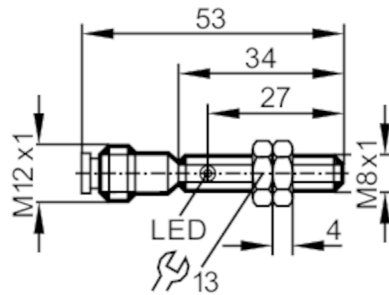


# IE5091



## Inductive sensor

IEB3001-APKG/US-100



Product characteristics	
Electrical design	PNP
Output function	normally closed
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
Protection class	III
Reverse polarity protection	yes

Outputs	
Electrical design	PNP
Output function	normally closed
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

Detection zone	
Sensing range [mm]	1
Real sensing range Sr [mm]	1 ± 10 %
Operating distance [mm]	0...0.8
Increased sensing range	no

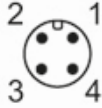
Accuracy / deviations	
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis [% of Sr]	1...15
Switch point drift [% of Sr]	-10...10

# IE5091



## Inductive sensor

IEB3001-APKG/US-100

Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
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]	2737
Mechanical data		
Weight	[g]	20.7
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 53
Thread designation		M8 x 1
Materials		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		
		

# IE5091



## Inductive sensor

IEB3001-APKG/US-100

### Connection



### Diagrams and graphs

#### Installation

