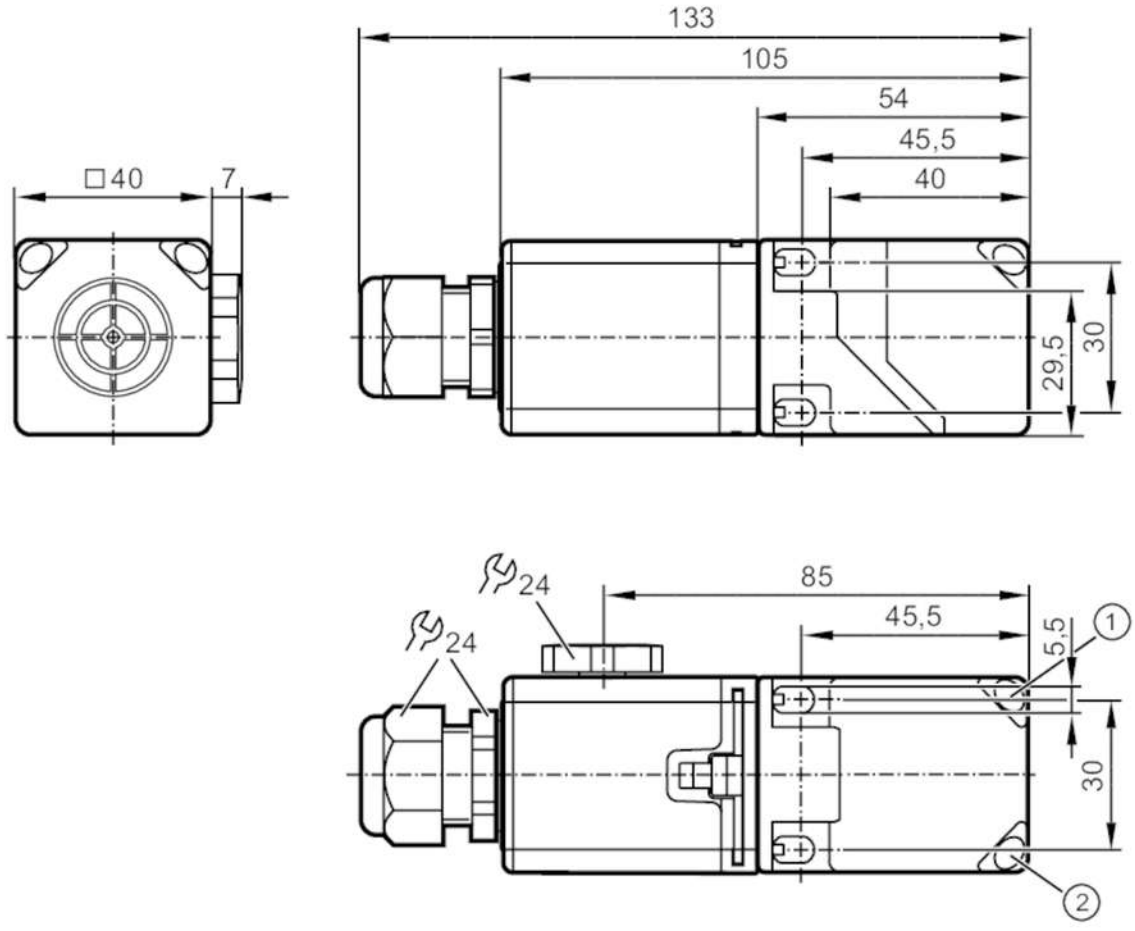
IM0059

Inductive sensor

IME2040-FRKA



1 LED yellow
2 LED green

CE

Product characteristics		
Output function		normally open / normally closed; (programmable)
Sensing range	[mm]	40
Housing		rectangular
Dimensions	[mm]	40 x 40 x 105
Electrical data		
Frequency AC	[Hz]	45...65
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		yes
Outputs		
Output function		normally open / normally closed; (programmable)
Max. voltage drop switching output DC	[V]	5.5
Max. voltage drop switching output AC	[V]	5.5
Minimum load current	[mA]	5

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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]	100	
Permanent current rating of switching output DC	[mA]	100	
Short-time current rating of switching output	[mA]	î: 0,6 A (20 ms / 0,5 Hz)	
Switching frequency AC	[Hz]	10	
Switching frequency DC	[Hz]	10	
Notes on switching frequency	[Hz]	only for resistive loads; 2 Hz for utilisation category AC-140	
Type of short-circuit protection		pulsed	
Short-circuit proof		yes	
Overload protection		yes	
Detection zone			
Sensing range	[mm]	40	
Real sensing range Sr	[mm]	40 ± 10 %	
Operating distance	[mm]	0...32.4	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	1...20	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 65; IP 67	
Tests / approvals			
EMC		EN 60947-5-2	2008-08
Mechanical data			
Weight	[g]	237.8	
Housing		rectangular	
Mounting		non-flush mountable	
Dimensions	[mm]	40 x 40 x 105	
Materials		PC; PA; stainless steel	
Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	1x LED, green
Remarks			
Pack quantity		1 pcs.	

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Electrical connection

screw terminals: 0.34...2.5 mm²; Cable sheath: Ø 5...9 mm

Connection

