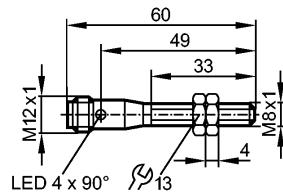


IER200

IEK3002BBPKG/AM/SC/US-104-DPS

Inductive sensors



Made in Germany



Product characteristics

Inductive sensor
Metal thread M8 x 1
Connector
Full metal housing
Increased sensing range
Gold-plated contacts
Sensing range 2 mm; [f] flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 20
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	100

Range

Sensing range [mm]	2
Real sensing range (Sr) [mm]	2 ± 10 %
Operating distance [mm]	0...1.6

Accuracy / deviations

Correction factors	stainless steel approx. 0.6 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

Environment

Pressure rating [bar]	100; *)
Ambient temperature [°C]	0...85
Protection	IP 67 / IP 68

Tests / approvals

EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated: 10 V/m (80...1000 MHz)
	EN 61000-4-4 Burst: 2 kV
	EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz)
	EN 55011: class B

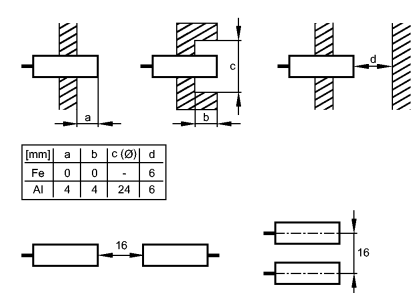
IER200

IEK3002BBPKG/AM/SC/US-104-DPS

Inductive sensors

MTTF	[Years]	1978
------	---------	------

Mechanical data

Mounting	flush mountable																
Housing materials	housing: stainless steel 316L / 1.4404 anti-spatter; active face: stainless steel 316L / 1.4404 anti-spatter; lock nuts: stainless steel 316L / 1.4404 anti-spatter																
Installation	 <table border="1" data-bbox="813 604 957 672"> <thead> <tr> <th>[mm]</th> <th>a</th> <th>b</th> <th>c (Ø)</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>Fe</td> <td>0</td> <td>0</td> <td>-</td> <td>6</td> </tr> <tr> <td>Al</td> <td>4</td> <td>4</td> <td>24</td> <td>6</td> </tr> </tbody> </table>		[mm]	a	b	c (Ø)	d	Fe	0	0	-	6	Al	4	4	24	6
[mm]	a	b	c (Ø)	d													
Fe	0	0	-	6													
Al	4	4	24	6													

Tightening torque	[Nm]	3.5
-------------------	------	-----

Weight	[kg]	0.022
--------	------	-------

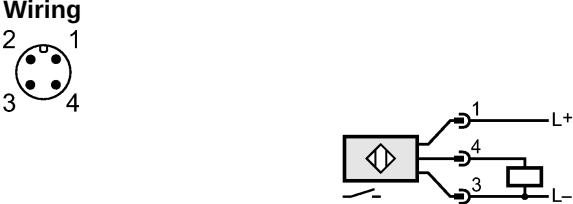
Displays / operating elements

Output status indication	LED	4 x yellow
--------------------------	-----	------------

Electrical connection

Connection	M12 connector	
------------	---------------	--

Wiring



Accessories

Accessories (included)	2 lock nuts	
------------------------	-------------	--

Remarks

Remarks	*) sensing face	
---------	-----------------	--

Pack quantity	[piece]	1
---------------	---------	---