FLS CO M12 DI 8 M12 - Distributed I/O device

2736097

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The stand-alone device for CANopen® has 8 digital inputs. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload. The nominal current of the device is 600 mA.

Product description

This device is used for digital signal acquisition.

Your advantages

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

Commercial data

Item number	2736097
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI4A3
GTIN	4017918904562
Weight per piece (including packing)	345.9 g
Weight per piece (excluding packing)	310 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Dimensions

Width	60 mm
Height	161 mm
Depth	44.5 mm
Drill hole spacing	151 mm

Notes

Utilization restriction

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

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	8 bit
Output address area	0 bit
Parameter channel (PCP)	0 bit
Register length (bus)	8 bit

Input data

Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	8
Connection method	M12 connector
Connection technology	2-, 3-, 4-conductor
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

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. 65 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. 5 mA (plus sensor current)
	max. 700 mA

Supply: Module electronics

Connection method	M12 connector, A-coded
Designation	U_L
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 / I/O)	500 V AC, 50 Hz, 1 min
Test voltage: FE / Digital inputs (sensor supply)	500 V AC, 50 Hz, 1 min

Connection data

Connection method	M12 connector

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

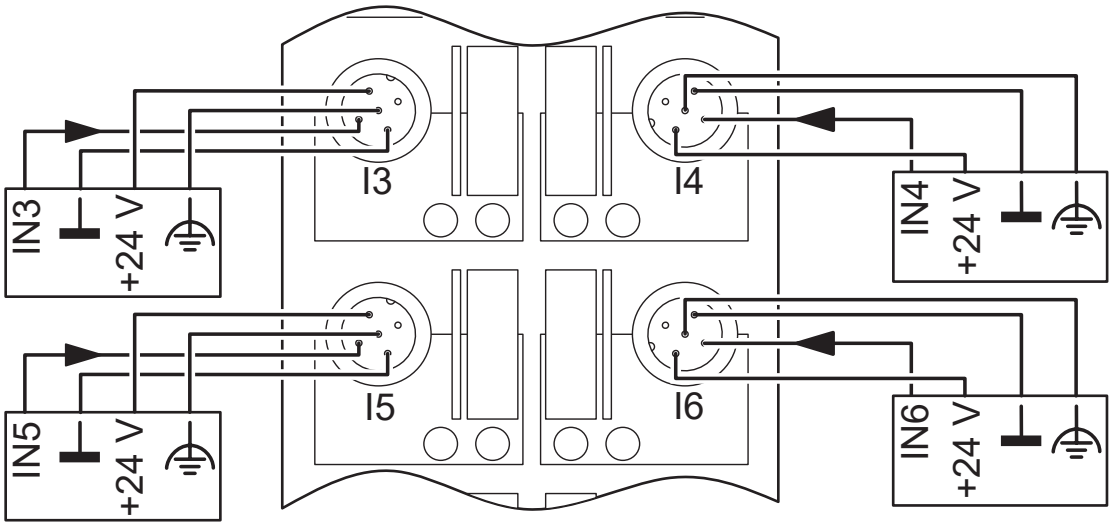
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

