

FLM DI 16 M12 - Distributed I/O device



2736835

<https://www.phoenixcontact.com/us/products/2736835>

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The local bus device has digital inputs. Functions: 16 digital inputs, 3 ms filter time, 500 kbaud/2 Mbaud selection, channel-specific diagnostics, short-circuit and overload protection, 1.2 A nominal current, M12 fast connection technology.

Your advantages

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

Commercial data

Item number	2736835
Packing unit	1 pc
Sales key	DR03
Product key	DRI431
Catalog page	Page 190 (C-6-2019)
GTIN	4046356135542
Weight per piece (including packing)	346 g
Weight per piece (excluding packing)	310 g
Customs tariff number	85176200
Country of origin	DE

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Technical data

Dimensions

Width	70 mm
Height	178 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

System properties

Module

ID code (dec.)	190
ID code (hex)	BE
Length code (hex)	81
Process data channel	8 bit
Input address area	8 bit
Output address area	0 Byte
Register length	8 bit
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	16
Connection method	M12 connector
Connection technology	2-, 3-, 4-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 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

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Protective circuit

Reverse polarity protection

Output data

Digital

Output name

M12 connector

Product properties

Type

modular

Product type

I/O component

Product family

Fieldline

No. of channels

8

Electrical properties

Maximum power dissipation for nominal condition

31.2 W

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. 1.2 A

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

Connection data

Connection method

M12 connector

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)

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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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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

cULus Recognized

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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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