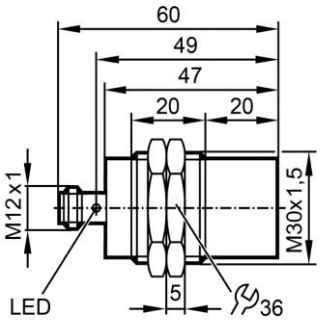
Inductive sensor
Order number: 100050
Type II7109

Metal thread M30 x 1,5

M12 connector

Sensing range 15 mm [nf]

non-flush mountable



Made in Germany

Electrical data			
Electrical design		DC PNP	
Operating voltage	[V]	15...30 DC	
Current consumption	[mA]	< 15	
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]	200	
Range			
Sensing range	[mm]	15	
Real sensing range (Sr)	[mm]	15 ± 10 %	
Operating distance	[mm]	0...12,1	
Correction factors		mild steel = 1 / stainless steel approx. 0.6 / brass approx. 0.3 / Al approx. 0.3 / Cu approx. 0.1	
Hysteresis	[% of Sr]	1...20	
Switch-point drift	[% of Sr]	-10...10	
Enviroment			
Ambient temperature	[°C]	-25...70	
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:	3 V (0,15...80 MHz)
		EN 55011:	class B
		IEC 255-5:	1 kV (line to line, Ri: 500 Ohm)
MTTF	[Years]	1.122	

Inductive sensor
Order number: 100050
Type II7109

Mechanical data

Mounting		non-flush mountable
Housing materials		housing: brass nickel-plated; active face: PBT; lock nuts: brass
Weight	[kg]	0,102

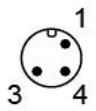
Displays / Operating elements

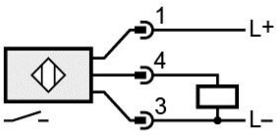
Output status indicatrion LED	yellow

Electrical connection

Connection	M12 connector

Wiring





Accessories

Accessories (included)	2 lock nuts
Accessories (optional)	socket e.g. order number: 100163 angle bracket e.g. order number: 100059