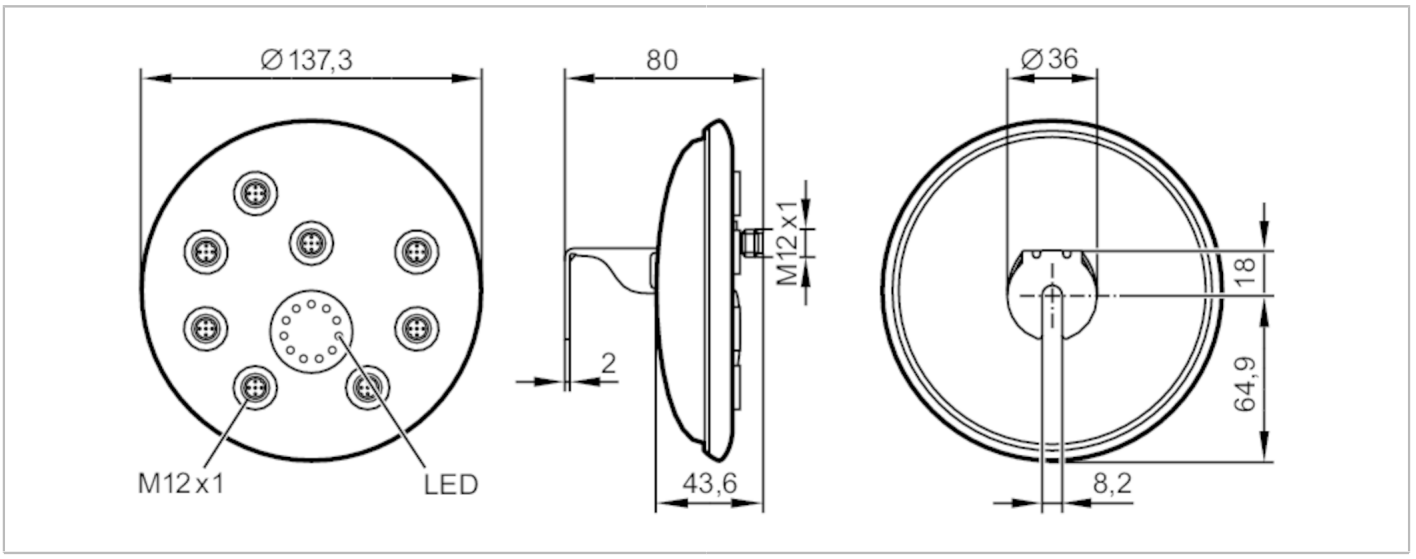
AC2904

AS-Interface ProcessLine module

ProcessLine 4DI 3DOT IP69K



Application		
Application		hygienic and wet areas in the food industry
Electrical data		
Operating voltage	[V]	26.5...31.6 DC
Max. current consumption from AS-i	[mA]	240
Additional voltage supply	[V]	20...30 DC; (AUX)
Max. current consumption from additional supply	[mA]	2100; (AUX)
Integrated watchdog		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital inputs: 4; Number of digital outputs: 3
Inputs		
Number of digital inputs		4
Input circuit of digital inputs		PNP; (type 2 according to IEC 61131-2)
Sensor supply of the inputs		AS-i
Power supply	[V]	18...30
Max. total current rating of inputs	[mA]	200
Input current High	[mA]	6...10
Input current Low	[mA]	0...2
Switching level high	[V]	> 11
Digital inputs protected against short circuits		yes
Outputs		
Number of digital outputs		3
Circuit		PNP
Voltage range DC	[V]	20...30; (AUX)
Max. current load per output	[mA]	700; (utilisation category DC-13 (control of electromagnets): 20 W (IEC 60947-5-1))

