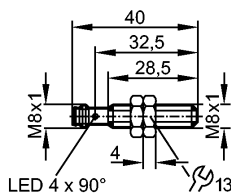


IE5338

IEBC003BASKG/AS

Inductive sensors



Product characteristics

Inductive sensor
Metal thread M8 x 1
Connector
Operation as 3-wire or 2-wire possible
Sensing range 3 mm; [f] flush mountable

Electrical data

Electrical design	3-wire DC PNP; 2-wire DC PNP/NPN
Operating voltage [V]	10...30 DC; to PELV; "supply class 2" to cULus.
Current consumption [mA]	< 15 only in 3-wire operation
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 3.5
Minimum load current [mA]	2; only in 2-wire operation
Leakage current [mA]	< 0.5; only in 2-wire operation
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	800

Range

Sensing range [mm]	3
Operating distance [mm]	0...2.4

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Hysteresis [% of Sr]	1...20

Environment

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 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20Ohm) EN 61000-4-6 HF conducted: 10 V EN 55011: class B EN 60947-5-2
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IE5338

IEBC003BASKG/AS

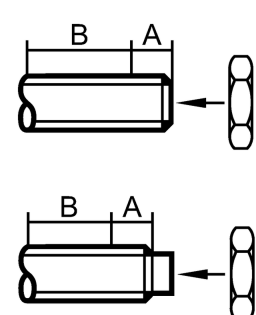
Inductive sensors

MTTF	[Years]	2046
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Mechanical data

Mounting	flush mountable
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Housing materials	Brass special coating; active face: LCP orange; lock nuts: Brass
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Installation	
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Tightening torque	[Nm]	≤ 1 (A = 5 mm) ≤ 2 (B)
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Weight	[kg]	0.017
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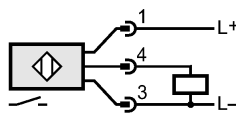
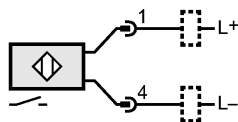
Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
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Electrical connection

Connection	M8 connector
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Wiring



Accessories

Accessories (included)	2 lock nuts
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Remarks

Pack quantity	[piece]	1
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