

FLM DI 8 M8 - Distributed I/O device

2773348

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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.

Your advantages

- Can also be connected to an Inline station
- Optimized for 30 mm mounting profile
- Diagnostic and status indicators
- Short-circuit and overload protection
- Consistent connection via M8 connectors

Commercial data

Item number	2773348
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRI431
GTIN	4046356181693
Weight per piece (including packing)	159.7 g
Weight per piece (excluding packing)	137 g
Customs tariff number	85389099
Country of origin	DE

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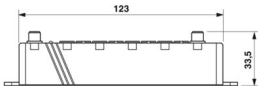


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Technical data

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	black
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Interfaces

Fieldline local bus	
Connection method	M8 connector
Designation connection point	Copper cable
Number of positions	4
Transmission speed	500 kbps

System properties

Module	
ID code (dec.)	178
ID code (hex)	B2
Length code (hex)	81
Length code (dec)	129
Process data channel	8 bit
Input address area	8 bit
Output address area	0 bit
Register length	8 bit
Required parameter data	1 Byte
Required configuration data	4 Byte

Input data

Digital:	
Input name	Digital inputs

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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
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

Product properties

Product type	I/O component
Product family	Fieldline
Type	modular
No. of channels	8

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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Connection data

Connection method	M8 connector
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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 %

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Permissible humidity (storage/transport)	10 % ... 95 %
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Standards and regulations

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

Mounting type	Panel mounting
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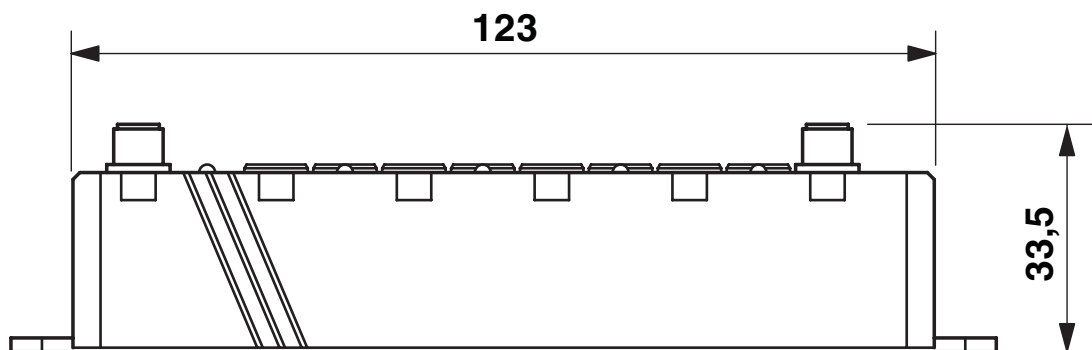


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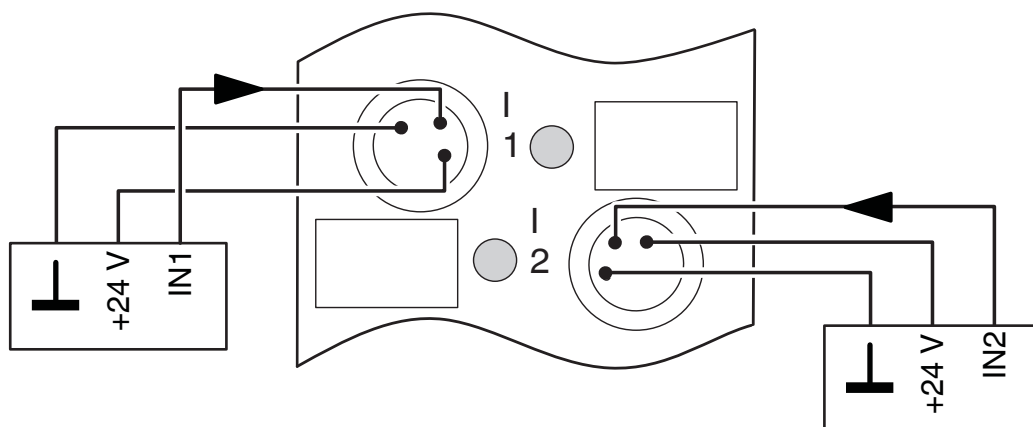
Drawings

Dimensional drawing



Side view (dimensions in mm)

Connection diagram



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Classifications

ETIM

ETIM 8.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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