

# Distributed I/O device - FLM DIO 4/4 M12-2A - 2736369

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The local bus device has digital inputs and outputs. Functions: 4 digital inputs, 3 ms filter time, 4 digital outputs of 2 A each, 500 kbaud/2 Mbaud selection, channel-specific diagnostics, short-circuit and overload protection, M12 fast connection technology.

## Product Features

- Flexible power supply concept
- Short-circuit and overload protection
- Diagnostic and status indicators
- SPEEDCON rapid interlock system
- Consistent connection via M12 connectors

## Key commercial data

<b>package_quantity</b>	1
<b>GTIN</b>	4017918951078

## Technical data

Note:

<b>Utilization restriction</b>	EMC: class A product, see manufacturer's declaration in the download area
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## Dimensions

<b>Width</b>	70 mm
<b>Height</b>	178 mm
<b>Depth</b>	50 mm
<b>Drill hole spacing</b>	168 mm

## Ambient conditions

<b>Ambient temperature (operation)</b>	-25 °C ... 60 °C
<b>Ambient temperature (storage/transport)</b>	-25 °C ... 85 °C
<b>Permissible humidity (storage/transport)</b>	95 %
<b>Air pressure (operation)</b>	80 kPa ... 106 kPa (up to 2000 m above sea level)
<b>Air pressure (storage/transport)</b>	70 kPa ... 106 kPa (up to 3000 m above sea level)
<b>Degree of protection</b>	IP65/67

## General

<b>Weight</b>	315 g
<b>Mounting type</b>	Wall mounting
<b>Protection class</b>	III, IEC 61140, EN 61140, VDE 0140-1

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## Technical data

### General

<b>Test section</b>	To I/O 500 V AC
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### Interfaces

<b>Name</b>	Fieldline local bus
<b>Connection method</b>	M12 connector, B-coded
<b>Designation connection point</b>	Copper cable
<b>Transmission speed</b>	500 kBit/s / 2 MBit/s
<b>Number of positions</b>	5

### Power supply for module electronics

<b>Connection method</b>	M12 connector
<b>Name</b>	$U_L$
<b>Supply voltage</b>	24 V DC
<b>Supply voltage range</b>	18 V DC ... 30 V DC IEC 61131-2 (including ripple)

### Fieldline potentials

<b>Voltage supply <math>U_L</math></b>	24 V DC
<b>Power supply at <math>U_L</math></b>	max. 4 A
<b>Current consumption from <math>U_L</math></b>	max. 50 mA (At 2 Mbaud)
<b>Current consumption from <math>U_L</math></b>	typ. 45 mA (At 2 Mbaud)
<b>Current consumption from <math>U_L</math></b>	max. 50 mA (At 500 kBaud)
<b>Current consumption from <math>U_L</math></b>	typ. 40 mA (At 500 kBaud)
<b>Voltage supply <math>U_S</math></b>	24 V DC
<b>Power supply at <math>U_S</math></b>	max. 4 A
<b>Current consumption from <math>U_S</math></b>	typ. 5 mA (plus power supply for sensors)
<b>Current consumption from <math>U_S</math></b>	max. 600 mA
<b>Voltage supply <math>U_{A11}</math></b>	24 V DC
<b>Power supply at <math>U_{A11}</math></b>	max. 4 A
<b>Current consumption at <math>U_{A11}</math></b>	typ. 3 mA
<b>Current consumption at <math>U_{A11}</math></b>	max. 4 A
<b>Voltage supply <math>U_{A12}</math></b>	24 V DC
<b>Power supply at <math>U_{A12}</math></b>	max. 4 A
<b>Current consumption at <math>U_{A12}</math></b>	typ. 3 mA
<b>Current consumption at <math>U_{A12}</math></b>	max. 4 A

### Digital inputs

<b>Input name</b>	Digital inputs
<b>Connection method</b>	M12 connector
<b>Connection method</b>	2, 3, 4-wire
<b>Number of inputs</b>	4
<b>Protective circuit</b>	Protection against polarity reversal
<b>Filter time</b>	3 ms
<b>Input characteristic curve</b>	IEC 61131-2 type 1

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## Technical data

### Digital inputs

<b>Input voltage</b>	24 V DC
<b>Input voltage range "0" signal</b>	-30 V DC ... 5 V DC
<b>Input voltage range "1" signal</b>	13 V DC ... 30 V DC

### Digital outputs

<b>Output name</b>	Digital outputs
<b>Connection method</b>	M12 connector
<b>Connection method</b>	2, 3-wire
<b>Number of outputs</b>	4
<b>Protective circuit</b>	Short-circuit protection
<b>Output voltage</b>	24 V DC
<b>Maximum output current per channel</b>	2 A

