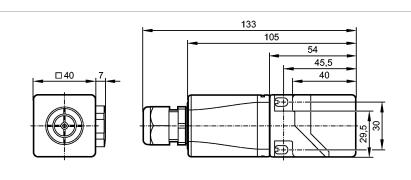
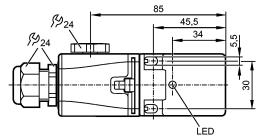
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## IM002A

IME2040-FBOA/3D







# CE

Product characteristics		
Inductive sensor		
Rectangular, plastics		
Terminals		
ATEX approval		
Group II, category 3D		
Sensing range 40 mm; [nf] no	n-flush r	nountable
Electrical data		
Electrical design		AC/DC
Operating voltage	[V]	20250 AC/DC
Protection class		II
Reverse polarity protection		no
Outputs		
Output function		normally open / closed programmable
Voltage drop	[V]	< 6.5 AC / < 6 DC
Minimum load current	[mA]	5
Leakage current	[mA]	< 2.5 (250 V AC) / < 1.3 (130 V AC) / < 0.8 (24 V DC)
Current rating		
- Current rating (continuous)	[mA]	150 AC / 100 DC
- Current rating (peak)	[mA]	î: 2.2 A (20 ms / 0.5 Hz)
Short-circuit proof		no
Overload protection		no
Switching frequency	[Hz]	10; only for resistive loads; 2 Hz for utilisation category AC-140
Monitoring range		
Sensing range	[mm]	40
Real sensing range (Sr)	[mm]	40 ± 10 %
Operating distance	[mm]	032.4
Accuracy / deviations		



### IM002A

IME2040-FBOA/3D

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 $\leq$  2 A (fast acting)

Remarks Remarks

Pack quantity

Note: miniature fuse to IEC60127-2 sheet 1,

Place the fuse outside the hazardous area.

[piece]



#### Inductive sensors

Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2
Hysteresis	[% of Sr]	120
Switch-point drift	[% of Sr]	-1010
Environment		
Ambient temperature	[°C]	-2060
Protection		IP 65 / IP 67
Tests / approvals		
Marking of the unit		€ II 3D Ex tc IIIC T95°C Dc X
EMC		EN 60947-5-2 2008-08
MTTF	[Years]	554
Mechanical data		
Mounting		non-flush mountable
Housing materials		PC; PA; stainless steel
Weight	[kg]	0.246
Displays / operating ele	ments	
Output status indication	LED	yellow
Electrical connection		
Connection		terminals 0.34 up to 2.5 mm <sup>2</sup> ; cable diameter 59 mm
Wiring		
	N + -1 -	NPN 1 2 1 2 1 2 1 1 1 1 1 1 1 1
PNP 1		PNP 1 11

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5 positions of the active zone possible

Recommendation: check the unit for reliable function after a short

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circuit.