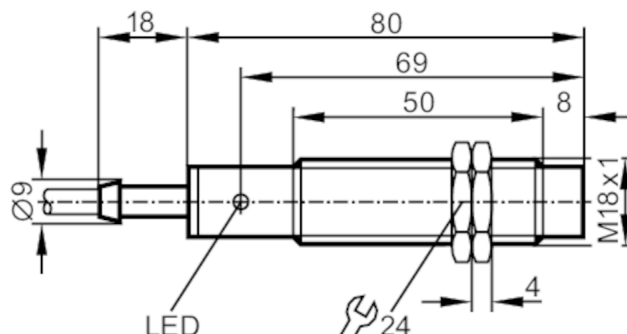




Inductive sensor

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Product characteristics

Output function	normally open
Sensing range [mm]	8
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 80

Electrical data

Operating voltage [V]	20...250 AC/DC
Protection class	II
Reverse polarity protection	no

Outputs

Output function	normally open
Max. voltage drop switching output DC [V]	6
Max. voltage drop switching output AC [V]	6.5
Minimum load current [mA]	5
Max. leakage current [mA]	2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC [mA]	250; (350 (...50 °C))
Permanent current rating of switching output DC [mA]	100
Short-time current rating of switching output [mA]	2200; (20 ms / 0,5 Hz)
Switching frequency AC [Hz]	25
Switching frequency DC [Hz]	50
Short-circuit proof	no
Overload protection	no

Monitoring range

Sensing range [mm]	8
Real sensing range Sr [mm]	8 ± 10 %
Operating distance [mm]	0...6.5



Inductive sensor

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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	1...15	
Switch-point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature		[°C]	-25...80
Protection			IP 67
Tests / approvals			
EMC	EN 61000-4-2 ESD		4 kV CD / 8 kV AD
	EN 61000-4-3 HFgestrahlt		10 V/m
	EN 61000-4-4 Burst		2 kV
	EN 61000-4-6 HF leitungsgebunden		10 V
	EN 55011		class B
MTTF	[years]	604	
UL approval	Ta		0...40 °C
	Enclosure type		Type 1
	voltage supply		Hazardous voltage
	File number UL		E174191
Mechanical data			
Weight	[g]	151.6	
Housing		Threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 80	
Thread designation		M18 x 1	
Material		brass white bronze coated; sensing face: PBT natural; LED window: PBT natural	
Tightening torque	[Nm]	23	
Displays / operating elements			
Display		Switching status	1 x LED, red
Electrical connection			
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting	
Accessories			
Accessories (supplied)		lock nuts: 2	
Remarks			
Remarks		Recommendation: check the unit for reliable function after a short circuit.	
Pack quantity		1 pcs.	

IG0307



Inductive sensor

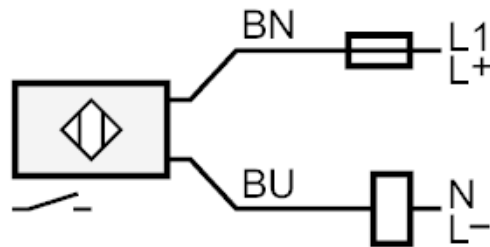
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Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm²

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Core colors :

BN = brown

BU = blue