Distributed I/O device - FLS IB M12 DI 16 M12 - 2736314

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The stand-alone device for INTERBUS has 16 digital inputs. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload. The nominal current of the device is 1.2 A.

Product Description

This device is used for digital signal acquisition.

Product Features

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

Key commercial data

package_quantity	1
GTIN	4017918943240

Technical data

Note:

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

Dimensions

Width	60 mm
Height	161 mm
Depth	44.5 mm
Drill hole spacing	151 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)

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Technical data

Ambient conditions

Degree of protection	IP65/67

General

Weight	310 g
Mounting type	Wall mounting
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	To I/O 500 V AC

Interfaces

Fieldbus system	INTERBUS
Name	INTERBUS remote bus
Connection method	2x M12 connectors, B-coded
Designation connection point	Copper cable
Transmission speed	500 kBit/s
Number of positions	5

Power supply for module electronics

Connection method	M12 connector, (A-coded)
Name	U_L
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC IEC 61131-2 (including ripple)

Fieldline potentials

Voltage supply U_L	24 V DC
Power supply at U_L	max. 4 A
Current consumption from U_L	typ. 65 mA
Current consumption from U_L	max. 100 mA
Voltage supply U_S	24 V DC
Power supply at U_S	max. 4 A
Current consumption from U_S	typ. 8 mA (plus sensor current)
Current consumption from U_S	max. 1.2 A

Digital inputs

Input name	Digital inputs
Connection method	M12 connector, double occupancy
Connection method	2, 3, 4-wire
Number of inputs	16
Protective circuit	Protection against polarity reversal
Filter time	1 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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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

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

UL Recognized / cUL Recognized / cULus Recognized / UL Recognized / cUL Recognized / INTERBUS CLUB / cULus Recognized /

Approval details

UL Recognized

cUL Recognized

cULus Recognized

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approvals

INTERBUS CLUB

accessories

Protective cap

PROT-M12 - 1680539

Terminal marking

ZBF 12:UNBEDRUCKT - 0809735

Data cable preassembled

SAC-5P-M12MSB/ 2,0-900 - 1507065

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accessories

SAC-5P-M12MSB/ 5,0-900 - 1507078

SAC-5P-M12MSB/10,0-900 - 1507081

SAC-5P-M12MSB/15,0-900 - 1507094

SAC-5P- 2,0-900/M12FSB - 1507117

SAC-5P- 5,0-900/M12FSB - 1507120

SAC-5P-10,0-900/M12FSB - 1507133

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accessories

SAC-5P-15,0-900/M12FSB - 1507146

SAC-5P-M12MSB/ 0,3-900/M12FSB - 1507162

SAC-5P-M12MSB/ 0,5-900/M12FSB - 1507175

SAC-5P-M12MSB/ 1,0-900/M12FSB - 1507188

SAC-5P-M12MSB/ 2,0-900/M12FSB - 1507191

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accessories

SAC-5P-M12MSB/ 5,0-900/M12FSB - 1507201

SAC-5P-M12MSB/10,0-900/M12FSB - 1507214

SAC-5P-M12MSB/15,0-900/M12FSB - 1507227

Sensor/actuator cable

SAC-4P-M12MS/ 2,0-186 - 1509445

SAC-4P-M12MS/ 5,0-186 - 1509458

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accessories

SAC-4P-M12MS/10,0-186 - 1509461

SAC-4P-M12MS/15,0-186 - 1509474

SAC-4P- 2,0-186/M12FS - 1509487

SAC-4P- 5,0-186/M12FS - 1509490

SAC-4P-10,0-186/M12FS - 1509500

SAC-4P-15,0-186/M12FS - 1509513

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accessories

SAC-4P-M12MS/ 0,3-186/M12FS - 1509526

SAC-4P-M12MS/ 0,5-186/M12FS - 1509539

SAC-4P-M12MS/ 1,0-186/M12FS - 1509542

SAC-4P-M12MS/ 2,0-186/M12FS - 1509555

SAC-4P-M12MS/ 5,0-186/M12FS - 1509568

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accessories

SAC-4P-M12MS/10,0-186/M12FS - 1509571

SAC-4P-M12MS/15,0-186/M12FS - 1509584

Distributor with cable

SAC-4P-M12Y/2X0,3-PUR/M12FS VP - 1510722

Circular connector (cable-side)

SACC-M12MSB-5CON-PG9 SH AU - 1507764

SACC-M12FSB-5CON-PG9 SH AU - 1507777

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accessories

PROT-M12-M - 2736194

ZBF 12:SO/CMS - 0810038

Drawings

Connection diagram

Block diagram

Dimensioned drawing

Dimensions of the module

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