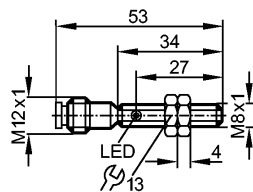


**IE5090**

IEB3001-BPOG/US-100-DPS

**Inductive sensors**



Made in Germany



**Product characteristics**

Inductive sensor
Metal thread M8 x 1
Quick disconnect
Sensing range 1 mm; [f] flush mountable

**Electrical data**

Electrical design	DC PNP
Operating voltage [V]	10...36 DC; cULus - Class 2 source required
Current consumption [mA]	< 15 (24 V)
Reverse polarity protection	no

**Outputs**

Output function	normally open
Voltage drop [V]	< 1
Current rating [mA]	200
Short-circuit protection	no
Overload protection	no
Switching frequency [Hz]	750

**Monitoring range**

Sensing range [mm]	1
Real sensing range (Sr) [mm]	1 ± 10 %
Operating distance [mm]	0...0.8

**Accuracy / deviations**

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

**Environment**

Ambient temperature [°C]	-25...80
Protection	IP 67

**Tests / approvals**

EMC	EN 60947-5-2 EN 55011: class B
MTTF [Years]	5542

**Mechanical data**

Mounting	flush mountable
Housing materials	brass white bronze coated; PBT
Weight [kg]	0.022

**Displays / operating elements**

**IE5090**

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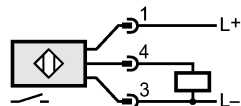
**Inductive sensors**

Output status indication      LED      yellow

**Electrical connection**

Connection      M12 connector

**Wiring**



**Accessories**

Accessories (included)      2 lock nuts

**Remarks**

Pack quantity      [piece]      1