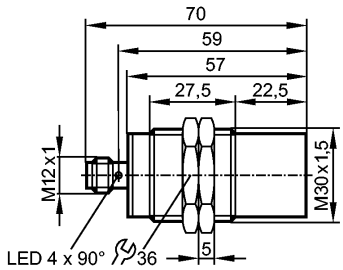
efector100

IIT231

IIK3025-BPKG/AM/P/US-104-DPS

Inductive sensors



EC 1935/2004

Product characteristics

Inductive sensor
Metal thread M30 x 1.5
Quick disconnect
Full metal housing
Increased sensing range
gold-plated contacts
Sensing range 25 mm; [nf] non-flush mountable

Electrical data

Electrical design		DC PNP
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 25
Protection class		III
Reverse polarity protection		yes

Outputs

Output function		normally open
Voltage drop	[V]	< 2.5
Current rating	[mA]	100
Short-circuit protection		yes (non-latching)
Overload protection		yes
Switching frequency	[Hz]	250

Monitoring range

Sensing range	[mm]	25
Real sensing range (Sr)	[mm]	25 ± 10 %
Operating distance	[mm]	0...20.3

Accuracy / deviations

Correction factors		mild steel = 1 / stainless steel = 1 / brass approx. 0.7 / aluminium approx. 0.6 / Cu approx. 0.4
Hysteresis	[% of Sr]	1...20
Switch-point drift	[% of Sr]	-10...10

Environment

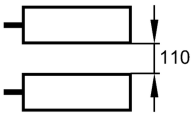
Pressure rating	[bar]	100; sensing face
Ambient temperature	[°C]	0...100
Protection		IP 65 / IP 67 / IP 68 / IP 69K

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: EN 61000-4-6 HF conducted: EN 55011 (Emission):	2 kV 10 V class B
Impact resistance	DIN EN 60068-2-75 Ehc:	1 J
MTTF [Years]	740	

Mechanical data

Mounting	non-flush mountable
Housing materials	housing: stainless steel 316L / 1.4404; active face: stainless steel 316L / 1.4404; lock nuts: stainless steel 316L / 1.4404
Installation	
Weight [kg]	0.135

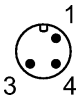
Displays / operating elements

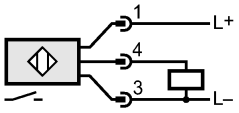
Output status indication LED	yellow (4 x 90°)

Electrical connection

Connection	M12 connector; gold-plated contacts

Wiring





Accessories

Accessories (included)	2 lock nuts

Remarks

Pack quantity [piece]	1