

IMC2015-ASI /US-100-DPS



Operating voltage	[V]	26.5...31.6 DC
Current consumption	[mA]	< 35
Protection class		III
Reverse polarity protection		yes

Electrical design	AS-i
Switching frequency DC [Hz]	100

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

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10



Inductive AS-Interface sensor

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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 possible		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]	148				
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.				
Electrical connection - plug						
Connector: 1 x M12; Locking: locking, rotatable						

IM5118



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Connection

