

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.

Product Features

- 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
Weight per Piece (excluding packing)	360.0 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Dimensions

Width	70 mm
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

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Technical data

General

Net weight	310 g
Mounting type	Wall mounting

Interfaces

Designation	Fieldline local bus
Connection method	M12 connector, B-coded
Designation connection point	Copper cable
Transmission speed	500 kBit/s / 2 MBit/s
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

Digital inputs

Input name	Digital inputs
Connection method	M12 connector
	2, 3, 4-wire
Number of inputs	16
Protective circuit	Protection against polarity reversal
Filter time	3 ms
Input characteristic curve	IEC 61131-2 type 1
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

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Technical data

Digital inputs

Delay at signal change from 0 to 1	3.1 ms
Delay at signal change from 1 to 0	4.1 ms

Standards and Regulations

Test section	To I/O 500 V AC
Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Classifications

eCl@ss

eCl@ss 4.0	27250302
eCl@ss 4.1	27250302
eCl@ss 5.0	27250302
eCl@ss 5.1	27242604
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

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Approvals

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UL Recognized / cUL Recognized / EAC / cULus Recognized


Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 

EAC

cULus Recognized 
