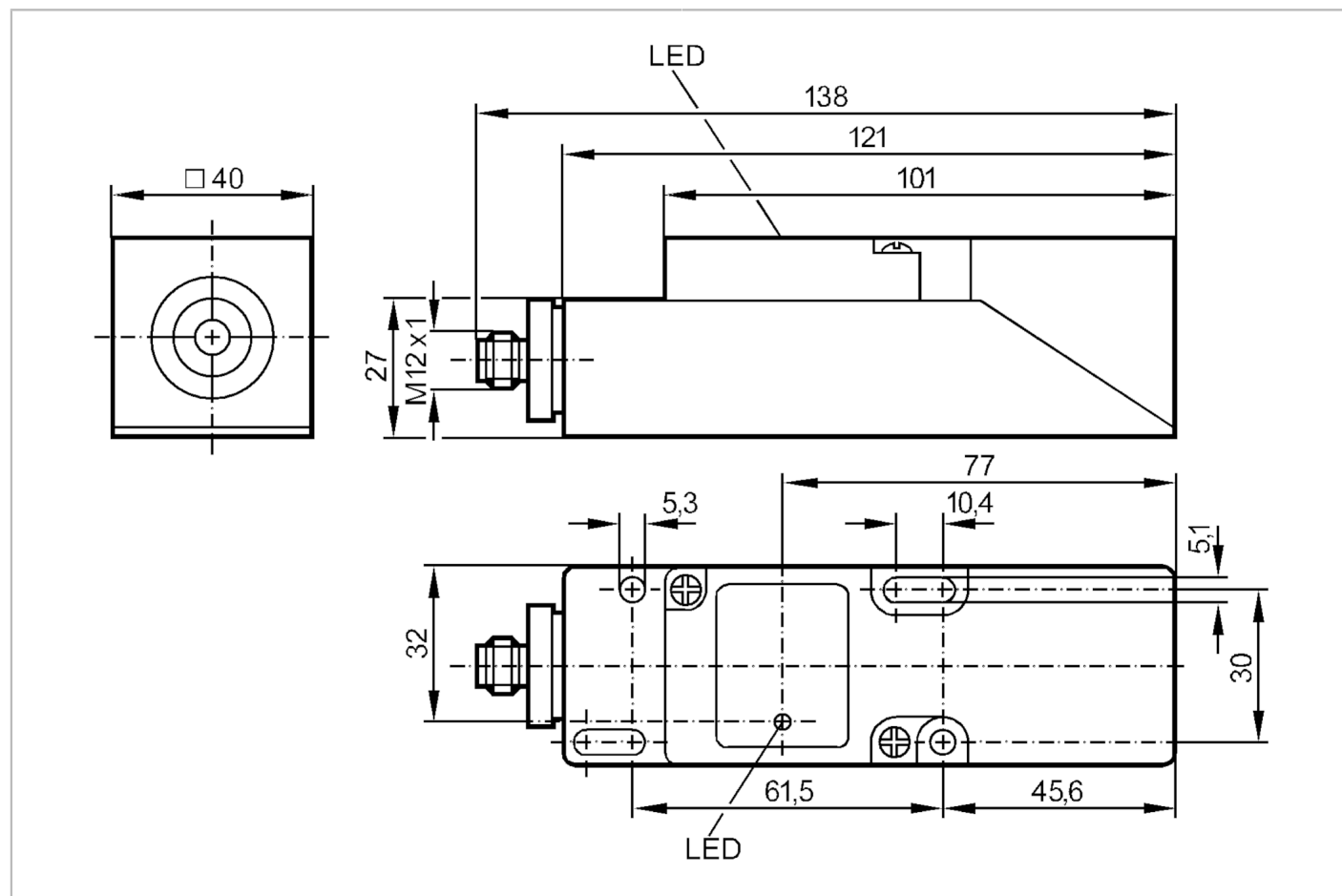


IM8501



Inductive sensor

IME2020FRKG/US100IRF



Product characteristics

Electrical design	PNP/NPN
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...55 DC
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Max. voltage drop switching output DC [V]	4.6
Minimum load current [mA]	4
Max. leakage current [mA]	1
Permanent current rating of switching output DC [mA]	400
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Overload protection	yes

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Monitoring range		
Sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	3...15
Switch-point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
Mechanical data		
Weight	[g]	199.58
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		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12; coding: A		
		

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Connection

