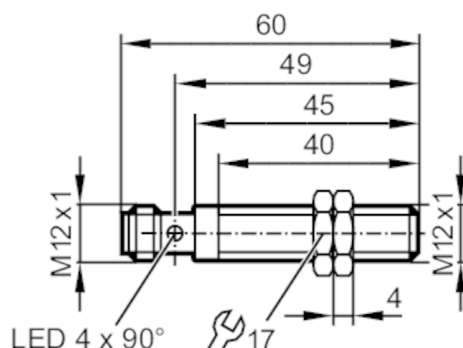


IF503A



Inductive full-metal sensor

IFK3003BBPKG/AM/US104DPS/3G/3D



Product characteristics

Electrical design	PNP
Output function	normally open
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...36 DC
Current consumption [mA]	< 20
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
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]	100
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	3
Operating distance [mm]	0...2.4
Increased sensing range	yes

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Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.1
Hysteresis	[% of Sr]	1...20
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		
ATEX marking	II 3G Ex nA IIC T6 Gc X	
	II 3D Ex tc IIIC T85°C Dc IP67 X	
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]	1258
Mechanical data		
Weight	[g]	54
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 60
Thread designation		M12 x 1
Materials		stainless steel (304/1.4301); stainless steel (316L/1.4404); PEI; lock nuts: stainless steel
Full-metal housing		yes
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12; coding: A; Contacts: gold-plated		
		

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Connection

