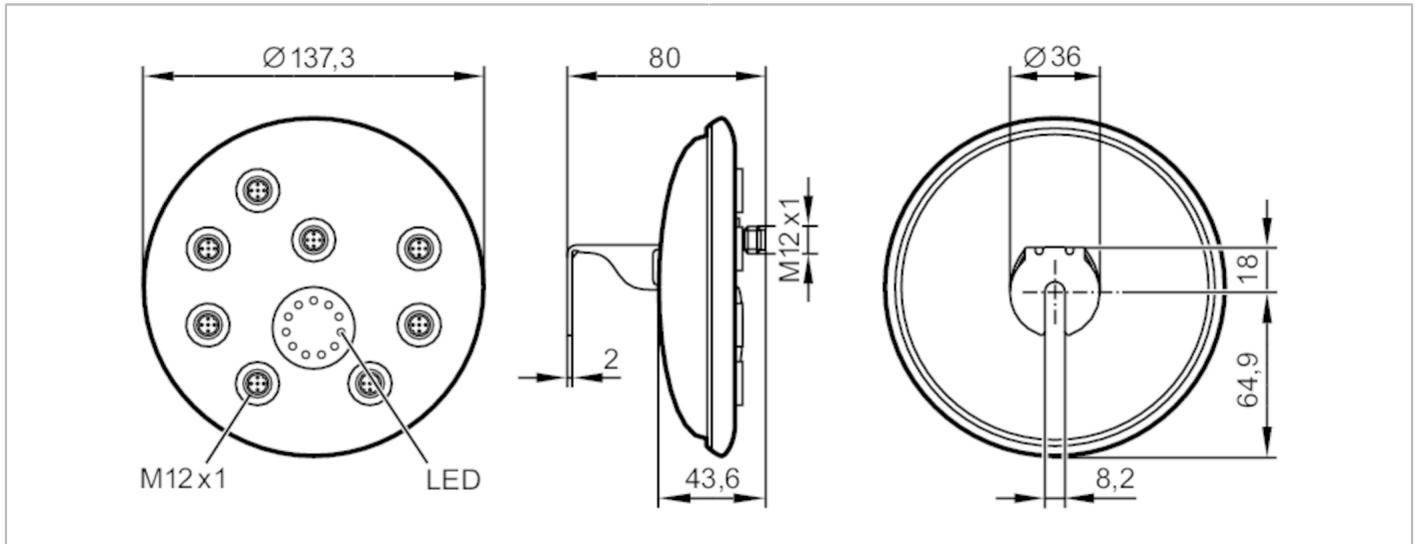


AC2904



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))

AC2904



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
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	<table border="1"> <thead> <tr> <th>data bit</th> <th>D0</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> </thead> <tbody> <tr> <td>input</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>socket</td> <td>I-1/2</td> <td>I-1/2 I-2</td> <td>I-3/4</td> <td>I-3/4 I-4</td> </tr> <tr> <td>pin</td> <td>4</td> <td>2 4</td> <td>4</td> <td>2 4</td> </tr> <tr> <td>Output</td> <td>1</td> <td>2</td> <td>3</td> <td>-</td> </tr> <tr> <td>socket</td> <td>O-1</td> <td>O-2</td> <td>O-3</td> <td>-</td> </tr> <tr> <td>pin</td> <td>4</td> <td>4</td> <td>4</td> <td>-</td> </tr> </tbody> </table>	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	-
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



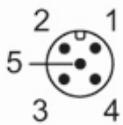
AS-Interface ProcessLine module

ProcessLine 4DI 3DOT IP69K

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

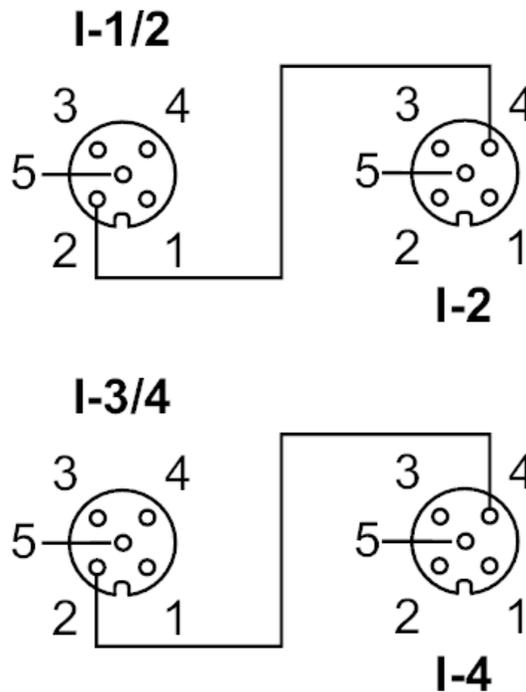
Connector: M12; coding: A; Tightening torque: 1.2...1.4 Nm



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

Electrical connection - Inputs

Connection



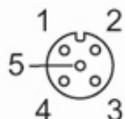
AC2904



AS-Interface ProcessLine module

ProcessLine 4DI 3DOT IP69K

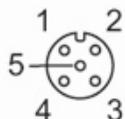
Connector: M12; coding: A; Tightening torque: 1.2...1.4 Nm



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