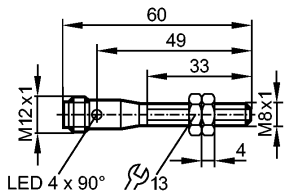
efector100

IER200

IEK3002BBPKG/AM/SC/US-104-DPS

Inductive sensors



Made in Germany

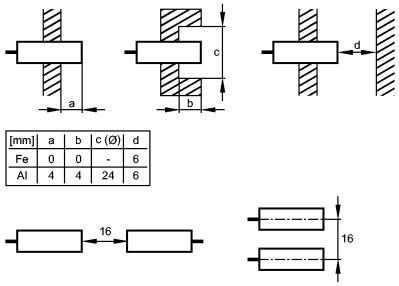
Product characteristics		
Inductive sensor		
Metal thread M8 x 1		
Connector		
Full metal housing		
Increased sensing range		
Gold-plated contacts		
Sensing range 2 mm; [f] flush mountable		
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 20
Protection 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

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		

[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

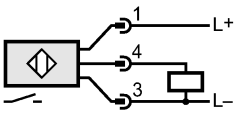
Output status indication	LED	4 x yellow

Electrical connection

Connection		M12 connector

Wiring





Accessories

Accessories (included)		2 lock nuts

Remarks

Remarks		*) sensing face
Pack quantity	[piece]	1