

# FLS CO M12 DIO 4/4 M12-2A - Distributed I/O device



2736071

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The stand-alone device for CANopen® has 4 digital inputs and 4 digital outputs each with a load capacity of 2 A. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload.

## Product description

This device is used for digital signal acquisition and output.

## Your advantages

- Directly accessible address encoding switch
- Consistent connection via M12 connectors
- SPEEDCON fast locking system
- Diagnostic and status indicators
- Short-circuit and overload protection
- Flexible power supply concept

## Commercial data


Item number	2736071
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI4A3
GTIN	4017918904548
Weight per piece (including packing)	384 g
Weight per piece (excluding packing)	340 g
Customs tariff number	85176200
Country of origin	DE

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## Technical data

### Dimensions

Dimensional drawing	
Width	60 mm
Height	178 mm
Depth	49.3 mm
Drill hole spacing	168 mm

### Notes

#### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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### Interfaces

#### CANopen®

Connection method	2 M12 connectors, A-coded
Number of positions	5
Transmission speed	10, 20, 50, 125, 250, 500, 1000 kBit/s (Automatic baud rate detection)
Transmission physics	Copper cable with optional power supply in acc. with CAN standard
Address area assignment	1 ... 126, adjustable

### System properties

#### System limits

Number of local bus devices that can be connected	0
Number of devices with parameter channel	0

#### Programming data

Input address area	4 bit
Output address area	4 bit
Parameter channel (PCP)	0 bit

### Input data

#### Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	4
Connection method	M12 connector
Connection technology	2-, 3-, 4-conductor

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Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC ... 5 V DC
Input voltage range "1" signal	13 V DC ... 30 V DC
Nominal input voltage $U_{IN}$	24 V DC
Filter time	3 ms
Protective circuit	Reverse polarity protection

## Output data

Digital:

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

## Product properties

Product type	I/O component
Product family	Fieldline
Type	Block design
No. of channels	8

## Electrical properties

Potentials

Voltage supply $U_L$	24 V DC
Power supply at $U_L$	max. 4 A
Current consumption from $U_L$	typ. 60 mA max. 100 mA
Voltage supply $U_S$	24 V DC
Power supply at $U_S$	max. 4 A
Current consumption from $U_S$	typ. 10 mA (plus sensor current) max. 500 mA
Voltage supply $U_{A11}$	24 V DC
Power supply at $U_{A11}$	max. 4 A
Current consumption at $U_{A11}$	typ. 6 mA (plus actuator current) max. 4 A
Voltage supply $U_{A12}$	24 V DC
Power supply at $U_{A12}$	max. 4 A
Current consumption at $U_{A12}$	typ. 6 mA (plus actuator current) max. 4 A

Supply: Module electronics

Connection method	M12 connector, A-coded
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Designation	U <sub>L</sub>
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC (including ripple)

## Electrical isolation/isolation of the voltage ranges

Test voltage: 24 V supply (bus logics) / Digital inputs (sensor supply)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (bus logics) / Digital outputs (actuator supply)	500 V AC, 50 Hz, 1 min
Test voltage: FE / Digital inputs (sensor supply)	500 V AC, 50 Hz, 1 min
Test voltage: FE / Digital outputs (actuator supply)	500 V AC, 50 Hz, 1 min
Test voltage: Digital inputs (sensor supply) / Digital outputs (actuator supply)	500 V AC, 50 Hz, 1 min

## Connection data

Connection method	M12 connector
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP65/IP67
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

