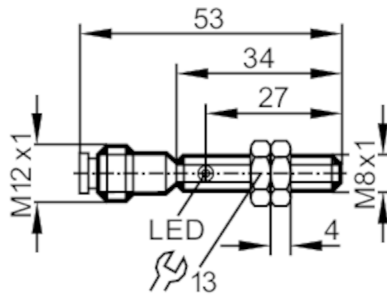


# IE5090



## Inductive sensor

IEB3001-BPKG/US-100-DPS



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	1
Housing		Threaded type
Dimensions	[mm]	M8 x 1 / L = 53
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	15; (24 V)
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
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]	750
Short-circuit protection		yes
Overload protection		yes
Monitoring range		
Sensing range	[mm]	1
Real sensing range Sr	[mm]	1 ± 10 %
Operating distance	[mm]	0...0.8
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67

# IE5090



## Inductive sensor

IEB3001-BPKG/US-100-DPS

Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class B
MTTF	[years]	2804
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data		
Weight	[g]	20.7
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 53
Thread designation		M8 x 1
Material		brass white bronze coated; PBT
Tightening torque	[Nm]	A = 5 mm: 1 Nm; B: 2 Nm

Displays / operating elements		
Display	Switching status	1 x LED, yellow

Accessories		
Accessories (supplied)		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

### Electrical connection - plug

Connector: 1 x M12



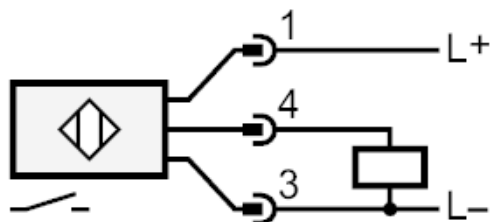
# IE5090



## Inductive sensor

IEB3001-BPKG/US-100-DPS

### Connection



### Diagrams and graphs

#### Installation

