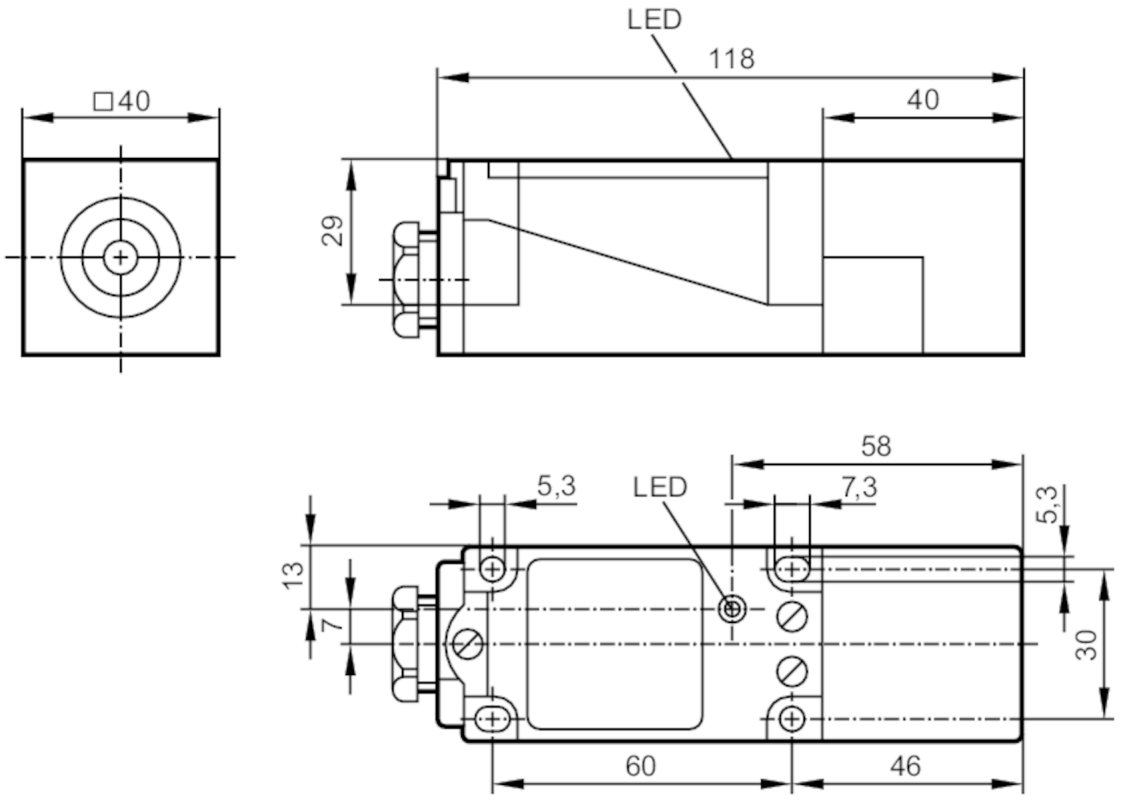
IV0008

Inductive sensor

IVE2020-FBKA

phase-out article

Alternative articles: IV0009
When selecting an alternative article and accessories please note that technical data may differ!



CE

Product characteristics		
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	20
Housing		rectangular
Dimensions	[mm]	40 x 40 x 118
Electrical data		
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		yes
Outputs		
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	7
Max. voltage drop switching output AC	[V]	7
Minimum load current	[mA]	8
Max. leakage current	[mA]	2.5

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Permanent current rating of switching output AC	[mA]	500	
Permanent current rating of switching output DC	[mA]	500	
Switching frequency AC	[Hz]	25	
Switching frequency DC	[Hz]	25	
Short-circuit protection		yes	
Overload protection		yes	
Detection zone			
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 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	1...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-25...70	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
Mechanical data			
Weight	[g]	258.4	
Housing		rectangular	
Mounting		non-flush mountable	
Dimensions	[mm]	40 x 40 x 118	
Materials		PBT	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Remarks			
Remarks		Cable gland (E11270) to be ordered separately	
Pack quantity		1 pcs.	

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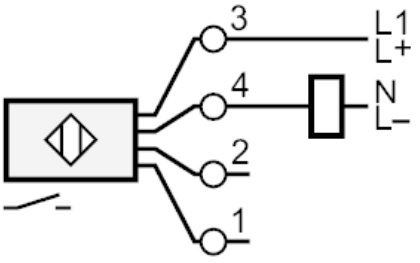
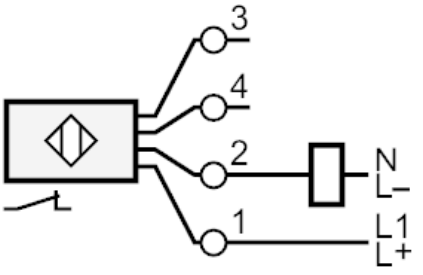
Electrical connection

terminals: ...2.5 mm²; Cable gland: M20 X 1.5

Connection