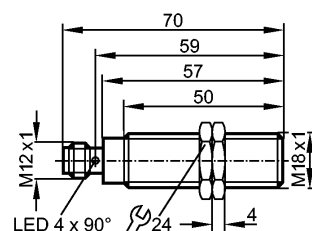


IG510A

IKG3005-BPKG/AM/US104DPS/3G/3D

Inductive sensors



Made in Germany

Product characteristics

Inductive sensor

Metal thread M18 x 1

Connector

Full metal housing

gold-plated contacts

ATEX approval

Group II, category 3D/3G

Sensing range 5 mm; [f] flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 20
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.5
Leakage current [mA]	< 0.1
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	100

Range

Sensing range [mm]	5
Operating distance [mm]	0...4.05

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.6 / Al approx. 0.5 / Cu approx. 0.3
Hysteresis [% of Sr]	1...20

Environment

Pressure rating [bar]	100; *)
Ambient temperature [°C]	-40...60
Protection	IP 67; when used outside hazardous areas: IP 65, IP 67, IP 68, IP 69K

Tests / approvals

Marking of the unit	Ex II 3G Ex nA IIC T6 Gc X Ex II 3D Ex tc IIIC T85°C Dc IP67 X
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD

IG510A

IGK3005-BPKG/AM/US104DPS/3G/3D

Inductive sensors

	EN 61000-4-3 HF radiated:	10 V/m (80...2000 MHz)
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-6 HF conducted:	10 V (0.15...80 MHz)
	EN 55011 (Emission):	class B

MTTF	[Years]	1526
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Mechanical data

Mounting	flush mountable
Housing materials	stainless steel 316L / 1.4404; PEI; lock nuts: stainless steel
Weight	[kg] 0.079

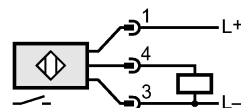
Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
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Electrical connection

Connection	M12 connector; gold-plated contacts
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Wiring



Accessories

Accessories (included)	2 lock nuts
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Remarks

Remarks	*) sensing face
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Pack quantity	[piece] 1
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