

Distributed I/O device - FLM DI 16 M12 - 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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 135542
GTIN	4046356135542
Weight per Piece (excluding packing)	360.000 g
Custom tariff number	85176200
Country of origin	China

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	70 mm
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Technical data

Dimensions

Height	178 mm
Depth	50 mm
Drill hole spacing	168 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %
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)
Degree of protection	IP65/IP67

General

Mounting type	Wall mounting
Net weight	310 g

Interfaces

Designation	Fieldline local bus
Connection method	M12 connector, B-coded
Designation connection point	Copper cable
Transmission speed	500 kbps / 2 Mbps
Number of positions	5

Power supply for 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)

Fieldline 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

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Technical data

Digital inputs

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Connection method	M12 connector
Connection technology	2-, 3-, 4-conductor
Number of inputs	16
Protective circuit	Reverse polarity protection
Nominal input voltage U_{IN}	24 V DC
Filter time	3 ms
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
Delay at signal change from 0 to 1	3.1 ms
Delay at signal change from 1 to 0	4.1 ms

Electrical isolation

Test section	To I/O 500 V AC
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Standards and Regulations

Connection in acc. with standard	CUL
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

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

Classifications

eCl@ss

eCl@ss 10.0.1	27242604
eCl@ss 11.0	27242604
eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27250300
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242604
eCl@ss 9.0	27242604

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Classifications

ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 6.0	EC001599
ETIM 7.0	EC001599

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

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UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
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Approvals

