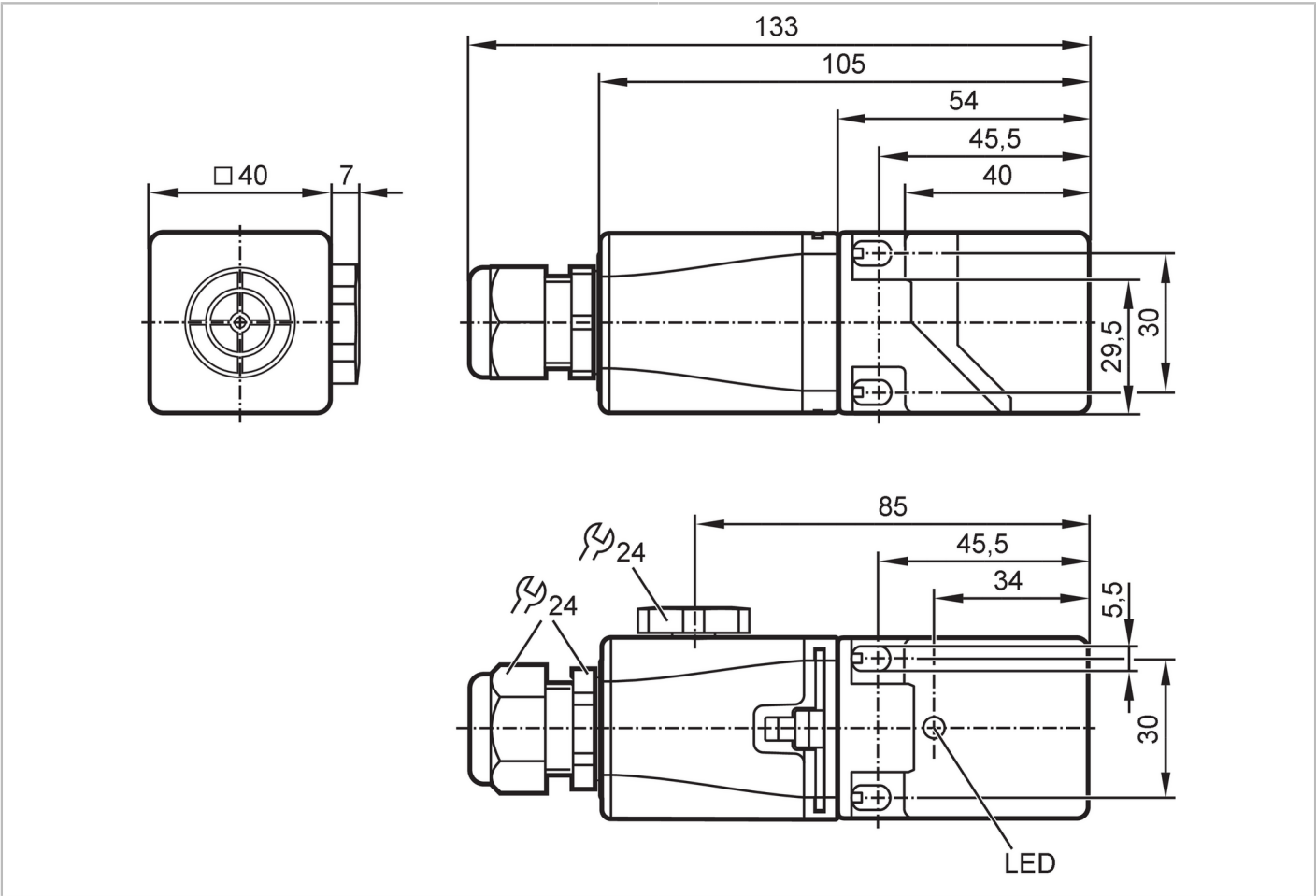


IM510A



Inductive sensor

IME4020BCPKG/3D



Product characteristics

Electrical design		PNP
Output function		complementary
Sensing range	[mm]	20
Housing		rectangular
Dimensions	[mm]	40 x 40 x 105

Application

Application	For applications in hazardous areas
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Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 15
Protection class		III
Reverse polarity protection		yes

Outputs

Electrical design		PNP
Output function		complementary
Max. voltage drop switching output DC	[V]	2.5

IM510A



Inductive sensor

IME4020BCPKG/3D

Max. leakage current	[mA]	0.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	100
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Monitoring range		
Sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2

Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...20
Switch-point drift	[% of Sr]	-10...10

Operating conditions		
Ambient temperature	[°C]	-20...60
Protection		IP 65; IP 67

Tests / approvals		
Approval		BVS 20 ATEX E 056X; IECEx BVS 20.0043X
ATEX marking		Ex II 3D Ex tc IIIC T95°C Dc
EMC		EN 60947-5-2
MTTF	[years]	1326

Mechanical data		
Weight	[g]	244.5
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	40 x 40 x 105
Material		housing: PC black; sensing face: PC black; connection module: PA black; Mounting adapter: PC black; screw: steel galvanized

Displays / operating elements		
Display	Switching status	1 x LED, yellow

Remarks		
Pack quantity		1 pcs.

IM510A



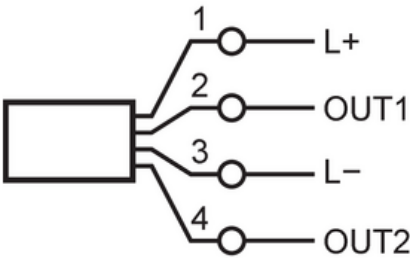
Inductive sensor

IME4020BCPKG/3D

Electrical connection - plug

terminals: 0.34...1.5 mm²; Cable sheath: Ø 5...9 mm

Connection



1	L+	
2	OUT1	DO1 (NC)
3	L-	
4	OUT2	DO2 (NO)

DO: digital output; NO: normally open; NC: normally closed