steel; Protective cover: PA
Weight [kg]	0.096

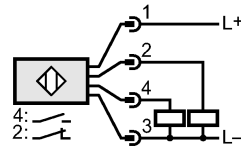
Displays / operating elements

Output status indication	LED	4 x yellow
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Electrical connection

Connection	M12 connector
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Wiring



Accessories

Accessories (included)	3 lock nuts; Protective cover
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Remarks

Pack quantity [piece]	1
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