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Distributed I/O device - FLS DN M12 DIO 8/8 M12 - 2736398

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The stand-alone device for DeviceNet™ 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

DeviceNet

Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 960070

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

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)

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Technical data

Ambient conditions

Degree of protection	IP65/IP67
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General

Net weight	340 g
Mounting type	Wall mounting

Interfaces

Fieldbus system	DeviceNet™
Designation	DeviceNet™
Connection method	2 M12 connectors, A-coded
Transmission speed	125 kBit/s, 250 kBit/s, 500 kBit/s (Automatic baud rate detection)
Transmission physics	Copper cable in acc. with DeviceNet™ specification
Address area assignment	0 ... 63, can be set
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	12 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
Connection method	M12 connector, double occupancy
	2, 3, 4-wire

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Technical data

Digital inputs

Number of inputs	8
Protective circuit	Protection against polarity reversal
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
	2, 3-wire
Number of outputs	8
Protective circuit	Short-circuit protection
Output voltage	24 V DC
Maximum output current per channel	500 mA

Standards and Regulations

Test section	To I/O 500 V AC 50 Hz 1 min.
Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 Load 30g, half sine wave, positive and negative per direction
	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g in each space direction
Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Classifications

eCl@ss

eCl@ss 4.0	27250302
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
eCl@ss 9.0	27242604

ETIM

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

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Classifications

UNSPSC

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

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / DeviceNet / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approvals submitted

Approval details

UL Recognized

cUL Recognized

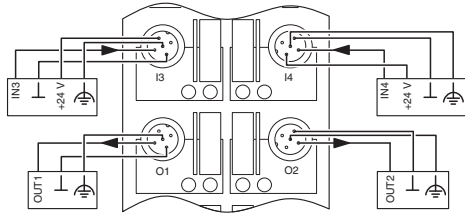
DeviceNet

cULus Recognized

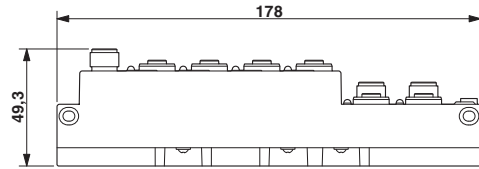
Drawings

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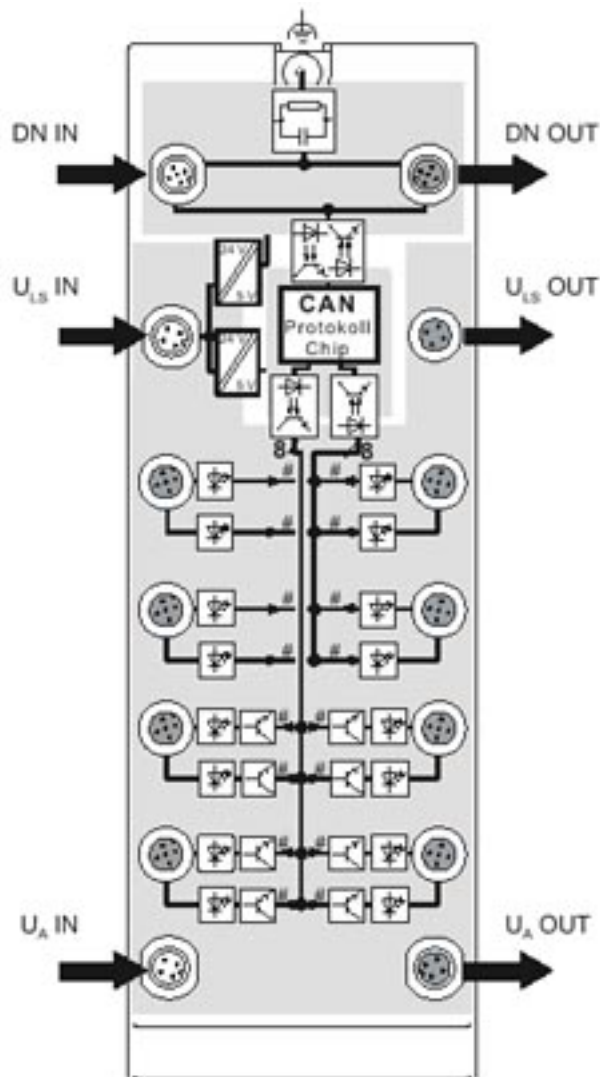
Connection diagram



Dimensional drawing



Block diagram



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Product	Code	Reference	Product link
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