

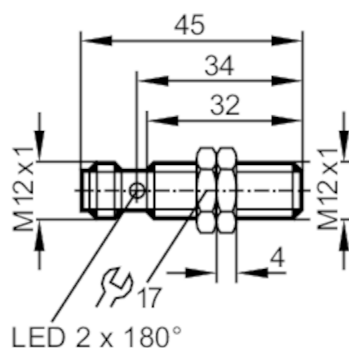
IFT23A



Inductive sensor

IFB23,5BARKG/M/V4A/US102DRS/3G

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Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	3.5
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 45

Application

Special feature	Gold-plated contacts; Increased sensing range
Application	Use in wet areas and in the food and beverage industry

Electrical data

Operating voltage [V]	10...30 DC
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
Max. leakage current [mA]	0.5
Permanent current rating of switching output DC [mA]	100
Short-time current rating of switching output [mA]	100
Switching frequency DC [Hz]	700
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	3.5
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Operating distance	[mm]	0...2.84
Increased sensing range		yes

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	1...20

Operating conditions

Ambient temperature	[°C]	0...60
Protection		IP 67

Tests / approvals

ATEX marking	 II 3G EEx nA II T6 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	class B

Mechanical data

Housing	threaded type	
Mounting	flush mountable	
Dimensions	[mm]	M12 x 1 / L = 45
Thread designation	M12 x 1	
Materials	stainless steel (1.4404 / 316L); sensing face: PEEK	

Displays / operating elements

Display	switching status	2 x 180° LED, yellow
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Accessories

Items supplied	lock nuts: 2	
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Remarks

Remarks	Conventional 3-wire pnp sensors can be replaced. In this case pin 3 (grey in the wiring diagram) is not used.	
Pack quantity	1 pcs.	

Electrical connection - plug

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



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Connection

