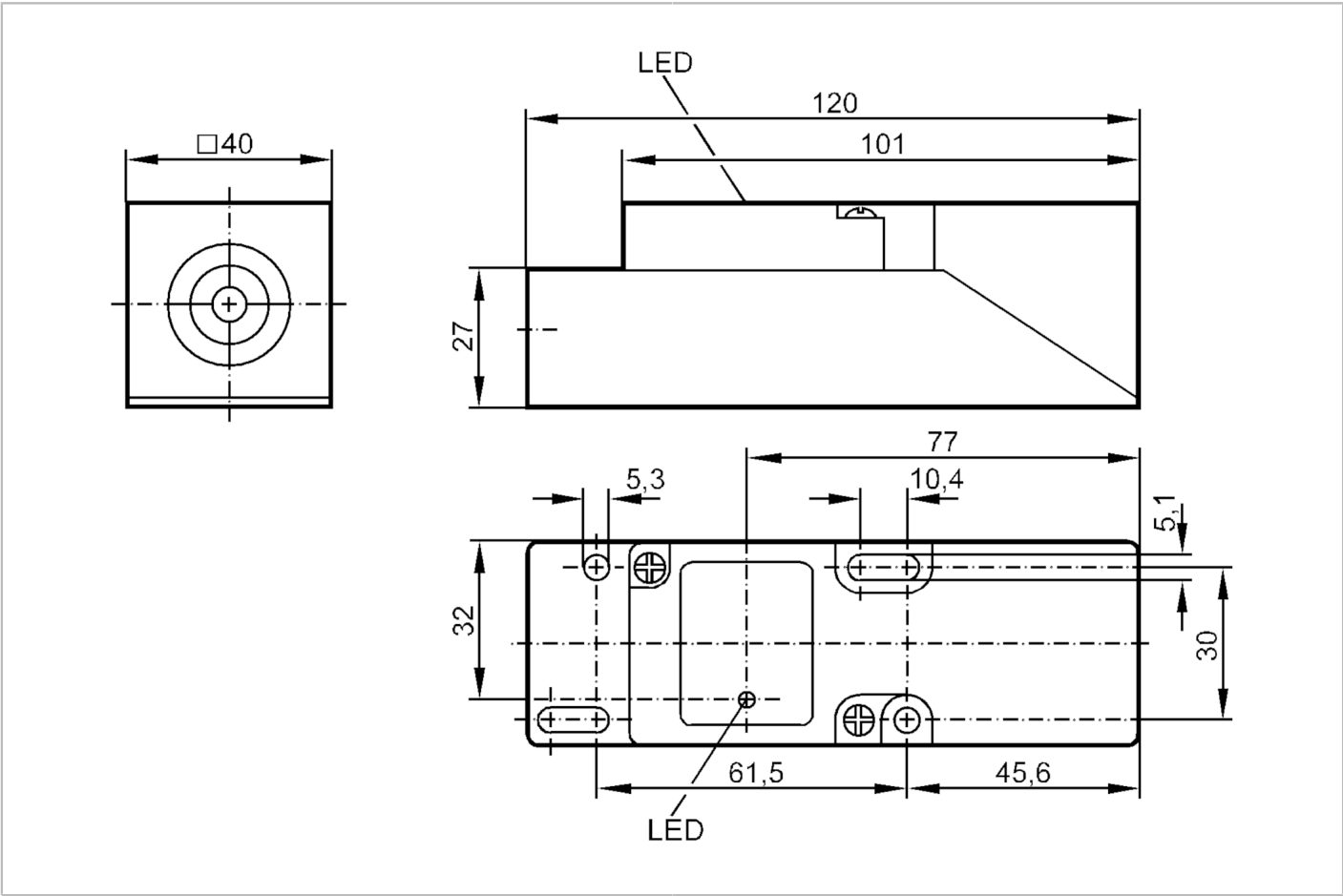


IM5054



Inductive sensor

IME3015BFPKG/0.PG-VERSCH.O.V.



Product characteristics

Electrical design	PNP
Output function	normally open / closed; (selectable)
Sensing range [mm]	15
Housing	rectangular

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (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]	250
Short-circuit protection	yes

IM5054



Inductive sensor

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Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Monitoring range		
Sensing range	[mm]	15
Real sensing range Sr	[mm]	15 ± 10 %
Operating distance	[mm]	0...12.1
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 65	
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]	2234
Mechanical data		
Weight	[g]	168
Housing	rectangular	
Mounting	flush mountable	
Material	PPE	
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Remarks		
Remarks	5 positions of the active zone possible cable gland (E11270) to be ordered separately	
Pack quantity	1 pcs.	

IM5054



Inductive sensor

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Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5

Connection

