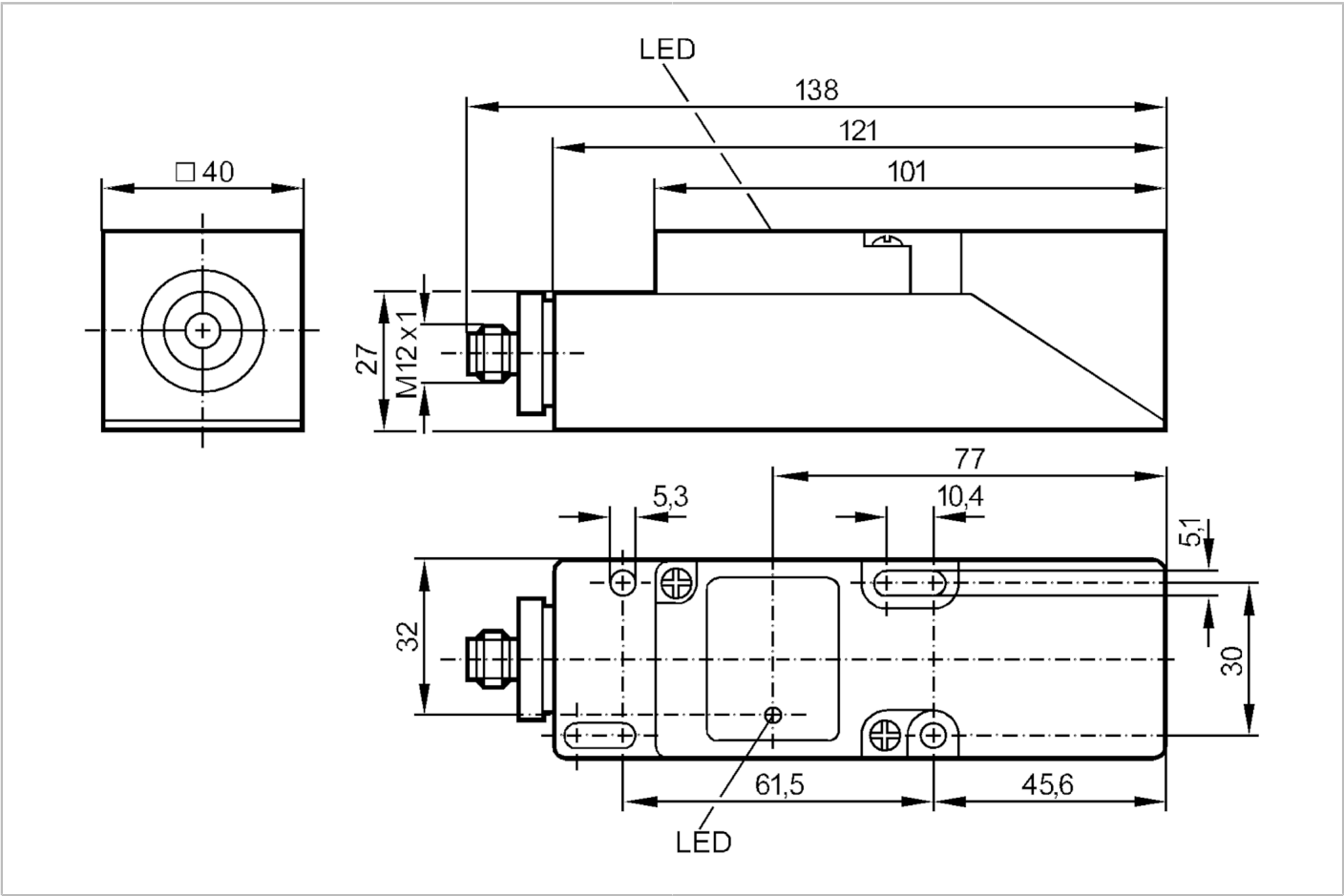


IM5044



Inductive sensor

IME3020-FPKG/US-100-DPX



Product characteristics

Electrical design	PNP
Output function	normally open / closed; (selectable)
Sensing range [mm]	20
Housing	rectangular
Dimensions [mm]	40 x 40 x 120

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	5; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open / closed; (selectable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	300

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Inductive sensor

IME3020-FPKG/US-100-DPX

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...15	
Switch-point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 67	
Tests / approvals			
EMC	EN 61000-4-2 ESD		4 kV CD
	EN 61000-4-3 HF radiated		3 V/m
	EN 61000-4-4 Burst		2 kV
	EN 61000-4-6 HF conducted		3 V
	EN 55011		class B
MTTF	[years]	1727	
UL approval	Ta		0...40 °C
	Enclosure type		Type 1
	voltage supply		Hazardous voltage
	File number UL		E174191
Mechanical data			
Weight	[g]	183.5	
Housing		rectangular	
Mounting		non-flush mountable	
Dimensions	[mm]	40 x 40 x 120	
Material		PPE	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
Remarks			
Remarks		5 positions of the active zone possible	
		Cut link to program as N.C.	
Pack quantity		1 pcs.	

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Inductive sensor

IME3020-FPKG/US-100-DPX

Electrical connection - plug

Connector: 1 x M12; coding: A



Connection

