IV5014

Inductive sensor

IVE4015-CPKG/3D

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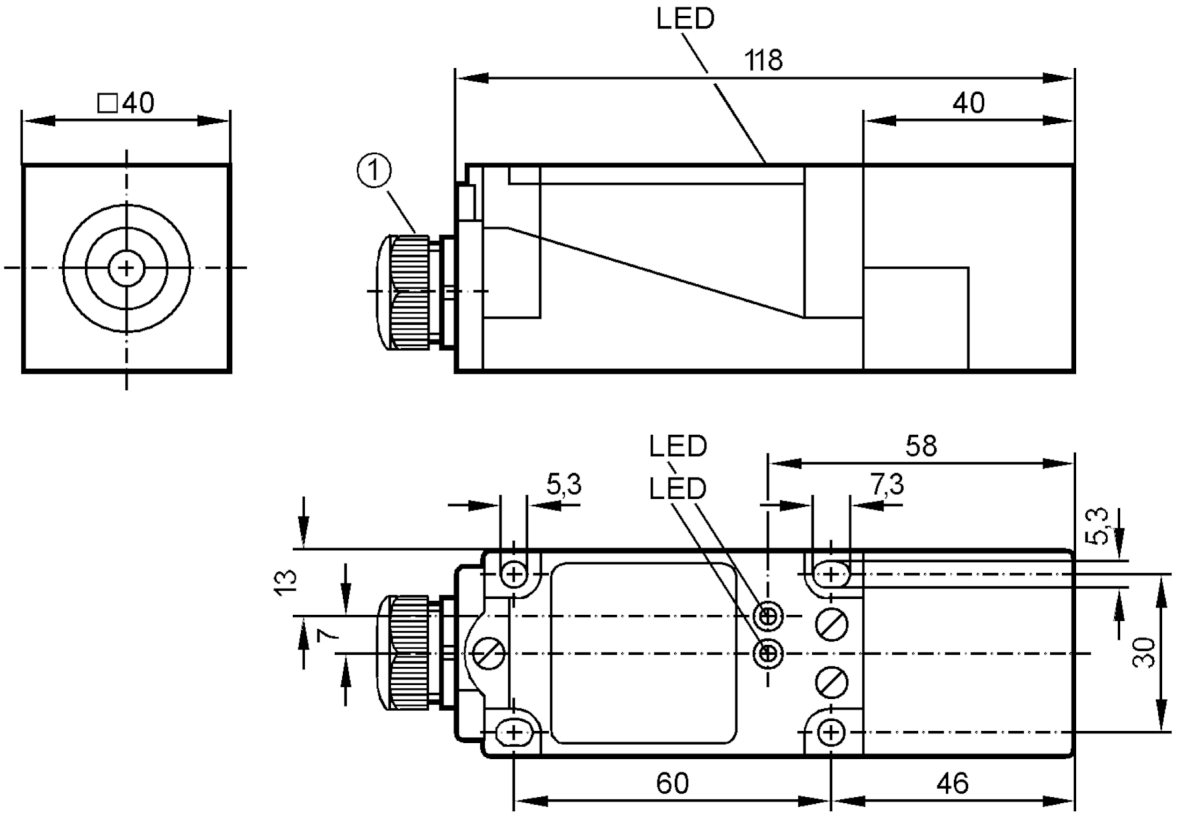

1 Cable gland

CE

Product characteristics		
Electrical design		PNP
Output function		complementary
Sensing range	[mm]	15
Housing		rectangular
Dimensions	[mm]	40 x 40 x 118
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	20; (24 V)
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		complementary
Max. voltage drop switching output DC	[V]	3

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Permanent current rating of switching output DC	[mA]	100	
Short-time current rating of switching output	[mA]	100	
Switching frequency DC	[Hz]	300	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Detection zone			
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: 0.85 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	1...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-20...60	
Protection		IP 54; (when used outside the hazardous area: IP 67)	
Tests / approvals			
ATEX marking		II 3D Ex tD A22 IP54 T80°C X	
EMC		EN 60947-5-2	
Mechanical data			
Weight	[g]	0.251	
Housing		rectangular	
Mounting		flush mountable	
Dimensions	[mm]	40 x 40 x 118	
Materials		PBT	
Tightening torque for cable gland	[Nm]	3.5	
Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	1 x LED, green
Remarks			
Remarks		5 positions of the active zone possible	
Pack quantity		1 pcs.	

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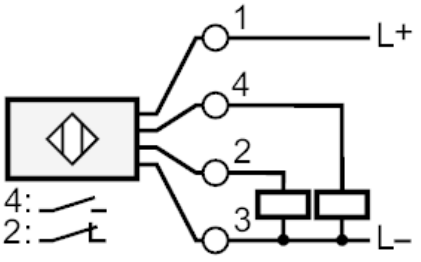
Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 5.5...13 mm; Cable gland: M20 X 1.5

Connection