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27250302
<b>eCl@ss 4.1</b>	27250302
<b>eCl@ss 5.0</b>	27250302
<b>eCl@ss 5.1</b>	27242604
<b>eCl@ss 6.0</b>	27242604
<b>eCl@ss 7.0</b>	27242604
<b>eCl@ss 8.0</b>	27242604

### ETIM

<b>ETIM 2.0</b>	EC001430
<b>ETIM 3.0</b>	EC001599
<b>ETIM 4.0</b>	EC001599
<b>ETIM 5.0</b>	EC001599

### UNSPSC

<b>UNSPSC 6.01</b>	43172015
<b>UNSPSC 7.0901</b>	43201404
<b>UNSPSC 11</b>	43172015
<b>UNSPSC 12.01</b>	43201404
<b>UNSPSC 13.2</b>	43201404

## approvals

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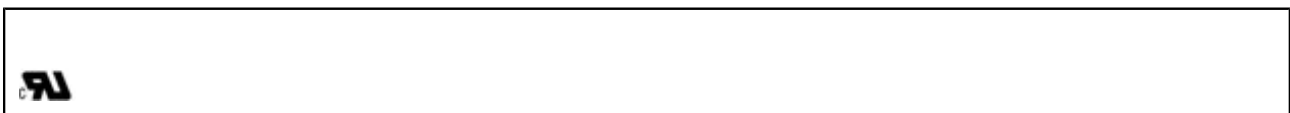
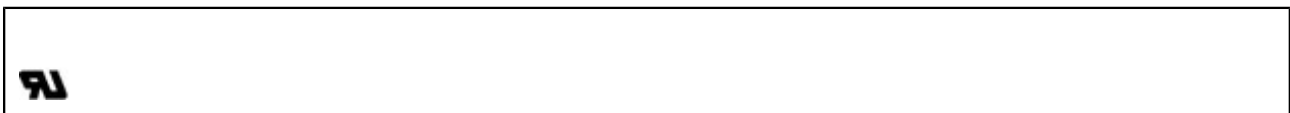
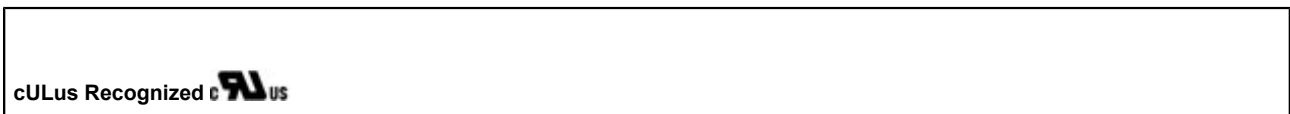
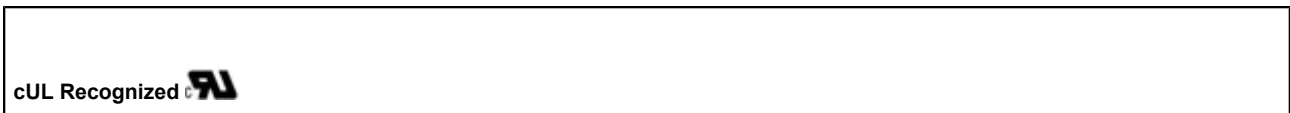
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### Approval details

# Distributed I/O device - FLM DIO 4/4 M12-2A - 2736369

approvals



accessories

## Terminal marking

ZBF 12:UNBEDRUCKT - 0809735



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## Data cable preassembled

SAC-5P-M12MSB/ 2,0-900 - 1507065



## Distributed I/O device - FLM DIO 4/4 M12-2A - 2736369

### accessories

SAC-5P-M12MSB/ 5,0-900 - 1507078



SAC-5P-M12MSB/10,0-900 - 1507081



SAC-5P-M12MSB/15,0-900 - 1507094



SAC-5P- 2,0-900/M12FSB - 1507117



SAC-5P- 5,0-900/M12FSB - 1507120



SAC-5P-10,0-900/M12FSB - 1507133



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### accessories

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SAC-5P-15,0-900/M12FSB - 1507146



SAC-5P-M12MSB/ 0,3-900/M12FSB - 1507162



SAC-5P-M12MSB/ 0,5-900/M12FSB - 1507175



SAC-5P-M12MSB/ 1,0-900/M12FSB - 1507188



SAC-5P-M12MSB/ 2,0-900/M12FSB - 1507191



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### accessories

SAC-5P-M12MSB/ 5,0-900/M12FSB - 1507201



SAC-5P-M12MSB/10,0-900/M12FSB - 1507214



SAC-5P-M12MSB/15,0-900/M12FSB - 1507227



### **Sensor/actuator cable**

SAC-5P-MS/ 2,0-186 SCO - 1518326



SAC-5P-MS/ 5,0-186 SCO - 1518339



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### accessories

SAC-5P-MS/10,0-186 SCO - 1518342



SAC-5P-MS/15,0-186 SCO - 1518355



SAC-5P- 2,0-186/FS SCO - 1518368



SAC-5P- 5,0-186/FS SCO - 1518371



SAC-5P-10,0-186/FS SCO - 1518384



SAC-5P-15,0-186/FS SCO - 1518397





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### accessories

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SAC-5P-MS/ 0,3-186/FS SCO - 1518407



