

# FLM DIO 8/8 M12 - Distributed I/O device



2736848

<https://www.phoenixcontact.com/us/products/2736848>

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

## Your advantages

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

## Commercial data

Item number	2736848
Packing unit	1 pc
Sales key	DR03
Product key	DRI434
GTIN	4046356135603
Weight per piece (including packing)	369.6 g
Weight per piece (excluding packing)	330 g
Customs tariff number	85389099
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

#### Programming data (LocalbusSlave)

Length code (hex)	41
ID code (dec.)	191
Process data channel	4 bit
Input address area	4 bit
Output address area	4 bit
Parameter channel (PCP)	0 Byte
Register length (bus)	4 bit

#### Fieldbus data telegram

Required parameter data	3 Byte
Required configuration data	5 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
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
Filter time	3 ms
Protective circuit	Reverse polarity protection

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## Output data

Digital:

Output name	Digital outputs
Connection method	M12 connector
Connection technology	2-, 3-conductor
Number of outputs	8
Protective circuit	Short-circuit protection
Output voltage	24 V DC
Maximum output current per channel	500 mA

## 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
Power supply at $U_L$	max. 4 A
Current consumption from $U_L$	max. 55 mA (At 2 Mbaud)
	typ. 50 mA (At 2 Mbaud)
	max. 50 mA (At 500 kBaud)
	typ. 40 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
Voltage supply $U_{A11}$	24 V DC
Power supply at $U_{A11}$	max. 4 A
Current consumption at $U_{A11}$	typ. 3 mA
	max. 2 A
Voltage supply $U_{A12}$	24 V DC
Power supply at $U_{A12}$	max. 4 A
Current consumption at $U_{A12}$	typ. 3 mA
	max. 4 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)

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## 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

### 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	Panel mounting
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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-E
	No hazardous substances above the limits

### EU REACH SVHC

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