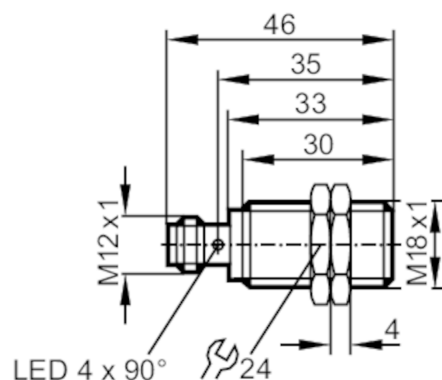




Inductive sensor

KIT, IGT249, EVC005, E12342



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	5
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 46

Application

System	gold-plated contacts
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Electrical data

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

Outputs

Electrical design	PNP
Output function	normally closed
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	500
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

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: 0.4 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]	1...20

UI0056



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Switch-point drift	[% of Sr]	-10...10
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Operating conditions

Ambient temperature	[°C]	0...100
Protection		IP 68; IP 69K

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 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B

Mechanical data

Weight	[g]	251.29
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1 / L = 46
Thread designation		M18 x 1
Material		threaded sleeve: stainless steel (1.4404 / 316L); sensing face: PEEK; lock nuts: stainless steel

Displays / operating elements

Display	Switching status	4 x 90° LED, yellow
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Accessories

Items supplied	lock nuts: 2
	Female cordset
	washers

Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

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





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Connection

