

FLM DIO 16/16 M12/8-DIAG - Distributed I/O device



2736738

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The local bus device has digital inputs and outputs. Functions: 16 digital inputs, 3 ms filter time, 16 digital outputs of 500 mA each, 500 kbaud/2 Mbaud selection, diagnostics strategy, short-circuit/overload protection, 8-pos. 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

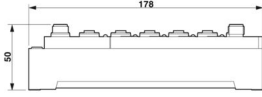
Item number	2736738
Packing unit	1 pc
Sales key	DR03
Product key	DRI434
GTIN	4046356042642
Weight per piece (including packing)	458.4 g
Weight per piece (excluding packing)	400 g
Customs tariff number	85389099
Country of origin	DE

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Technical data

Dimensions

Dimensional drawing	
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)	01
ID code (dec.)	223
Process data channel	16 bit
Input address area	2 Byte
Output address area	2 Byte
Parameter channel (PCP)	16 bit
Register length (bus)	32 bit

Fieldbus data telegram

Required parameter data	18 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	16
Connection method	M12 connector, 8-pos.
Connection technology	2-, 3-conductor

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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. 500 mA (Maximum current per socket)
Filter time	3 ms
Delay at signal change from 0 to 1	3 ms
Delay at signal change from 1 to 0	3 ms
Protective circuit	Short-circuit protection, overload protection of the sensor supply; Reverse polarity protection

Output data

Digital:

Output name	Digital outputs
Connection method	M12 connector, 8-pos.
Connection technology	2-conductor
Number of outputs	16
Protective circuit	Short-circuit protection, overload protection of the sensor supply; Polarity protection diode
Maximum output current per channel	500 mA

Product properties

Product type	I/O component
Product family	Fieldline
Type	modular
No. of channels	16

Electrical properties

Potentials

Voltage supply U_L	24 V DC
Power supply at U_L	max. 4 A
Current consumption from U_L	max. 100 mA (At 2 Mbaud)
	typ. 80 mA (At 2 Mbaud)
	max. 75 mA (At 500 kBaud)
	typ. 60 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. 20 mA (plus power supply for sensors)
	max. 1.2 A
	max. 1.2 A
Voltage supply U_{A11}	24 V DC
Power supply at U_{A11}	max. 4 A
Current consumption at U_{A11}	typ. 15 mA
	max. 4 A

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Voltage supply U_{A12}	24 V DC
Power supply at U_{A12}	max. 4 A
Current consumption at U_{A12}	typ. 15 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)

Electrical isolation/isolation of the voltage ranges

Test voltage: To I/O	500 V DC, 1 min
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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

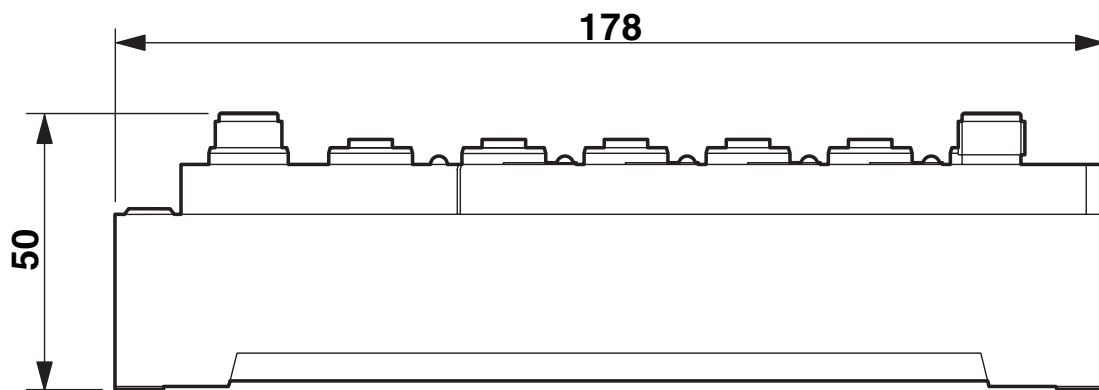
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

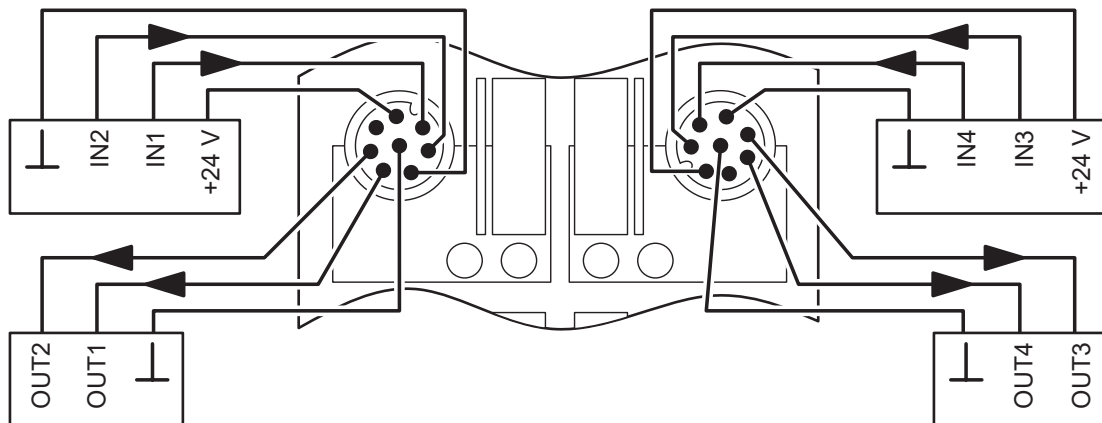
Mounting type	Panel mounting
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Drawings

Dimensional drawing



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-E
	No hazardous substances above the limits

EU REACH SVHC

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