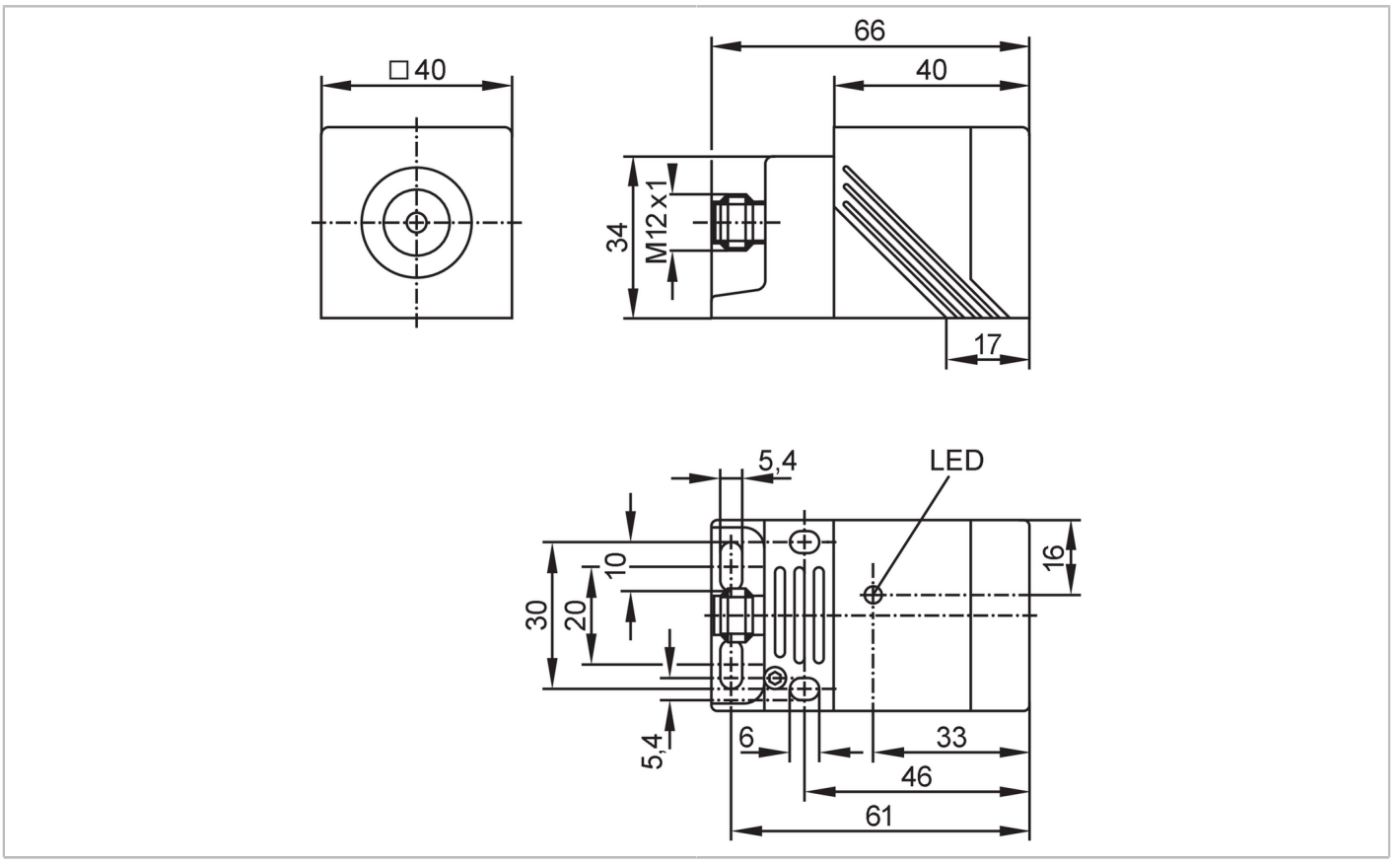
IM0053

Inductive sensor

IMC2035-ABOA/SL/LS-100FK



Product characteristics		
Output function		normally open
Sensing range	[mm]	35
Housing		rectangular
Dimensions	[mm]	40 x 40 x 66
Application		
Special feature		Gold-plated contacts; Increased sensing range
Electrical data		
Operating voltage	[V]	20...250 AC/DC
Protection class		I
Reverse polarity protection		no
Outputs		
Output function		normally open
Max. voltage drop switching output DC	[V]	6
Max. voltage drop switching output AC	[V]	6.5
Minimum load current	[mA]	1.9
Max. leakage current	[mA]	2.5 (250 V AC) / 1.3 (130 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC	[mA]	250; (350 (...50 °C))

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Permanent current rating of switching output DC	[mA]	100	
Short-time current rating of switching output	[mA]	2200; (20 ms / 0,5 Hz)	
Switching frequency AC	[Hz]	20	
Switching frequency DC	[Hz]	50	
Short-circuit protection		no	
Short-circuit proof		no	
Overload protection		no	
Detection zone			
Sensing range	[mm]	35	
Real sensing range Sr	[mm]	35 ± 10 %	
Operating distance	[mm]	0...28.3	
Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.8 / brass: 0.4 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	3...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
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
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	10 V
		EN 55011	class B
		EN 60947-5-2	
MTTF	[years]	600	
Embedded software included		no	
Mechanical data			
Weight	[g]	167.15	
Housing		rectangular	
Mounting		non-flush mountable	
Dimensions	[mm]	40 x 40 x 66	
Materials		sensing face: PPE orange; housing: PPE black; connection module: PPS black; Mounting clip: PPS black; screw: steel galvanised	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Electrical connection			
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting	
Accessories			
Items supplied		Mounting bracket: 1	
		Allen key: 1	
		washers: 2 x A5,3	

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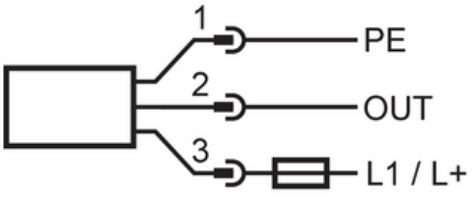
Remarks

Remarks	Recommendation: Check the safe functioning of the unit after a short circuit.
	5 positions of the active zone possible
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: C; Contacts: 3, gold-plated; Locking: brass, white bronze coated





1	PE	
2	OUT	DO (NO)
3	L1 / L+	

DO: digital output; NO: normally open