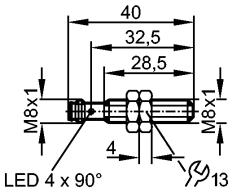
efector100

IE5338

IEBC003BASKG/AS

Inductive sensors

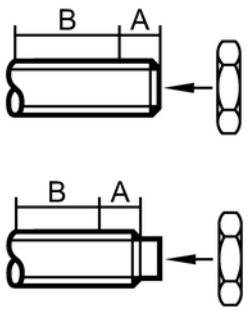


Made in Germany

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 (PELV); "supply class 2" to cULus.
Current consumption	[mA]	< 15
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 *)
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 (80...2000 MHz) EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 2Ohm) EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz) EN 55011: class B EN 60947-5-2

MTTF	[Years]	2046

Mechanical data

Mounting		flush mountable
Housing materials		Brass special coating; active face: LCP orange; lock nuts: Brass
Installation		
Tightening torque	[Nm]	≤ 1 (A = 5 mm) ≤ 2 (B)
Weight	[kg]	0.019

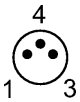
Displays / operating elements

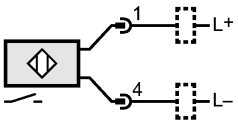
Output status indication	LED	yellow (4 x 90°)

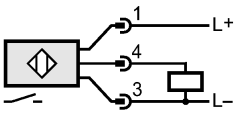
Electrical connection

Connection		M8 connector

Wiring







Accessories

Accessories (included)		2 lock nuts

Remarks

Remarks		*) only in 3-wire operation
Pack quantity	[piece]	1