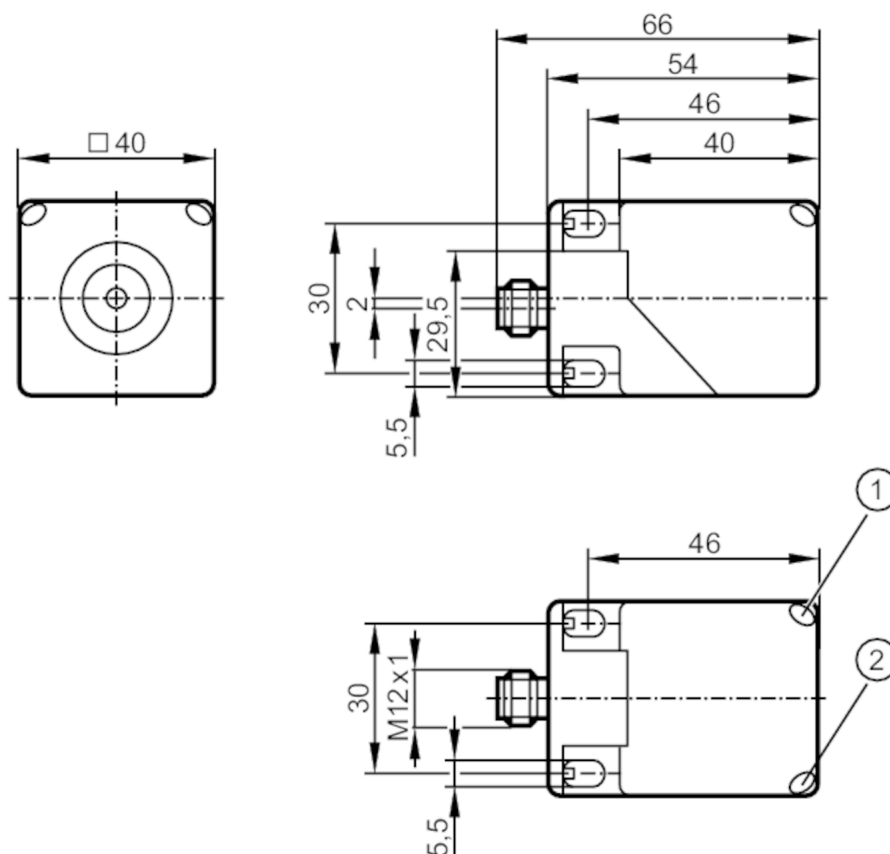


IM5172



Inductive sensor with IO-Link

IMC3020BFRKG/IO/US-100



- 1 LED yellow
- 2 LED green



Made in Germany

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	10
Protection class		III
Reverse polarity protection		yes

Outputs

Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	100
Electrical design		PNP/NPN
Short-circuit protection		yes
Overload protection		yes

Range

Measuring range	[mm]	2.1...21
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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.8 / brass: 0.5 / aluminium: 0.5 / copper: 0.4	
Hysteresis [% of Sr]	3...15	
Linearity error of analogue output [%]	± 2 %; (of the final value of the measuring range)	
Repeatability analogue output [%]	± 1 %; (of the final value of the measuring range)	
Temperature coefficient	± 10 %; (of the final value of the measuring range)	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9 CDV	
IO-Link device ID	791d / 000317h	
Profiles	Smart Sensor: Device Identification; Device Diagnosis; Device Teach Channel; Binary Data Channel; Process Data Variable	
SIO mode	yes	
Required master port type	A	
Min. process cycle time [ms]	3	
Operating conditions		
Ambient temperature [°C]	-25...80	
Protection	IP 67	
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF [years]	632	
UL Approval no.	A009	
Mechanical data		
Weight [g]	147.2	
Housing	rectangular	
Sensing face	5 positions selectable	
Mounting	flush mountable	
Dimensions [mm]	40 x 40 x 54	
Materials	PA; connector thread: brass white bronze coated	
Displays / operating elements		
Display	operation	LED, green
	SIO mode	
	output stage supplied with current	LED, yellow lights
	IO-Link mode	
	target in measuring range	LED, yellow lights
	target outside measuring range	LED, yellow flashing
Remarks		
Pack quantity	1 pcs.	

IM5172

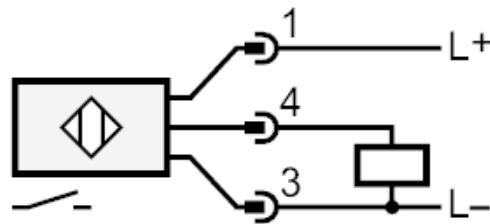


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IMC3020BFRKG/IO/US-100

Electrical connection

Connector: 1 x M12



4: OUT / IO-Link