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Max. current load outputs total	[A]	2.1				
Short-circuit proof		yes				
Electrically separated		yes				
Operating conditions						
Ambient temperature	[°C]	-5...70				
Max. relative air humidity	[%]	90; (linearly decreasing to 50 % (40 °C) non condensing)				
Max. height above sea level	[m]	2000				
Protection		IP 68; IP 69K				
Pollution degree		2				
Tests / approvals						
EMC		EN 62026-2				
		EN 61000-6-2				
MTTF	[years]	160				
AS-i classification						
AS-i version		2.1				
Extended addressing mode		yes				
AS-i master profile		M2; M3; M4				
AS-i profile		S-7.A.E				
AS-i I/O configuration	[hex]	7				
AS-i ID code	[hex]	A.E				
AS-i certificate		101107				
Assignment of the data bits		data bit	D0	D1	D2	D3
		input	1	2	3	4
		socket	I-1/2	I-1/2 I-2	I-3/4	I-3/4 I-4
		pin	4	2 4	4	2 4
		Output	1	2	3	-
		socket	O-1	O-2	O-3	-
		pin	4	4	4	-
Mechanical data						
Weight	[g]	632				
Dimensions	[mm]	Ø 137.3 / L = 80				
Materials		threaded bush: stainless steel (316L/1.4404); LED-Fenster: PC; O-ring: EPDM; Protective cap: PP				
Displays / operating elements						
Display		operation	LED, green			
		errors	LED, red			
		function	LED, yellow			
Electrical connection						
Module connection		M12				
Accessories						
Accessories (optional)		Torque wrench:, E70390				
		Protective cap: M12, E70297				
		Flat cable splitter box:, E70354				

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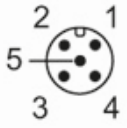
Remarks

Remarks	Inputs and outputs must be electrically isolated.
	Do not connect any of the following points to an external potential:
	I-, I+, I-1/2, I-2, I-3/4, I-4
	The connections are electrically connected with the AS-i cable.
	The round cable connected to AS-i/AUX should not be longer than 2 m.
Pack quantity	1 pcs.

Electrical connection - AS-i

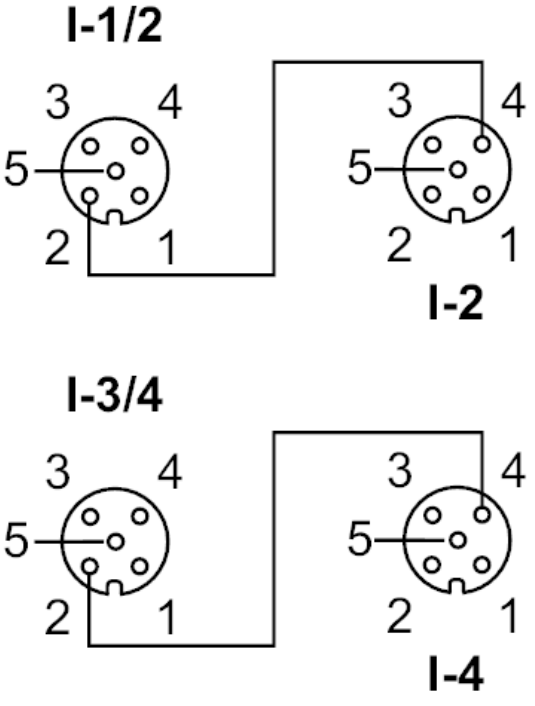
Connector: M12; coding: A; Tightening torque: 1.2...1.4 Nm



1	AS-i+
2	0 V AUX -
3	AS-i -
4	+24 V AUX +
5	functional earth FE

Electrical connection - Inputs

Connection



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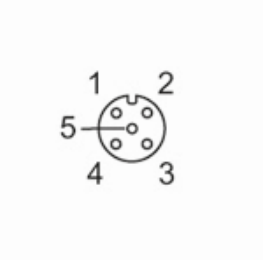
Connector: M12; coding: A; Tightening torque: 1.2...1.4 Nm

1	Sensor supply L+
3	Sensor supply L-
5	functional earth

Electrical connection - Outputs

Connector: M12; coding: A; Tightening torque: 1.2...1.4 Nm



3	external voltage AUX -
4	switching output
5	functional earth FE