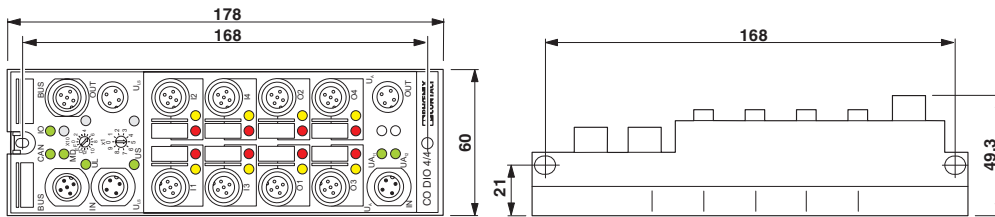
Mounting type	Panel mounting
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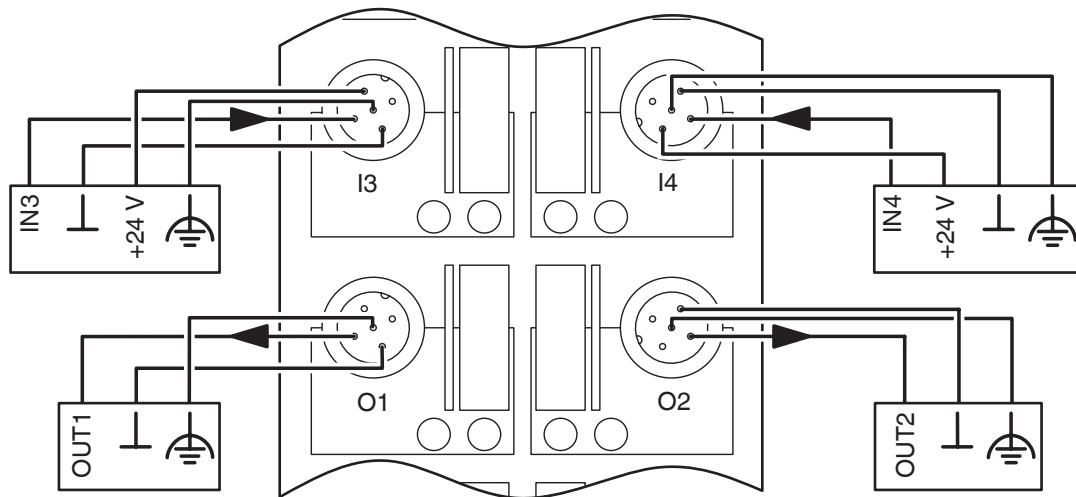
<https://www.phoenixcontact.com/us/products/2736071>

