

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

Monitoring range

Sensing range	[mm]	15
Operating distance	[mm]	0...12.1

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 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				
Data bits	Description	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
Material	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

