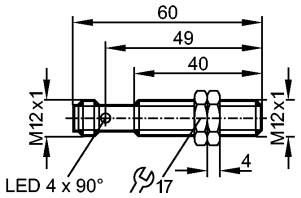
efector100

IFR200

IFK3004BBPKG/AM/SC/US-104-DPS

Inductive sensors

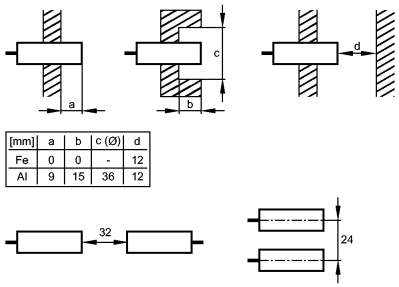


Made in Germany

Product characteristics		
Inductive sensor		
Metal thread M12 x 1		
Connector		
Full metal housing		
Electromagnetic-field immune *)		
Increased sensing range		
Gold-plated contacts		
Sensing range 4 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]	4
Operating distance	[mm]	0...3.25
Accuracy / deviations		
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.2 / aluminium approx. 0.1 / copper = 0
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)

	EN 55011 (Emission):	class B
MTTF	[Years]	1315

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		

[mm]	a	b	c (Ø)	d
Fe	0	0	-	12
Al	9	15	36	12

Tightening torque	[Nm]	10
Weight	[kg]	0.036

Displays / operating elements

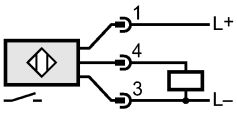
Output status indication	LED	yellow (4 x 90°)
Operation	LED	green

Electrical connection

Connection		M12 connector; Gold-plated contacts

Wiring





Accessories

Accessories (included)		2 lock nuts

Remarks

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