## Drawings

Dimensional drawing



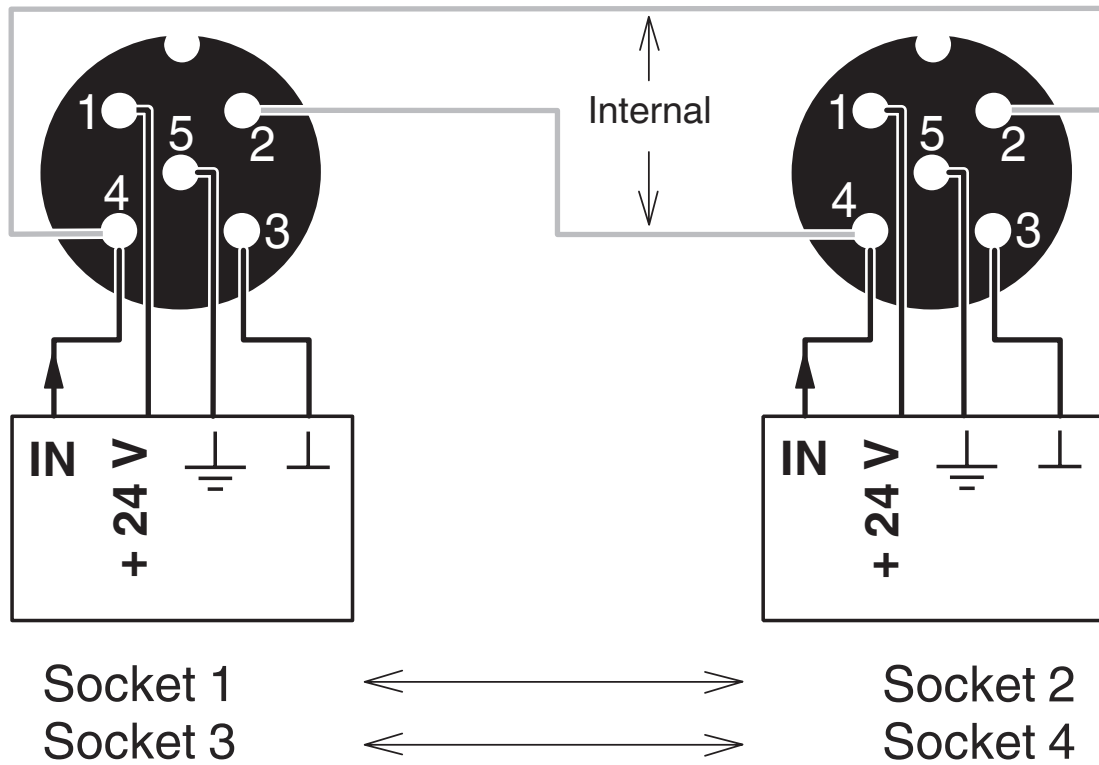
Connection diagram



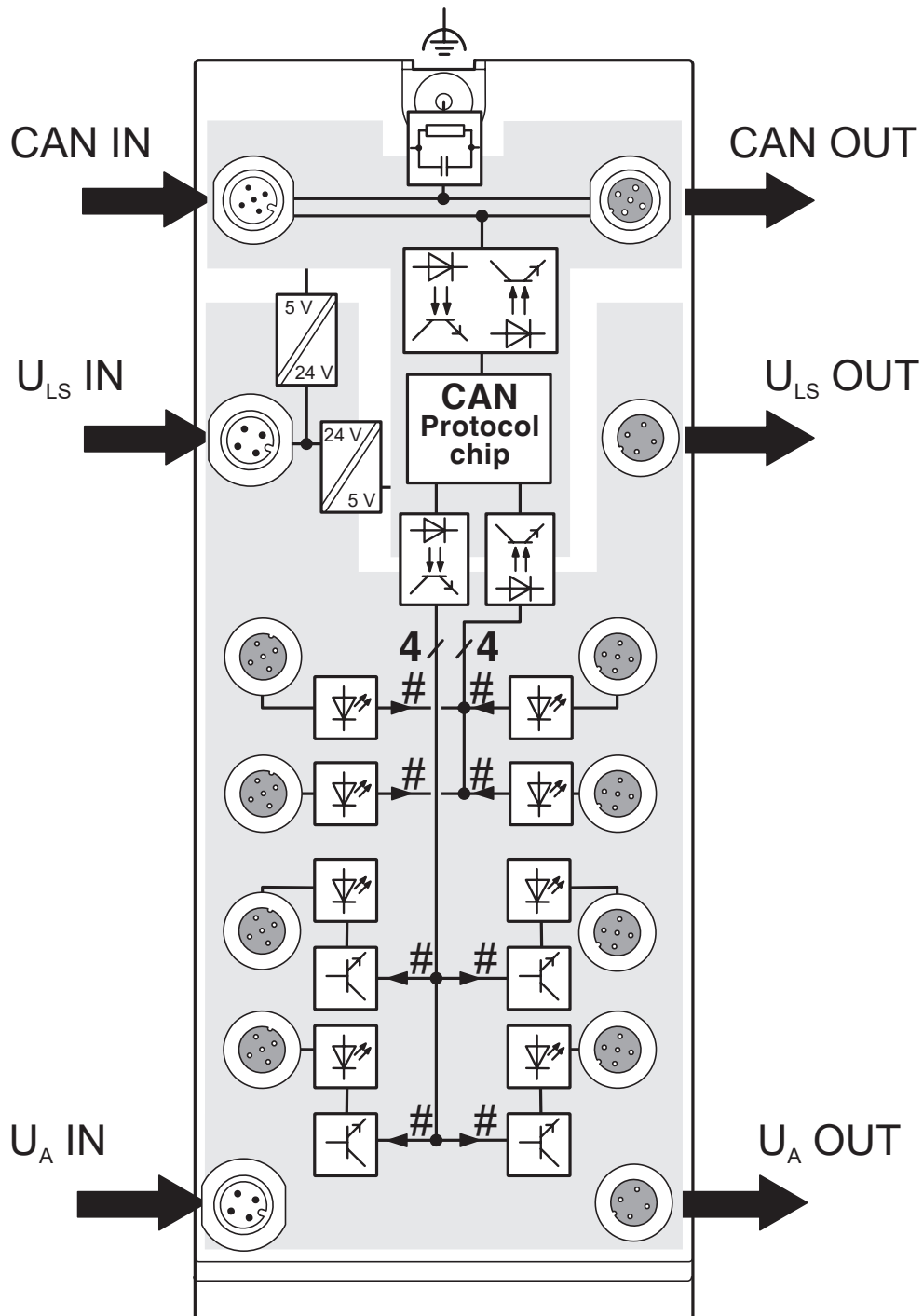
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Connection diagram



Block diagram



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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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