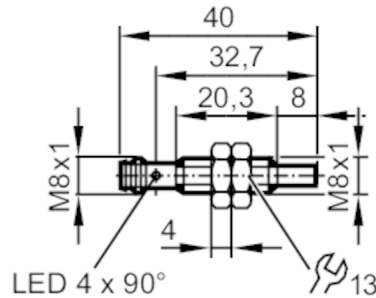


IE5340



Inductive sensor

IEBC005-ASKG/V4A/AS



Product characteristics

Electrical design		PNP/NPN
Output function		normally open
Sensing range	[mm]	5
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 40

Electrical data

Operating voltage	[V]	10...30 DC
Protection class		III
Reverse polarity protection		yes

Outputs

Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	3.5
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]	600
Short-circuit protection		yes
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: 0.5 / copper: 0.4
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10

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Operating conditions

Ambient temperature	[°C]	0...60
Protection		IP 65; IP 67; (with ifm socket duly screwed on)

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]	1864	
UL approval		Ta	0...60 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL Approval no.	A017
		File number UL	E174191

Mechanical data

Weight	[g]	13.8
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M8 x 1 / L = 40
Thread designation		M8 x 1
Materials		stainless steel (1.4401 / 316); sensing face: LCP orange; LED window: PPSU; lock nuts: stainless steel (1.4401 / 316)
Tightening torque	[Nm]	A = 5 mm: 2 Nm; B = 5 Nm

Displays / operating elements

Display	switching status	4 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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Electrical connection - plug

Connector: 1 x M8

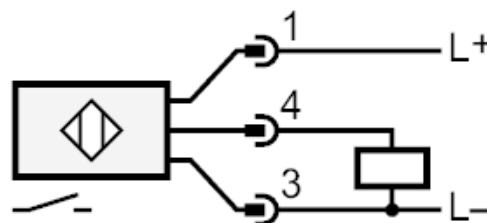
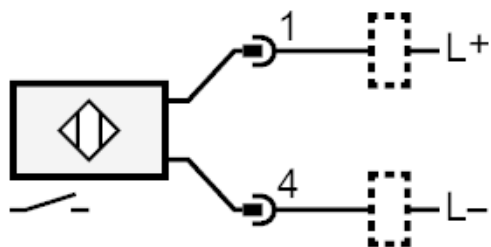


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Diagrams and graphs

Installation

