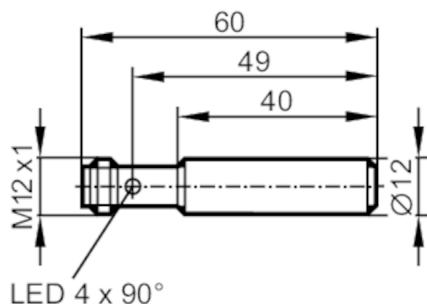


IFT243



Inductive full-metal sensor

IFG3003BBPKG/AM/US-104-DPS



Application		
Pressure rating	[bar]	50
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
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
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]	0...100
Protection		IP 68; IP 69K



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Tests / approvals

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
Impact resistance	DIN EN 60068-2-75 Ehc	1 J
MTTF [years]	1633	

Mechanical data

Weight [g]	23.4
Housing	cylindrical
Mounting	flush mountable
Dimensions [mm]	Ø 12 / L = 60
Materials	housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); lock nuts: stainless steel (1.4404 / 316L); connector housing: PEI
Full-metal housing	yes

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated



Connection

