

Distributed I/O device - FLS CO M12 DIO 8/8 M12 - 2736482

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The stand-alone device for CANopen® has 8 digital inputs and 8 digital outputs each with a load capacity of 500 mA. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload.

Why buy this product

- 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 STK |
| GTIN |  4 017918 974275 |
| GTIN | 4017918974275 |

Technical data

Note

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

Dimensions

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

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |

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Ambient conditions

| | |
|--|---|
| 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

| | |
|---------------|---------------|
| Mounting type | Wall mounting |
| Net weight | 350 g |

Interfaces

| | |
|-------------------------|--|
| 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 _L |
| Supply voltage | 24 V DC |
| Supply voltage range | 18 V DC ... 30 V DC (including ripple) |

Fieldline 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 |

Digital inputs

| | |
|------------|----------------|
| Input name | Digital inputs |
|------------|----------------|

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Digital inputs

| | |
|--------------------------------|---------------------------------|
| Connection method | M12 connector, double occupancy |
| Connection technology | 2, 3, 4-wire |
| Number of inputs | 8 |
| Filter time | 3 ms |
| Input characteristic curve | IEC 61131-2 type 1 |
| 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, double occupancy |
| Connection technology | 2, 3-wire |
| Number of outputs | 8 |
| Type of protection | Short-circuit protection |
| Output voltage | 24 V DC |
| Maximum output current per channel | 500 mA |

Electrical isolation

| | |
|--------------|---|
| Test section | 24 V supply (bus logics) / FE |
| | 24 V supply (bus logics) / Digital inputs (sensor supply / I/O) 500 V AC 50 Hz 1 min. |
| | FE / Digital inputs (sensor supply) 500 V AC 50 Hz 1 min. |

Standards and Regulations

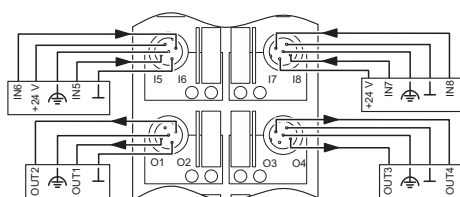
| | |
|----------------------------------|--------------------------------------|
| Connection in acc. with standard | CUL |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |

Environmental Product Compliance

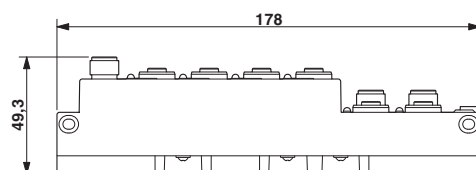
| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

Connection diagram



Dimensional drawing



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Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approval details

| | | | |
|---------------|--|---|---------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
|---------------|--|---|---------------|

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| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
|----------------|--|---|---------------|

| | | |
|-----|--|---------------|
| EAC | | EAC-Zulassung |
|-----|--|---------------|

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| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm |
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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>