IM5085

Inductive sensor

IMC3015UBPKG/SC/US-100-DPS

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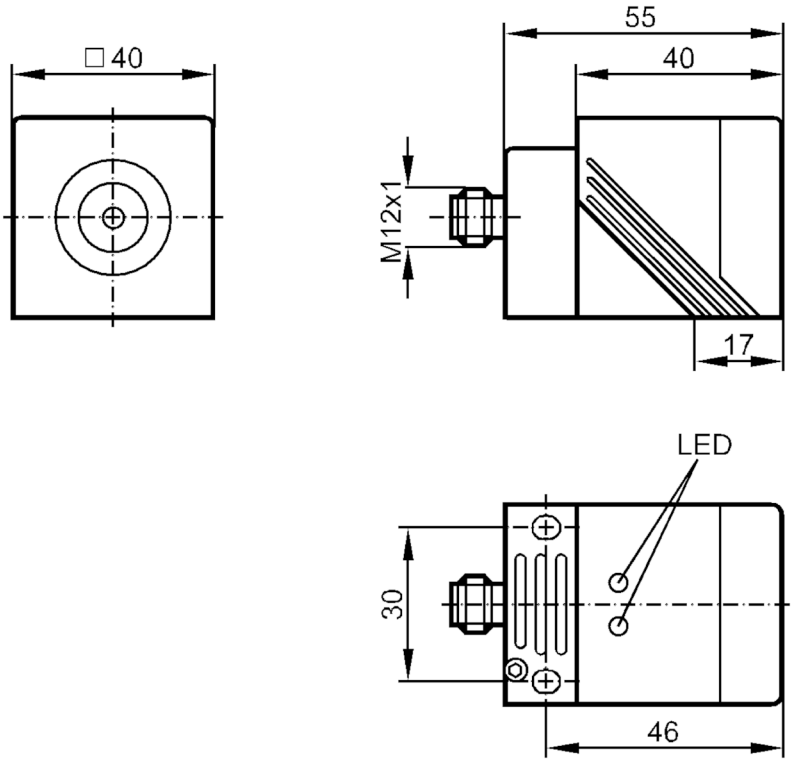
Alternative articles: IM5058

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	15
Housing		rectangular
Dimensions	[mm]	40 x 40 x 62
Application		
System		gold-plated contacts; Magnetic-field immune; weld coated
Magnetic-field immune		yes
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	15; (24 V)
Protection class		II
Reverse polarity protection		yes

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Outputs			
Electrical design		PNP	
Output function		normally open	
Max. voltage drop switching output DC	[V]	2.5	
Permanent current rating of switching output DC	[mA]	250	
Switching frequency DC	[Hz]	300	
Short-circuit protection		yes	
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...70	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
Mechanical data			
Housing		rectangular	
Mounting		flush mountable	
Dimensions	[mm]	40 x 40 x 62	
Material		housing: PPE; sensing face: PPE weld coated; end cap: PPS; clamp: PPS	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
		Power	1 x LED, green
Accessories			
Items supplied		Mounting bracket: 1	
		Allen key: 1	
Remarks			
Remarks		5 positions of the active zone possible	
Pack quantity		1 pcs.	

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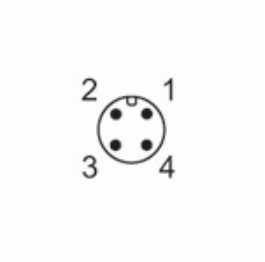
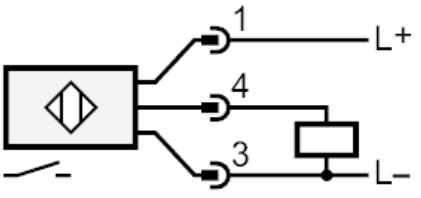
Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection