

# FLM DI 8 M8 - Distributed I/O device



2773348

<https://www.phoenixcontact.com/us/products/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
Sales key	DR03
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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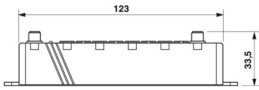


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## Technical data

### 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

#### Programming data (LocalbusSlave)

Length code (hex)	81
ID code (dec.)	178
Length code (dec)	129
Process data channel	8 bit
Input address area	8 bit
Output address area	0 bit
Parameter channel (PCP)	0 bit
Register length (bus)	8 bit

#### Fieldbus data telegram

Required parameter data	1 Byte
Required configuration data	4 Byte

### Input data

Digital:

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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
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

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Permissible humidity (operation)	5 % ... 95 %
Permissible humidity (storage/transport)	10 % ... 95 %

## 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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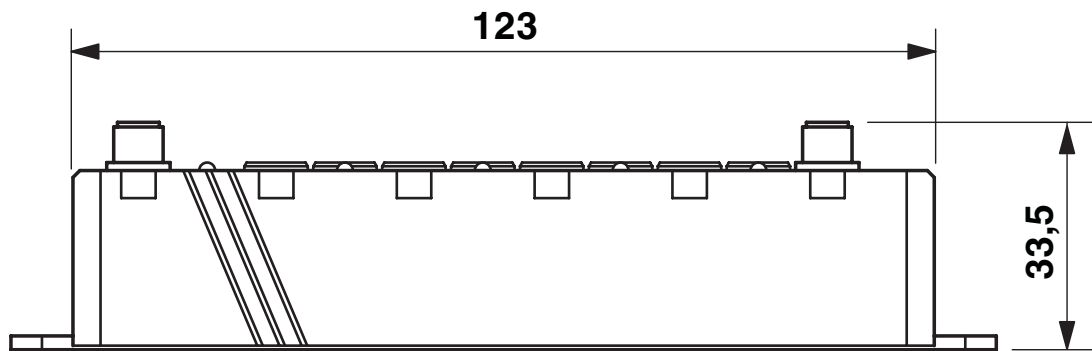


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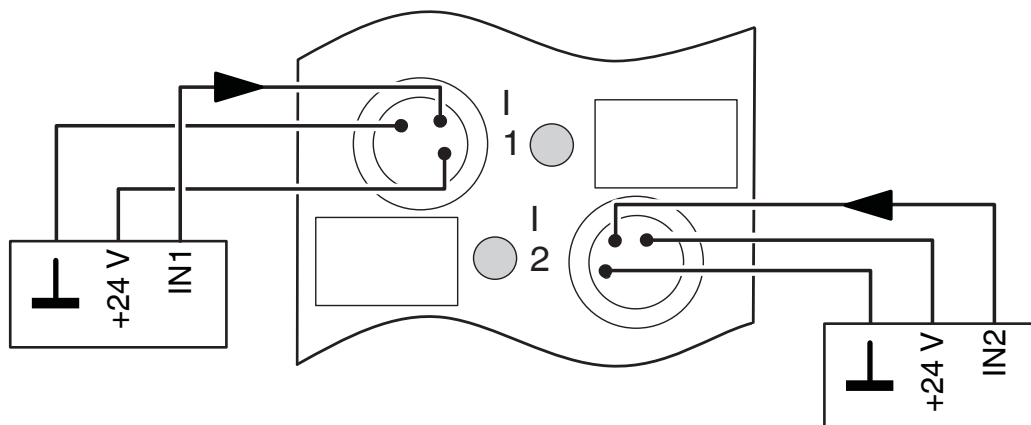
## Drawings

Dimensional drawing



Side view (dimensions in mm)

Connection diagram



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## Classifications

### 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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