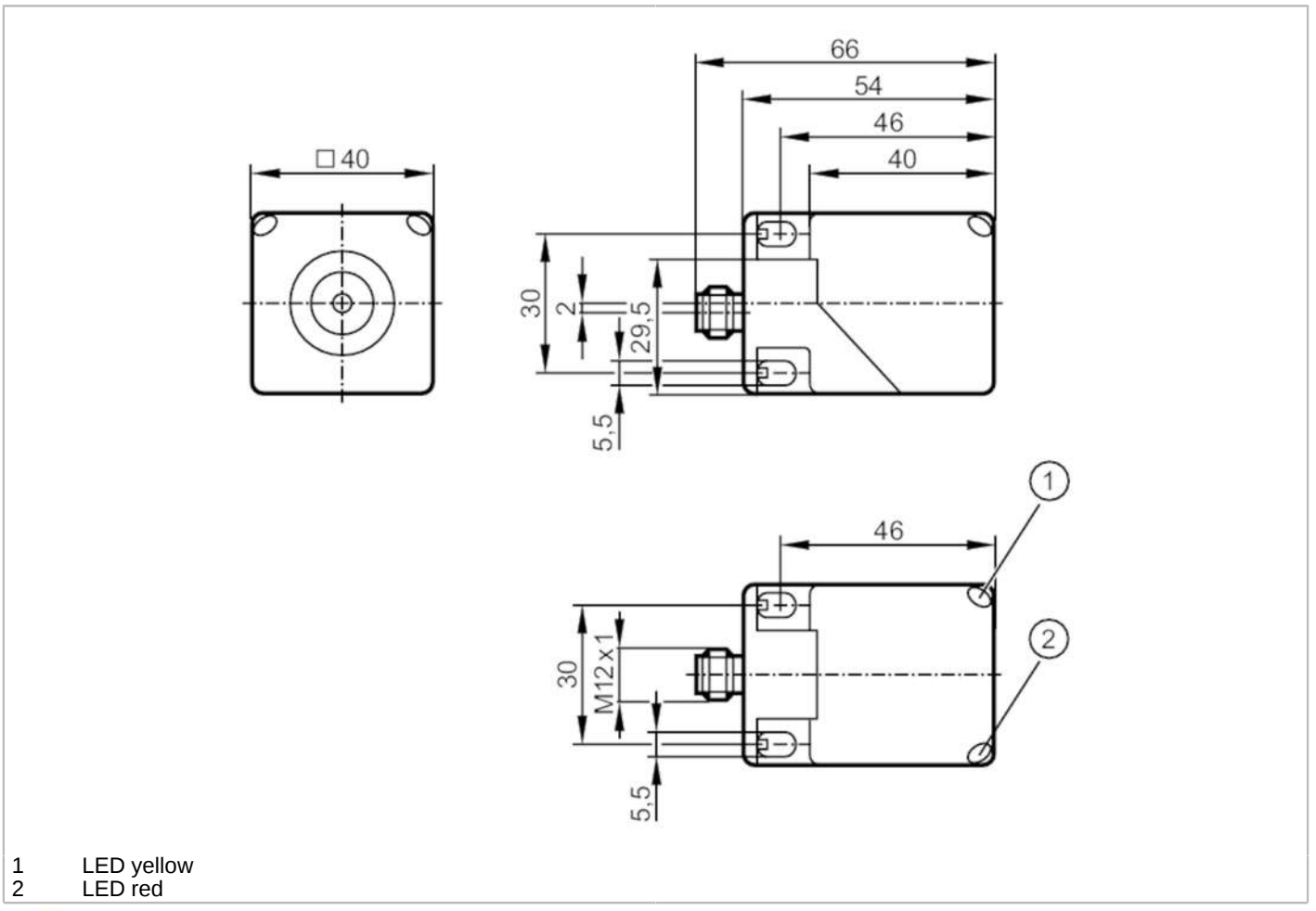
IM5118

Inductive AS-Interface sensor

IMC2015-ASI /US-100-DPS



1 LED yellow
2 LED red

Product characteristics		
Electrical design		AS-i
Sensing range	[mm]	15
Housing		rectangular
Dimensions	[mm]	40 x 40 x 54
Electrical data		
Operating voltage	[V]	26.5...31.6 DC
Current consumption	[mA]	< 35
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		AS-i
Switching frequency DC	[Hz]	100
Detection zone		
Sensing range	[mm]	15
Operating distance	[mm]	0...12.1
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4

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Hysteresis	[% of Sr]	1...20				
Switch point drift	[% of Sr]	-10...10				
Operating conditions						
Ambient temperature	[°C]	-25...70				
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]	958				
AS-i classification						
AS-i version		3.0				
Extended addressing mode		yes				
AS-i I/O configuration	[hex]	0				
AS-i ID code	[hex]	A.E				
AS-i certificate		71901				
Assignment of the data bits		Designation	switching signal	unsafe zone	readiness for operation	not used
		status = 0	target outside the active zone, yellow LED off	target within the uncertain zone, red LED flashes	unit faulty or distance to medium < 10 %, red LED flashes	-
		status = 1	target within the active zone, yellow LED on	target outside the uncertain zone, red LED off	readiness for operation, red LED off	default value
Mechanical data						
Weight	[g]	151.5				
Housing		rectangular				
Sensing face		5 positions selectable				
Mounting		flush mountable				
Dimensions	[mm]	40 x 40 x 54				
Materials		PBT; PPE				
Displays / operating elements						
Display		switching status	1 x LED, yellow			
		function	1 x LED, red			
Remarks						
Pack quantity		1 pcs.				

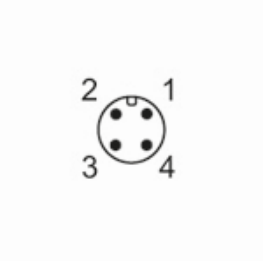
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Electrical connection - plug

Connector: 1 x M12; coding: A; Locking: locking, rotatable



Connection

