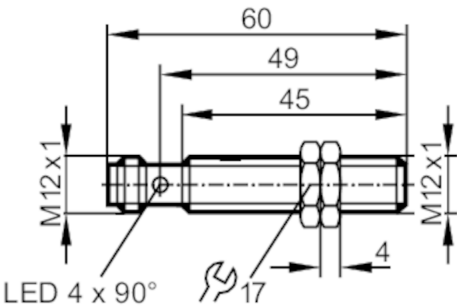


IF504A



Inductive full-metal sensor

IFK3003BAPKG/AM/US104DPO/3G/3D



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	3
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 60

Application

Special feature	Gold-plated contacts; Increased sensing range; Full-metal housing
Pressure rating [bar]	100
Note on pressure rating	sensing face

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	normally closed
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Overload protection	yes

Detection zone

Sensing range [mm]	3
Real sensing range Sr [mm]	3 ± 10 %
Operating distance [mm]	0...2.43
Increased sensing range	yes

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.6 / brass: 0.7 / aluminium: 0.6 / copper: 0.3
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Hysteresis	[X01]	1...20
Switch point drift	[X01]	-10...10

Operating conditions

Ambient temperature	[°C]	-40...60
Protection	IP 67; (when used outside the hazardous area: IP 65, IP 67, IP 68, IP 69K)	

Tests / approvals

Approval	BVS 20 ATEX E 055 X; IECEx BVS 20.0042 X	
ATEX marking	 II 3G Ex ec IIC T6 Gc	
	 II 3D Ex tc IIIC T85°C Dc	
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	class B
Impact resistance	EN 60068-2-75 Eh	1 J
Vibration resistance	EN 60068-2-6 Fc	20 g (10...3000 Hz) / 50 sweep cycles, 1 octave per minute, in 3 axes
Shock resistance	EN 60068-2-27 Ea	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
Continuous shock resistance	EN 60068-2-27 Ea	40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes
Fast temperature change	EN 60068-2-14 Na	TA = -40°C; TB = 85°C; t1 = 30 min; t2 = 10 s 50 cycles
Salt spray test	EN 60068-2-52 Kb	severity level 5 (4 test cycles)
MTTF	[ANN]	1258

Mechanical data

Weight	[g]	54.516
Housing	threaded type	
Mounting	flush mountable	
Dimensions	[mm]	M12 x 1 / L = 60
Thread designation	M12 x 1	
Materials	stainless steel (1.4404 / 316L); PEI; lock nuts: stainless steel	
Tightening torque	[Nm]	15
Full-metal housing	yes	

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
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Аксессуары

Items supplied	lock nuts: 2	
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Remarks

Pack quantity	1 pcs.	
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IF504A



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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

