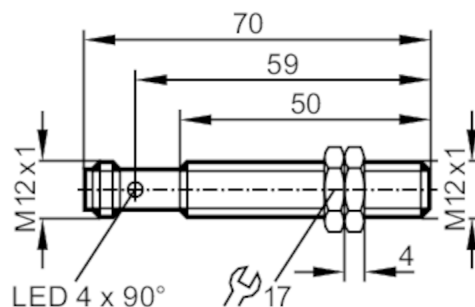


IFT205



Inductive sensor

IFKC004BASKG/M/V4A/US-104-DRS



Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 10
Protection class		II
Reverse polarity protection		yes

Outputs

Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Minimum load current	[mA]	2; (only in 2-wire operation)
Max. leakage current	[mA]	0.5; (only in 2-wire operation)
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	500
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	4
Operating distance	[mm]	0...3.24
Increased sensing range		yes

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
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	class B
MTTF	[years]	1500	
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		File number UL	E174191

Mechanical data

Weight	[g]	31.2
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 70
Thread designation		M12 x 1
Materials		stainless steel (1.4404 / 316L); sensing face: PEEK

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
	setting aid	1 x LED, red
Optical setting aid	yes	

Accessories

Accessories (supplied)	lock nuts: 2
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Remarks

Remarks	suitable for PLC type 1 according to IEC 61131-2
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated





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2-wire

