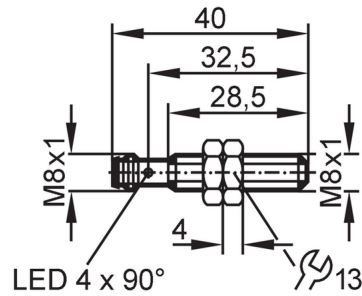


IE5338



Inductive sensor

IEBC003BASKG/AS



Product characteristics	
Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	3
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 40
Electrical data	
Operating voltage [V]	10...30 DC; (; to PELV)
Current consumption [mA]	< 15; (only in 3-wire operation)
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]	800
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes
Detection zone	
Sensing range [mm]	3
Operating distance [mm]	0...2.4
Accuracy / deviations	
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of Sr]	1...20
Operating conditions	
Ambient temperature [°C]	0...60
Protection	IP 65; IP 67; (with ifm socket duly screwed on)

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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
	EN 60947-5-2	
MTTF	[years]	1858
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data		
Weight	[g]	16.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 40
Thread designation		M8 x 1
Materials		brass special coating; sensing face: LCP orange; lock nuts: brass
Tightening torque	[Nm]	A = 5 mm: ≤ 1 Nm; B: ≤ 2 Nm

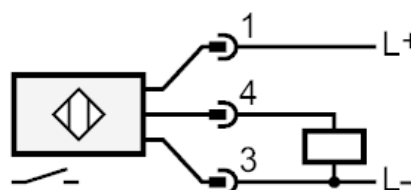
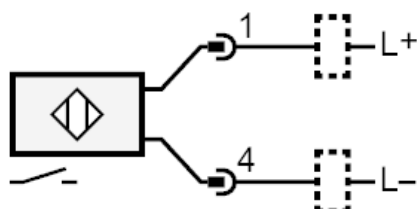
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow

Accessories		
Items supplied		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

Electrical connection - plug

Connector: 1 x M8; coding: A; Contacts: 3



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Diagrams and graphs

Installation

