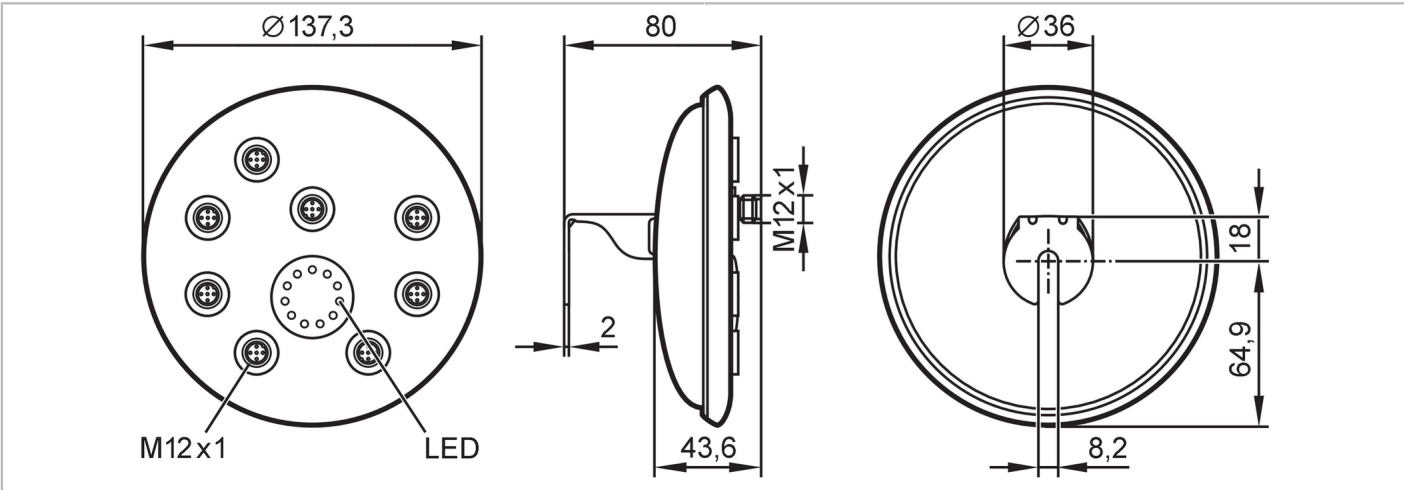


AC2904



AS-Interface ProcessLine module

ProcessLine 4DI 3DOT IP69K



Application

Application

sanitary 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
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))
Max. current load outputs total	[A]	2.1



AS-Interface ProcessLine module

ProcessLine 4DI 3DOT IP69K

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	
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	
Accessories							
Accessories (optional)		Torque wrench: E70390					
		Protective cap: M12, E70297					
		Flat cable splitter box: E70354					



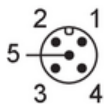
AS-Interface ProcessLine module

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 2m.
Pack quantity	1 pcs.

Electrical connection - AS-i

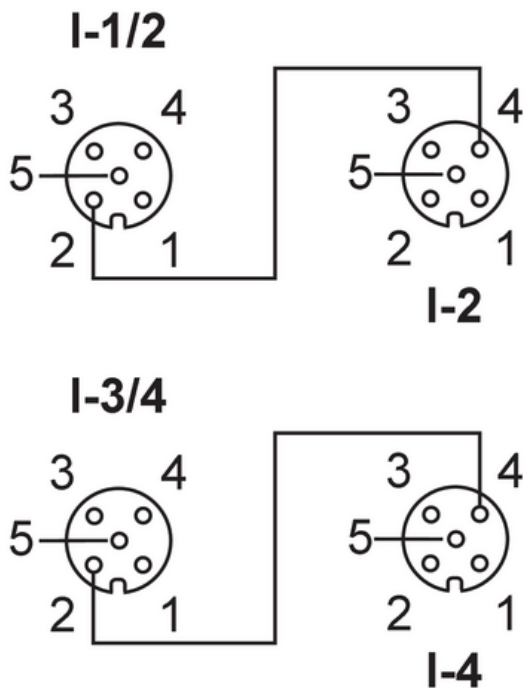
Connector: M12; coding: A; Contacts: 5; Tightening torque: 1.2...1.4 Nm



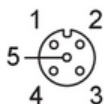
- | | |
|---|---------------------|
| 1 | AS-i+ |
| 2 | 0 V AUX - |
| 3 | AS-i - |
| 4 | +24 V AUX + |
| 5 | functional earth FE |

Electrical connection - Inputs

Connection



Connector: M12; coding: A; Contacts: 5; Tightening torque: 1.2...1.4 Nm



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

AC2904

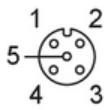


AS-Interface ProcessLine module

ProcessLine 4DI 3DOT IP69K

Electrical connection - Outputs

Connector: M12; coding: A; Contacts: 5; Tightening torque: 1.2...1.4 Nm



3	External voltage AUX -
4	Switching output
5	functional earth FE