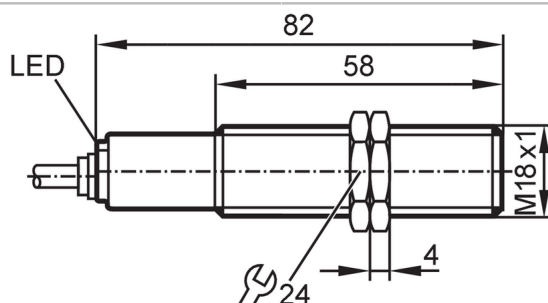




Inductive sensor

IGA2005-ARKA



Product characteristics

Output function		normally open
Sensing range	[mm]	5
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 82

Electrical data

Operating voltage	[V]	75...250 AC / 20...250 DC
Protection class		II
Reverse polarity protection		yes

Outputs

Output function		normally open
Max. voltage drop switching output DC	[V]	5.5
Max. voltage drop switching output AC	[V]	5.5
Minimum load current	[mA]	4
Max. leakage current	[mA]	4
Permanent current rating of switching output AC	[mA]	100
Permanent current rating of switching output DC	[mA]	100
Short-time current rating of switching output	[mA]	900; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	50
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	5
Real sensing range Sr	[mm]	5 ± 10 %
Operating distance	[mm]	0...4.05

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
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IG0400



Inductive sensor

IGA2005-ARKA

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 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011 emission	class B
MTTF	[years]	397
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	File number UL	E174191

Mechanical data

Weight	[g]	129
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M18 x 1 / L = 82
Thread designation		M18 x 1
Materials		threaded sleeve: brass white bronze coated; sensing face: PBT; end cap: PC / TPE

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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IG0400



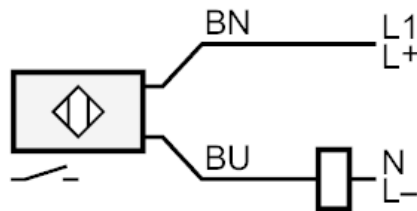
Inductive sensor

IGA2005-ARKA

Electrical connection

Cable: 2 m, PVC, Ø 4.9 mm; 2 x 0.34 mm²

Connection



BN = Core colours :
brown
BU = blue