

FLM DI 8 M12 - Distributed I/O device



2736288

<https://www.phoenixcontact.com/us/products/2736288>

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The local bus device has digital inputs. Functions: 8 digital inputs, 3 ms filter time, 500 kbaud/2 Mbaud selection, channel-specific diagnostics, short-circuit and overload protection, 600 mA nominal current, M12 fast connection technology.

Your advantages

- Flexible power supply concept
- SPEEDCON fast locking system
- Short-circuit and overload protection
- Diagnostic and status indicators
- Consistent connection via M12 connectors

Commercial data

Item number	2736288
Packing unit	1 pc
Sales key	DR03
Product key	DRI431
Catalog page	Page 190 (C-6-2019)
GTIN	4017918951054
Weight per piece (including packing)	343.4 g
Weight per piece (excluding packing)	290 g
Customs tariff number	85176200
Country of origin	DE

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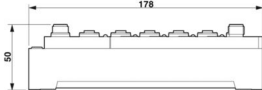


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Technical data

Dimensions

Dimensional drawing	
Width	70 mm
Height	178.5 mm
Depth	50 mm
Drill hole spacing	168 mm

Interfaces

Fieldline local bus

Connection method	M12 connector, B-coded
Designation connection point	Copper cable
Number of positions	5
Transmission speed	500 kbps / 2 Mbps (can be switched)

System properties

Module

ID code (dec.)	190
ID code (hex)	BE
Length code (hex)	81
Process data channel	1 Byte
Input address area	1 Byte
Output address area	0 Byte
Register length	1 Byte
Required parameter data	1 Byte
Required configuration data	4 Byte

Input data

Digital

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	8
Connection method	M12 connector
Connection technology	2-, 3-, 4-conductor
Input voltage	24 V DC

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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 mA
Filter time	3 ms
Delay at signal change from 0 to 1	3.1 ms
Delay at signal change from 1 to 0	4.1 ms
Protective circuit	Reverse polarity protection

Output data

Digital

Output name	M12 connector
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Product properties

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

Electrical properties

Potentials

Voltage supply U_L	24 V DC
Power supply at U_L	max. 4 A
Current consumption from U_L	max. 50 mA (At 2 Mbaud)
	typ. 40 mA (At 2 Mbaud)
	max. 50 mA (At 500 kBaud)
	typ. 35 mA (At 500 kBaud)
Voltage supply U_S	24 V DC
Power supply at U_S	max. 4 A
Current consumption from U_S	typ. 5 mA (plus power supply for sensors)
	max. 600 mA

Supply: Module electronics

Connection method	M12 connector
Designation	U_L
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC (including ripple)

Electrical isolation/isolation of the voltage ranges

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

Connection method	M12 connector
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Environmental and real-life conditions

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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 (storage/transport)	95 %

Standards and regulations

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

Mounting type	Wall mounting
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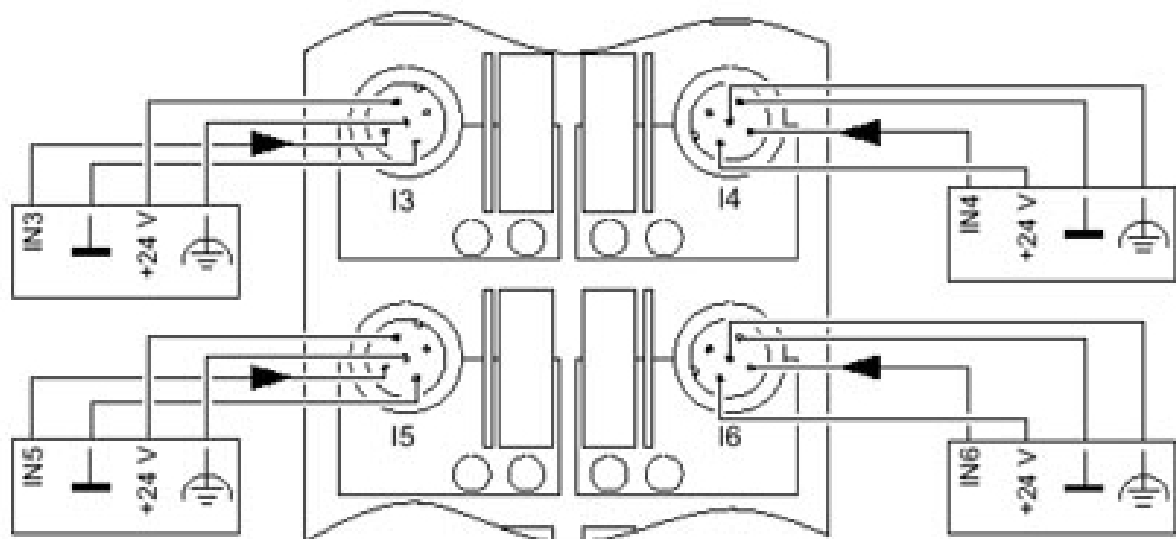
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Drawings

Connection diagram



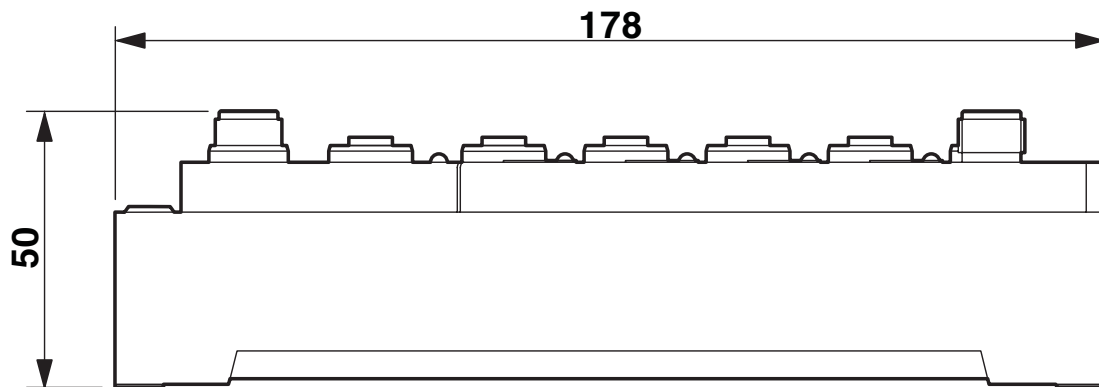
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Dimensional drawing



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Approvals

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cUL Recognized
Approval ID: FILE E 140324



UL Recognized
Approval ID: FILE E 140324



EAC
Approval ID: RU*DE*08.B.00529/19



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Classifications

ECLASS

ECLASS-11.0	27242604
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ETIM

ETIM 8.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

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

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