SAC-5P-MS/ 0,5-186/FS SCO - 1518410



SAC-5P-MS/ 1,0-186/FS SCO - 1518423



SAC-5P-MS/ 2,0-186/FS SCO - 1518436



SAC-5P-MS/ 5,0-186/FS SCO - 1518449



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### accessories

SAC-5P-MS/10,0-186/FS SCO - 1518452



SAC-5P-MS/15,0-186/FS SCO - 1518465



SAC-5P-MS/ 0,13-186/FS SCO - 1518481



SAC-5P-MSB/0,13-PUR/FSB SCO SH - 1518478



### **Circular connector (cable-side)**

SACC-M12MSB-5CON-PG9 SH AU - 1507764



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### accessories

SACC-M12FSB-5CON-PG9 SH AU - 1507777



SACC-M12MSB-5SC SH - 1513570



SACC-M12FSB-5SC SH - 1513596



SACC-M12MRB-5SC SH - 1513583



SACC-M12FRB-5SC SH - 1513606



SACC-M12MS-5SC M - 1508187



# Distributed I/O device - FLM DIO 4/4 M12-2A - 2736369

## accessories

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SACC-M12FS-5SC M - 1508200



## accessories

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PROT-M12-M - 2736194

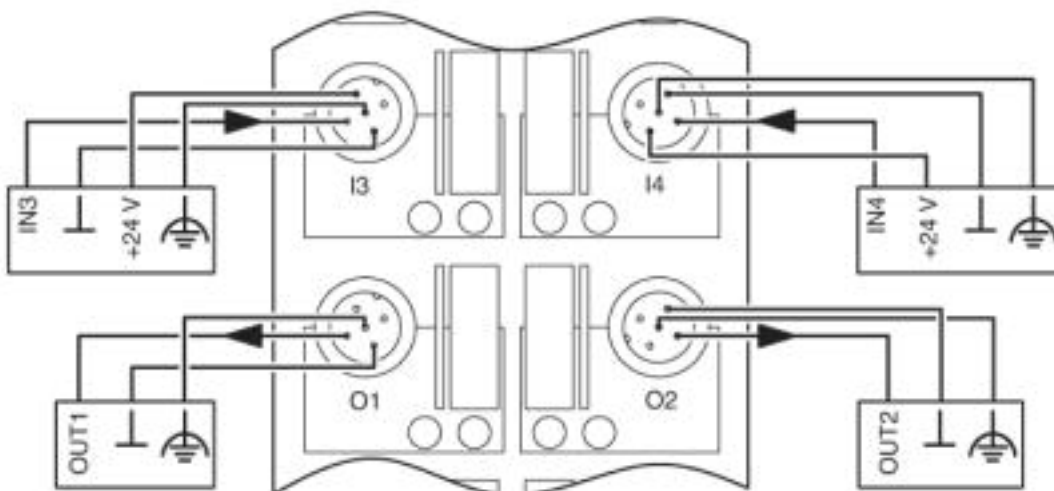


ZBF 12:SO/CMS - 0810038



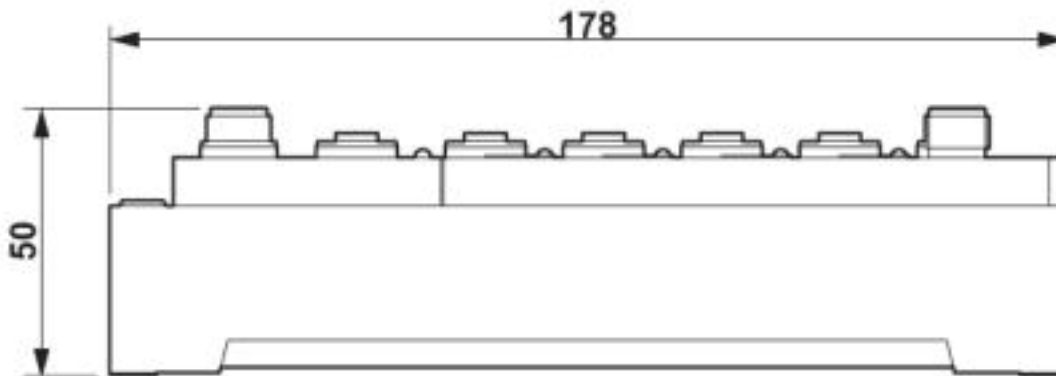
## Drawings

Connection diagram



## Distributed I/O device - FLM DIO 4/4 M12-2A - 2736369

Dimensioned drawing



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