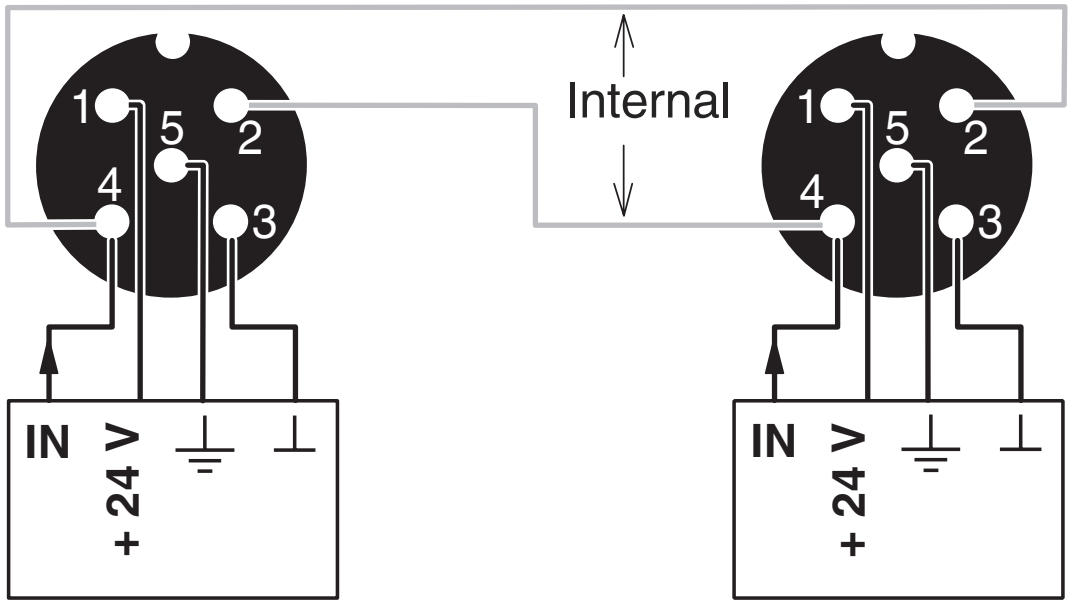
Mounting type	Panel mounting

Drawings

Connection diagram

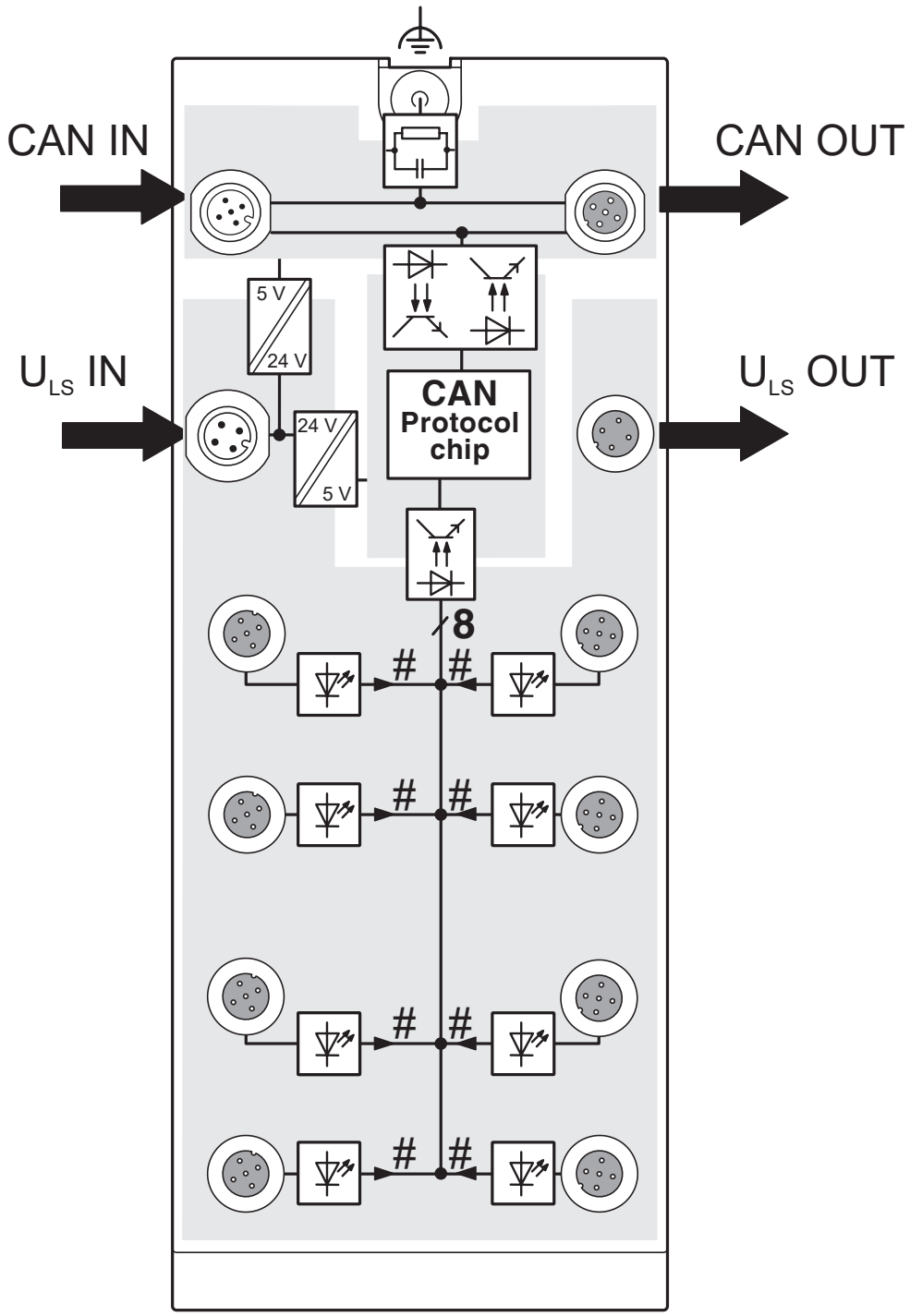


Connection diagram



female conn. 1 ⟷ female conn. 2
female conn. 3 ⟷ female conn. 4
female conn. 5 ⟷ female conn. 6
female conn. 7 ⟷ female conn. 8

Block diagram



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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