

## Distributed I/O device - FLS CO M12 DIO 4/4 M12-2A - 2736071

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The stand-alone device for CANopen<sup>®</sup> 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.

### Product Features

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



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	384.0 GRM
Custom tariff number	85176200
Country of origin	Germany

### Technical data

#### Note

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

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

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### Technical data

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %
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)
Degree of protection	IP65/IP67

#### General

Weight	340 g
Mounting type	Wall mounting
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	24 V supply (bus logics) / FE
	24 V supply (bus logics) / Digital inputs (sensor supply) 500 V AC 50 Hz 1 min
	24 V supply (bus logics) / Digital outputs (actuator supply) 500 V AC 50 Hz 1 min
	FE / Digital inputs (sensor supply) 500 V AC 50 Hz 1 min
	FE / Digital outputs (actuator supply) 500 V AC 50 Hz 1 min
	Digital inputs (sensor supply) / Digital outputs (actuator supply) 500 V AC 50 Hz 1 min

#### Interfaces

Fieldbus system	CANopen®
Designation	CANopen®
Connection method	2 M12 connectors, A-coded
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
Number of positions	5

#### Power supply for module electronics

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

#### Fieldline potentials

Voltage supply U <sub>L</sub>	24 V DC
Power supply at U <sub>L</sub>	max. 4 A
Current consumption from U <sub>L</sub>	typ. 60 mA

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#### Fieldline potentials

	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

#### Digital inputs

Input name	Digital inputs
Connection method	M12 connector
	2, 3, 4-wire
Number of inputs	4 (EN 61131-2 type 1)
Protective circuit	Protection against polarity reversal
Filter time	3 ms
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

#### Digital outputs

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

### Classifications

eCl@ss

eCl@ss 4.0	27250302
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### Classifications

#### eCl@ss

eCl@ss 4.1	27250302
eCl@ss 5.0	27250302
eCl@ss 5.1	27242604
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604

#### ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599

#### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

### Approvals

#### Approvals

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#### Approvals

UL Recognized / cUL Recognized / GOST / null / UL Recognized / null / null / null / null / null / null / null / null / cULus Recognized

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#### Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

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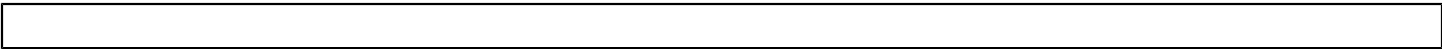
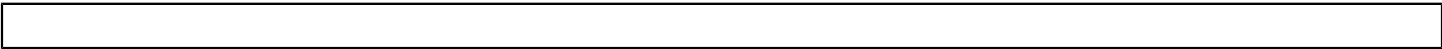
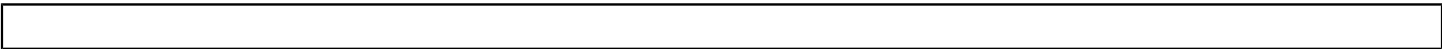
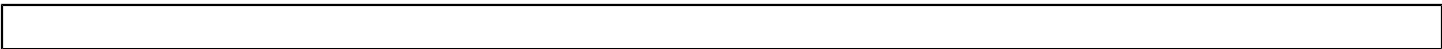
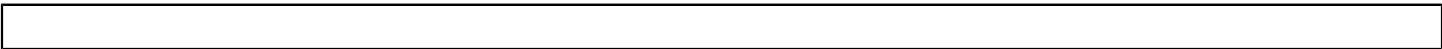
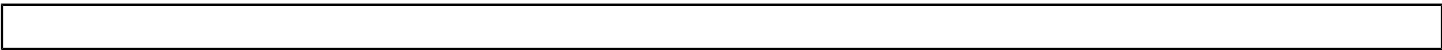
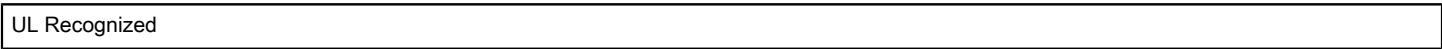
#### Approvals submitted

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#### Approval details

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## Approvals



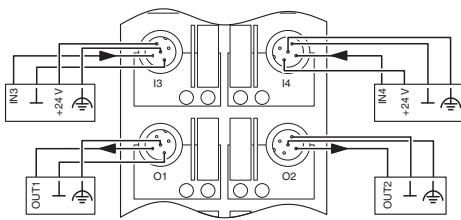
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## Approvals

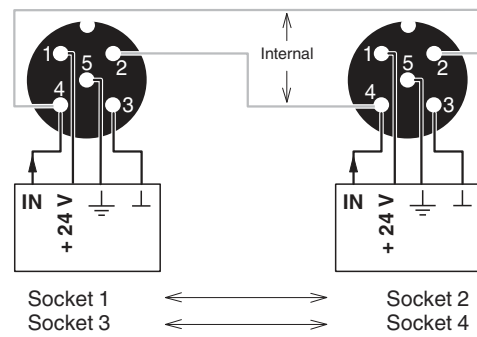


## Drawings

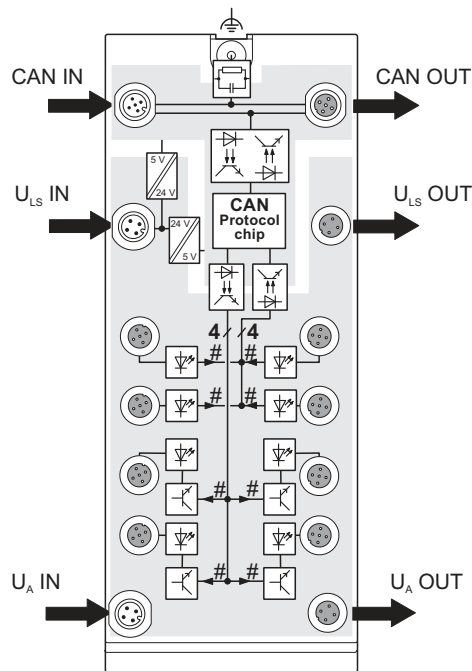
Connection diagram



Connection diagram



Block diagram



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Dimensioned drawing

