

Distributed I/O device - FLM AI 4 SF M12 - 2736453

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The local bus device has 4 analog inputs. Functions: 3 current and 4 voltage measuring ranges, 500 kbaud/2 Mbaud selection, PCP or process data communication, channel-specific diagnostics, short-circuit/overload protection, M12 fast connection technology.

Product Features

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

Key commercial data

package_quantity	1
GTIN	4017918974244

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
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 (operation)	95 %
Permissible humidity (storage/transport)	95 %
Air pressure (operation)	80 Pa ... 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	IP65/67

General

Weight	280 g
Mounting type	Wall mounting

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Technical data

General

Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	To I/O 500 V AC
Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 Load 30 g, half sine wave, positive and negative per direction
Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g in each space direction

Interfaces

Name	Fieldline local bus
Connection method	M12 connector, B-coded
Transmission speed	500 kBit/s / 2MBit/s

Power supply for module electronics

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 (including ripple)
Power supply at U_L	max. 4 A
Current consumption from U_L	max. 100 mA (At 2 Mbaud)
Current consumption from U_L	typ. 70 mA
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)
Current consumption from U_s	max. 400 mA

Analog inputs

Number of inputs	max. 4 (differential inputs, voltage or current)
Connection method	M12 connector
Connection method	2, 4-conductor
Input name	Analog inputs
Type of protection	Protection against polarity reversal
Current input signal	0 mA ... 20 mA
Current input signal	4 mA ... 20 mA
Current input signal	-20 mA ... 20 mA
Voltage input signal	0 V ... 5 V
Voltage input signal	-5 V ... 5 V
Voltage input signal	0 V ... 10 V
Voltage input signal	-10 V ... 10 V

classifications

eCl@ss

eCl@ss 4.0	27250303
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classifications

eCl@ss

eCl@ss 4.1	27250303
eCl@ss 5.0	27250303
eCl@ss 5.1	27250303
eCl@ss 6.0	27242601
eCl@ss 7.0	27242601
eCl@ss 8.0	27242601

ETIM

ETIM 2.0	EC001431
ETIM 3.0	EC001596
ETIM 4.0	EC001596
ETIM 5.0	EC001596

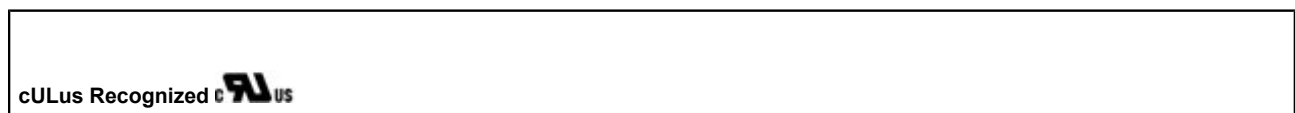
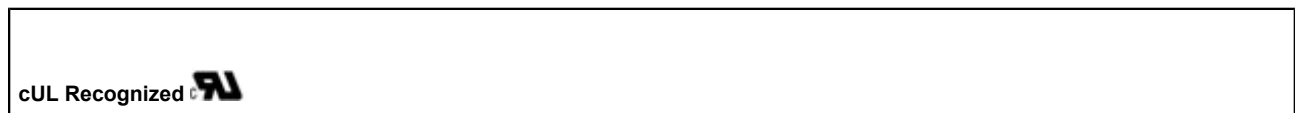
UNSPSC

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 / cULus Recognized /

Approval details



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approvals



accessories

Terminal marking

ZBF 12:UNBEDRUCKT - 0809735



Data cable preassembled

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



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



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



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accessories

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



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



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



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accessories

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



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



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



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



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



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accessories

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



Sensor/actuator cable

SAC-5P-MS/ 2,0-186 SCO - 1518326



SAC-5P-MS/ 5,0-186 SCO - 1518339



SAC-5P-MS/10,0-186 SCO - 1518342



SAC-5P-MS/15,0-186 SCO - 1518355



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accessories

SAC-5P- 2,0-186/FS SCO - 1518368



SAC-5P- 5,0-186/FS SCO - 1518371



SAC-5P-10,0-186/FS SCO - 1518384



SAC-5P-15,0-186/FS SCO - 1518397



SAC-5P-MS/ 0,3-186/FS SCO - 1518407



SAC-5P-MS/ 0,5-186/FS SCO - 1518410



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accessories

SAC-5P-MS/ 1,0-186/FS SCO - 1518423



SAC-5P-MS/ 2,0-186/FS SCO - 1518436



SAC-5P-MS/ 5,0-186/FS SCO - 1518449



SAC-5P-MS/10,0-186/FS SCO - 1518452



SAC-5P-MS/15,0-186/FS SCO - 1518465



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accessories

SAC-5P-MS/ 0,13-186/FS SCO - 1518481



SAC-5P-MSB/0,13-PUR/FSB SCO SH - 1518478



Circular connector (cable-side)

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



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



SACC-M12MSB-5SC SH - 1513570



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accessories

SACC-M12FSB-5SC SH - 1513596



SACC-M12MRB-5SC SH - 1513583



SACC-M12FRB-5SC SH - 1513606



SACC-M12MS-5SC M - 1508187



SACC-M12FS-5SC M - 1508200



Device parameterization

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accessories

AX+ BASIC - 2985068



AX DTM LIB - 2988065



accessories

PROT-M12-M - 2736194



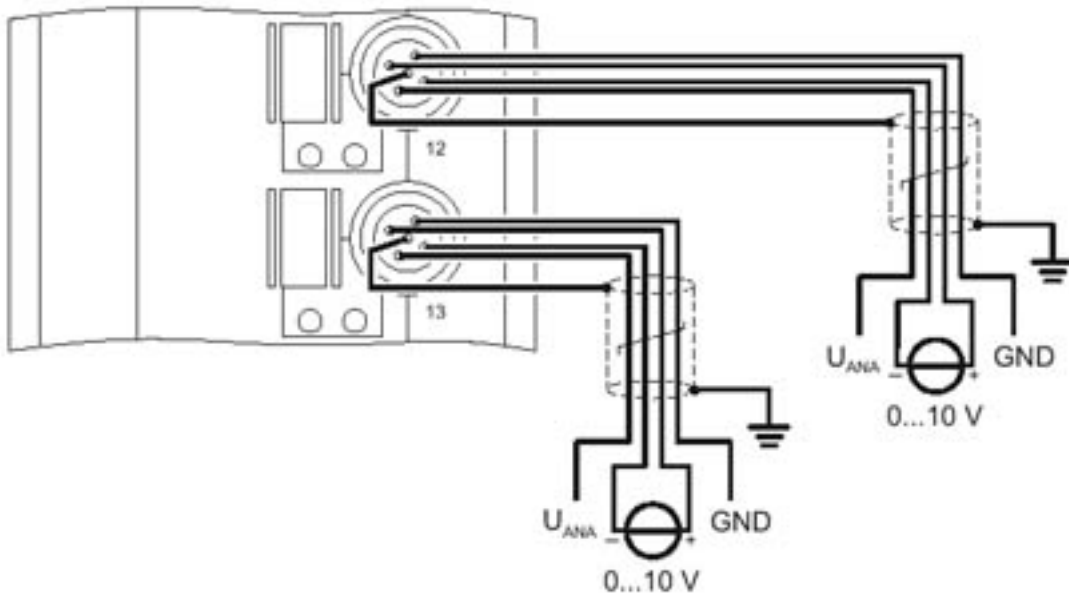
ZBF 12:SO/CMS - 0810038



Drawings

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Connection diagram



Dimensioned drawing

