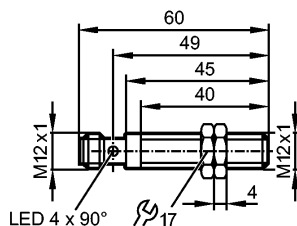


**IF503A**

IFK3003BBPKG/AM/US104DPS/3G/3D

Inductive sensors



**Product characteristics**

Inductive sensor
Metal thread M12 x 1
Connector
Full metal housing
Increased sensing range
Gold-plated contacts
ATEX approval
Group II, category 3D/3G
Sensing range 3 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]	3
Operating distance [mm]	0...2.4

**Accuracy / deviations**

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.1
Hysteresis [% of Sr]	1...20

**Environment**

Pressure rating [bar]	100; sensing face
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	<p>II 3G Ex nA IIC T6 Gc X</p> <p>II 3D Ex tc IIIC T85°C Dc IP67 X</p>
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## IF503A

IFK3003BBPKG/AM/US104DPS/3G/3D

Inductive sensors

EMC	EN 61000-4-2 ESD:	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated:	10 V/m
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-6 HF conducted:	10 V
	EN 55011 (Emission):	class B
MTTF	[Years]	1633

### Mechanical data

Mounting	flush mountable
Housing materials	stainless steel (304S15); stainless steel 316L / 1.4404; PEI; lock nuts: stainless steel
Weight	[kg] 0.052

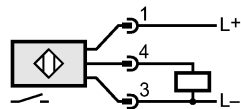
### Displays / operating elements

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

Pack quantity	[piece]	1
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