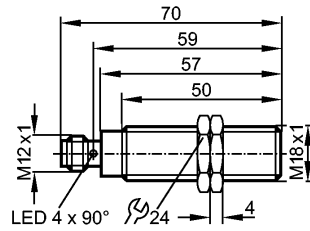


IGR200

IGK3006BBPKG/AM/SC/US-104-DPS

Inductive sensors



Made in Germany



Product characteristics

Inductive sensor
Metal thread M18 x 1
Connector
Full metal housing
Electromagnetic-field immune *)
Increased sensing range
Gold-plated contacts
Sensing range 6 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
Leakage current [mA]	< 0.1
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	2

Range

Sensing range [mm]	6
Operating distance [mm]	0...4.9

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.3 / Cu approx. 0.1
Hysteresis [% of Sr]	1...20

Environment

Pressure rating [bar]	100; **)
Ambient temperature [°C]	0...85
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 (80...2000 MHz)
	EN 61000-4-4 Burst: 2 kV
	EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz)

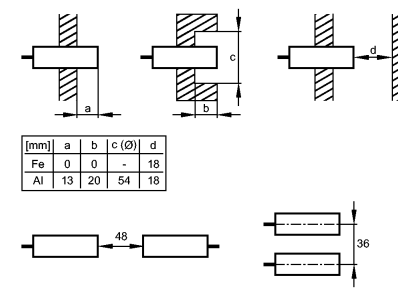
IGR200

IGK3006BBPKG/AM/SC/US-104-DPS

Inductive sensors

	EN 55011 (Emission):	class B
MTTF	[Years]	1351

Mechanical data

Mounting	flush mountable															
Housing materials	housing: stainless steel 316L / 1.4404 anti-spatter; active face: stainless steel 316L / 1.4404 anti-spatter; connector: PA; lock nuts: stainless steel 316L / 1.4404 anti-spatter															
Installation	 <table border="1" data-bbox="813 683 965 750"> <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>18</td> </tr> <tr> <td>Al</td> <td>13</td> <td>20</td> <td>54</td> <td>18</td> </tr> </tbody> </table>	[mm]	a	b	c (Ø)	d	Fe	0	0	-	18	Al	13	20	54	18
[mm]	a	b	c (Ø)	d												
Fe	0	0	-	18												
Al	13	20	54	18												

Tightening torque	[Nm]	35
Weight	[kg]	0.062

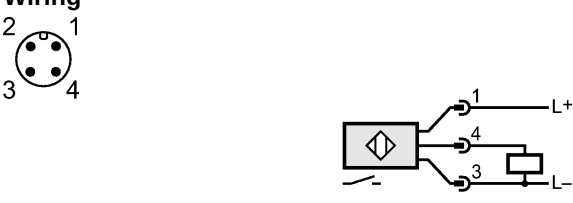
Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
Operation	LED	green

Electrical connection

Connection	M12 connector; Gold-plated contacts
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Wiring



Accessories

Accessories (included)	2 lock nuts
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Remarks

Remarks	*) if pulse duration of the welding current < 200 ms **) sensing face
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Pack quantity	[piece]	1
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