

FLM DI 8 M8 - Distributed I/O device



2736929

<https://www.phoenixcontact.com/us/products/2736929>

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The space-saving local bus device is particularly suitable for use in close proximity to the process. Functions: 8 digital inputs with 3 ms filter time, channel-specific diagnostics, short-circuit and overload protection, 600 mA nominal current, M8 connection method.

Product description

The device is designed for use in the Fieldline Modular M8 local bus, which is opened by a Fieldline or Inline bus coupler. It is used to acquire digital signals.

Commercial data

Item number	2736929
Packing unit	1 pc
Sales key	DR03
Product key	DRI431
GTIN	4046356076241
Weight per piece (including packing)	159.6 g
Weight per piece (excluding packing)	158.04 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Product properties

Type	modular
No. of channels	8

System properties

Programming data

Length code (hex)	81
ID code (dec.)	178
Process data channel	8 bit
Input address area	8 bit
Output address area	0 bit
Parameter channel (PCP)	0 Byte
Register length (bus)	8 bit

Fieldbus data telegram

Required parameter data	1 Byte
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Electrical properties

Potentials

Voltage supply U_L	24 V DC
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Supply: Module electronics

Connection method	M8 connector
Designation	U_L
Number of positions	4
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC (including ripple)
Supply current	3 A

Electrical isolation/isolation of the voltage ranges

Test voltage: To I/O	500 V AC
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Input data

Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	8
Connection method	M8 connector
Connection technology	2-, 3-conductor
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC ... 5 V DC

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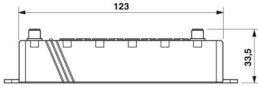
Input voltage range "1" signal	13 V DC ... 30 V DC
Nominal input voltage U_{IN}	24 V DC
Total sensor current	max. 600 A
Filter time	3 ms
Protective circuit	Reverse polarity protection

Interfaces

Fieldline local bus

Connection method	2 M8 male connector
Designation connection point	Copper cable
Number of positions	4

Dimensions

Dimensional drawing	
Width	29.8 mm
Height	143 mm
Depth	26.5 mm
Drill hole spacing	133 mm
Note on dimensions	Length details incl. fixing clips

Material specifications

Color	green
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Mechanical properties

Technical data

Drill hole spacing	133 mm
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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 (operation)	5 % ... 95 %
Permissible humidity (storage/transport)	10 % ... 95 %

Standards and regulations

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Protection class

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

Mounting

Mounting type

Panel mounting

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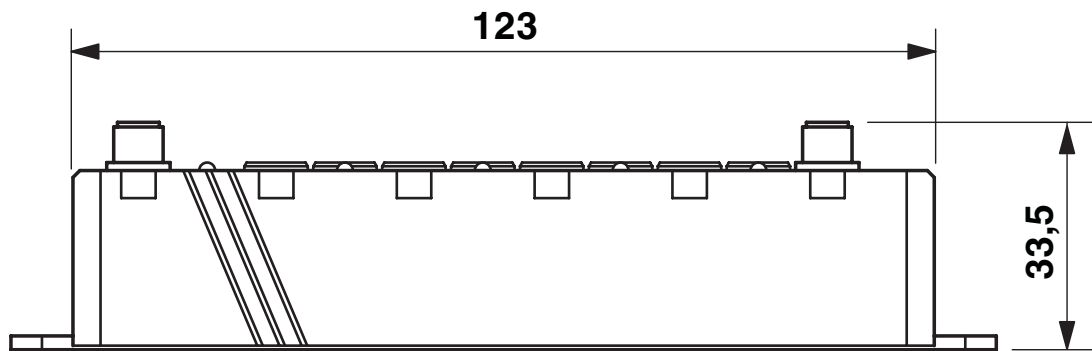


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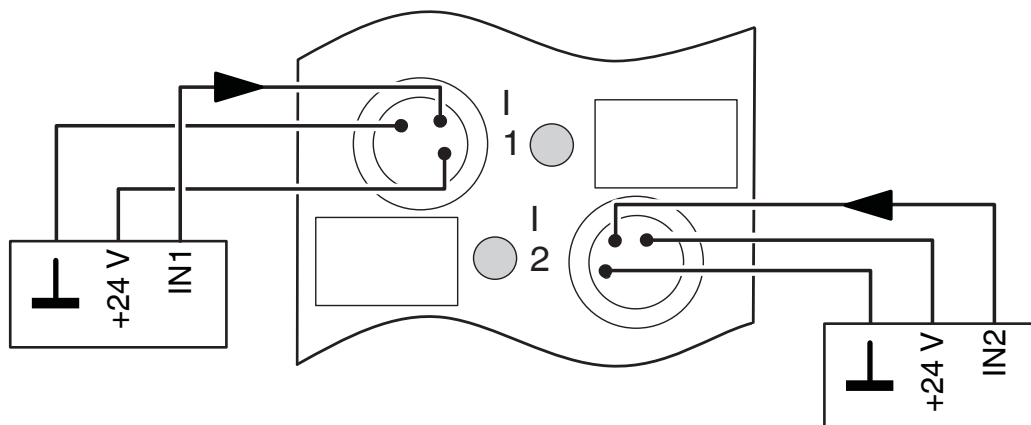
Drawings

Dimensional drawing



Side view (dimensions in mm)

Connection diagram



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Environmental product compliance

EU REACH SVHC

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