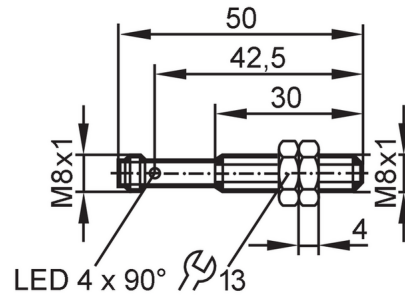


IEC201



Inductive full-metal sensor

IEB3002BBPKG/AM/AS



Product characteristics	
Electrical design	PNP
Output function	normally open
Sensing range [mm]	2
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 50
Application	
Special feature	Gold-plated contacts; Increased sensing range; Full-metal housing
Application	Use in machine tools, coolants and lubricants
Pressure rating	100 bar / 10 MPa
Note on pressure rating	sensing face
Electrical data	
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 20
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]	100
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes
Detection zone	
Sensing range [mm]	2
Operating distance [mm]	0...1.6
Increased sensing range	yes
Accuracy / deviations	
Correction factor	stainless steel: 0.6 / brass: 0.4 / aluminium: 0.3 / copper: 0.2

IEC201



Inductive full-metal sensor

IEB3002BBPKG/AM/AS

Hysteresis	[% of Sr]	1...20
------------	-----------	--------

Operating conditions

Ambient temperature	[°C]	-25...70
---------------------	------	----------

Protection		IP 67
------------	--	-------

Tests / approvals

EMC	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 61000-4-6 HF conducted	10 V
---------------------------	------

EN 55011	class B
----------	---------

Impact resistance		1 J
-------------------	--	-----

MTTF	[years]	1446
------	---------	------

UL approval	Ta	0...40 °C
-------------	----	-----------

Enclosure type	Type 1
----------------	--------

power supply	Limited Voltage/Current
--------------	-------------------------

File number UL	E174191
----------------	---------

Mechanical data

Weight	[g]	18.1
--------	-----	------

Housing		threaded type
---------	--	---------------

Mounting		flush mountable
----------	--	-----------------

Dimensions	[mm]	M8 x 1 / L = 50
------------	------	-----------------

Thread designation		M8 x 1
--------------------	--	--------

Materials	housing: stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); lock nuts: stainless steel (316L/1.4404)	
-----------	---	--

Full-metal housing		yes
--------------------	--	-----

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
---------	------------------	---------------------

Accessories

Items supplied		lock nuts: 2
----------------	--	--------------

Remarks

Pack quantity		1 pcs.
---------------	--	--------

Electrical connection - plug

Connector: 1 x M8; coding: A; Contacts: 3, gold-plated



IEC201



Inductive full-metal sensor

IEB3002BBPKG/AM/AS

Connection

