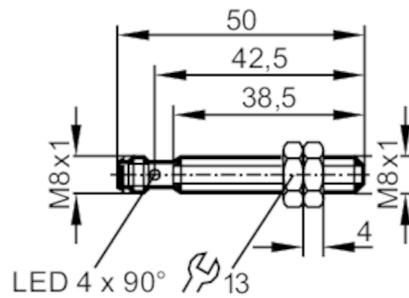


IE5287



Inductive sensor

IEB3002BBPKG/AS



Made in Germany

Electrical data	
Operating voltage [V]	10...36 DC; (to PELV; "supply class 2" to cULus)
Current consumption [mA]	15; (24 V)
Protection class	III
Reverse polarity protection	yes
Outputs	
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	1300
Electrical design	PNP
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes
Range	
Sensing range [mm]	2
Operating distance [mm]	0...1.6
Increased sensing range	yes
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]	-25...70
Protection	IP 65; IP 67; (with ifm socket duly screwed on)

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Tests / approvals		
EMC	EN 55011	class B
	EN 60947-5-2	
	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
MTTF	[years]	2359
Mechanical data		
Weight	[g]	18.2
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 50
Thread designation		M8 x 1
Materials		brass special coating; cover: 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		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M8		

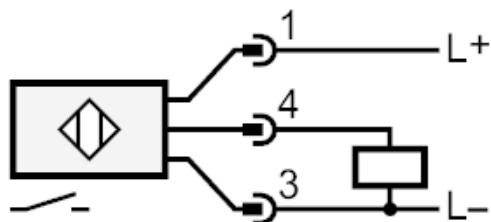
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Inductive sensor

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Connection



Diagrams and graphs

Installation

