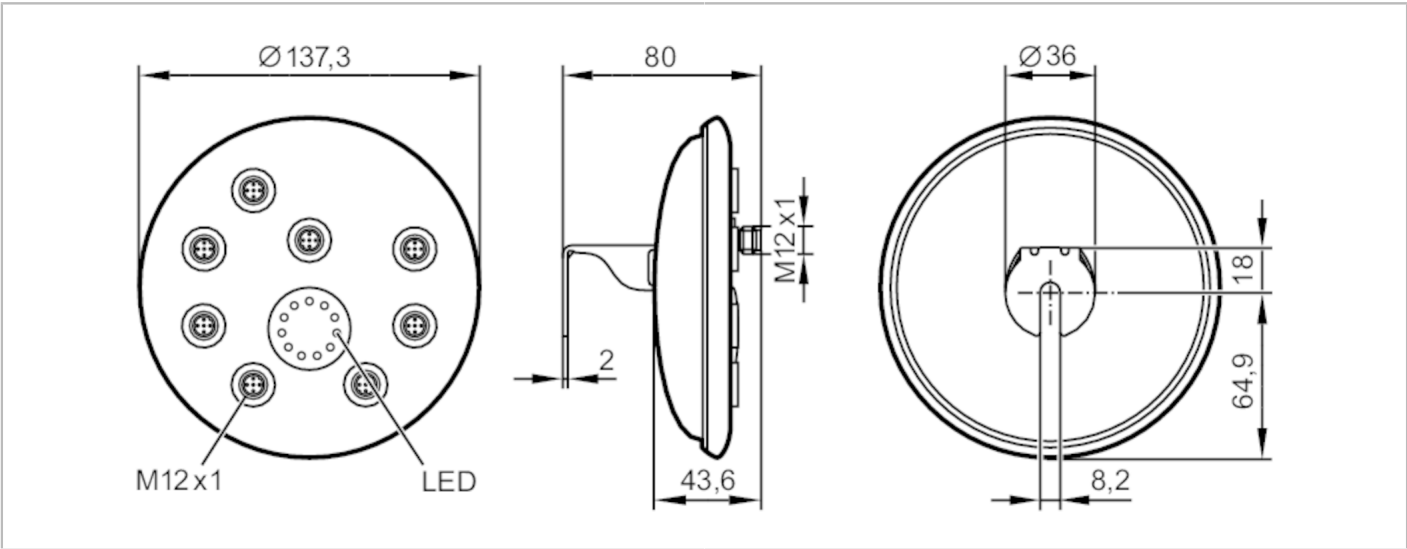


AC2904



AS-Interface ProcessLine module

ProcessLine 4DI 3DOT IP69K



Application

Application	sanitary and wet areas in the food industry
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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
Voltage 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; (utilization category DC-13 (control of electromagnets): 20 W (IEC 60947-5-1))



AS-Interface ProcessLine module

ProcessLine 4DI 3DOT IP69K

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			
Degree of soiling		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			
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			
Housing		tubular			
Type of mounting		Mounting base			
Dimensions	[mm]	Ø 137.3 / L = 80			
Material		threaded bush: stainless steel (1.4404 / 316L); LED-Fenster: PC; O-ring: EPDM; Protective cap: PP			
Displays / operating elements					
Display	Power			LED, green	
	errors			LED, red	
	Function			LED, yellow	
Electrical connection					
Module connection		M12			



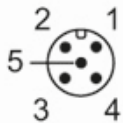
AS-Interface ProcessLine module

ProcessLine 4DI 3DOT IP69K

Accessories	
Accessories (optional)	Torque wrench:, E70390
	Protective cap: M12, E70297
	Flat cable splitter box:, E70354
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.
Pack quantity	The round cable connected to AS-i/AUX should not be longer than 2m.
	1 pcs.

Electrical connection - AS-i

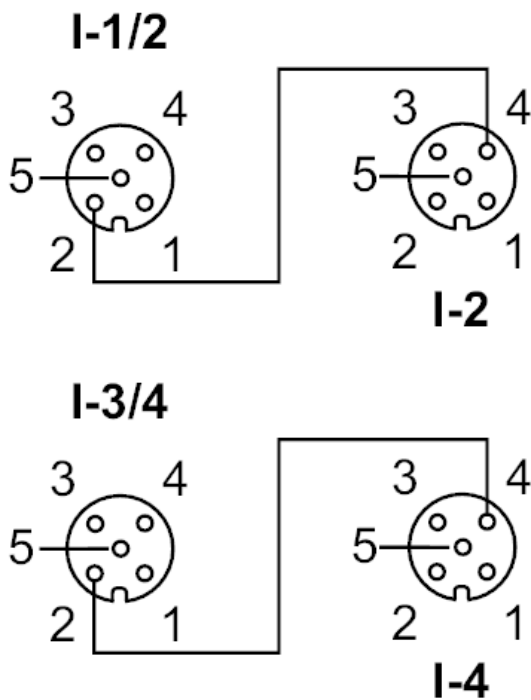
Connector: M12; coding: A; Tightening torque: 1.2...1.4 Nm



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

Electrical connection - Inputs

Connection



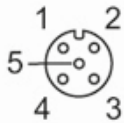
AC2904



AS-Interface ProcessLine module

ProcessLine 4DI 3DOT IP69K

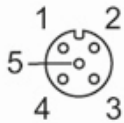
Connector: M12; coding: A; Tightening torque: 1.2...1.4 Nm



- | | |
|---|------------------|
| 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 |