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Distributed I/O device - FLS PB M12 DI 8 M12 - 2736123

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The stand-alone device for PROFIBUS has 8 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 600 mA.

Product Description

This device is used for digital signal acquisition.

Your advantages

- ☑ Flexible power supply concept
- ☑ Diagnostic and status indicators
- ☑ SPEEDCON fast locking system
- ☑ Short-circuit and overload protection
- ☑ Consistent connection via M12 connectors
- ☑ Directly accessible address encoding switch

RoHS

PROFI BUS®

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 899585
GTIN	4017918899585
Weight per Piece (excluding packing)	338.200 g
Custom tariff number	85389099
Country of origin	Germany

Technical data

Note

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

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Technical data

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)
Degree of protection	IP65/IP67

General

Mounting type	Wall mounting
Net weight	290.74 g

Interfaces

Designation	PROFIBUS DP
Connection method	2x M12 connectors, B-coded
Designation connection point	Copper cable
Transmission speed	9.6 kbps ... 12 Mbps (Automatic baud rate detection)
Transmission physics	PROFIBUS-DP-compliant copper cable
Address area assignment	1 ... 99, can be set
Number of positions	5

Power supply for module electronics

Connection method	M12 connector, (A-coded)
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	typ. 35 mA
	max. 100 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 sensor current)

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Technical data

Fieldline potentials

	max. 700 mA

Digital inputs

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Connection method	M12 connector
Connection technology	2, 3, 4-wire
Number of inputs	8
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

Electrical isolation

Test section	24 V supply (bus logics) / Bus connection
	24 V supply (bus logics) / FE 500 V AC 50 Hz 1 min.
	24 V supply (bus logics) / Digital inputs (sensor supply) 500 V AC 50 Hz 1 min.
	Bus connection / FE 500 V AC 50 Hz 1 min.
	Bus connection / Digital inputs (sensor supply) 500 V AC 50 Hz 1 min.
	FE / Digital inputs (sensor supply) 500 V AC 50 Hz 1 min.

Standards and Regulations

Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 Load 30g, half sine wave, positive and negative per direction
	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g in each space direction
Connection in acc. with standard	CUL
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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Classifications

eCl@ss

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 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
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

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / PROFIBUS / EAC / EAC / cULus Recognized

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Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approval details

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Approvals

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

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

PROFIBUS	Z00793

EAC		EAC-Zulassung

EAC		RU *-DE.A*30.B.01735

cULus Recognized	

Accessories

Accessories

Circular connector (cable-side)

Bus system connector - SACC-M12MSB-5CON-PG9 SH AU - 1507764

Bus system connector, PROFIBUS, INTERBUS, 5-position, shielded, Plug straight M12, B-coded, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6.5 mm ... 8.5 mm

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Accessories

Bus system connector - SACC-M12FSB-5CON-PG9 SH AU - 1507777

Bus system connector, PROFIBUS, INTERBUS, 5-position, shielded, Socket straight M12, B-coded, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6.5 mm ... 8.5 mm

Data cable preassembled

Bus system cable - SAC-2P-M12MSB/ 2,0-910 - 1507243

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on free cable end, cable length: 2 m

Bus system cable - SAC-2P-M12MSB/ 5,0-910 - 1507256

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on free cable end, cable length: 5 m

Bus system cable - SAC-2P-M12MSB/10,0-910 - 1507269

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on free cable end, cable length: 10 m

Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on free cable end, cable length: 15 m

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Accessories

Bus system cable - SAC-2P- 2,0-910/M12FSB - 1507298

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket straight M12, B-coded, cable length: 2 m

Bus system cable - SAC-2P- 5,0-910/M12FSB - 1507308

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket straight M12, B-coded, cable length: 5 m

Bus system cable - SAC-2P-10,0-910/M12FSB - 1507311

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket straight M12, B-coded, cable length: 10 m

Bus system cable - SAC-2P-15,0-910/M12FSB - 1507324

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket straight M12, B-coded, cable length: 15 m

Bus system cable - SAC-2P-M12MSB/ 0,3-910/M12FSB - 1507340

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, cable length: 0.3 m

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Accessories

Bus system cable - SAC-2P-M12MSB/ 0,5-910/M12FSB - 1507353

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, cable length: 0.5 m

Bus system cable - SAC-2P-M12MSB/ 1,0-910/M12FSB - 1507366

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, cable length: 1 m

Bus system cable - SAC-2P-M12MSB/ 2,0-910/M12FSB - 1507379

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, cable length: 2 m

Bus system cable - SAC-2P-M12MSB/ 5,0-910/M12FSB - 1507382

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, cable length: 5 m

Bus system cable - SAC-2P-M12MSB/10,0-910/M12FSB - 1507395

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, cable length: 10 m

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Accessories

Bus system cable - SAC-2P-M12MSB/15,0-910/M12FSB - 1507405

Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, cable length: 15 m

Distributor with cable

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

Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded and Socket straight M12, A-coded, cable length: 0.3 m, Parallel distributor

Plug for cable screw gland

Screw plug - PROT-M12 - 1680539

An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

Sensor/actuator cable

Sensor/actuator cable - SAC-4P-M12MS/ 2,0-186 - 1509445

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on free cable end, cable length: 2 m

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Accessories

Sensor/actuator cable - SAC-4P-M12MS/ 5,0-186 - 1509458

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on free cable end, cable length: 5 m

Sensor/actuator cable - SAC-4P-M12MS/10,0-186 - 1509461

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on free cable end, cable length: 10 m

Sensor/actuator cable - SAC-4P-M12MS/15,0-186 - 1509474

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on free cable end, cable length: 15 m

Sensor/actuator cable - SAC-4P- 2,0-186/M12FS - 1509487

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, cable length: 2 m

Sensor/actuator cable - SAC-4P- 5,0-186/M12FS - 1509490

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, cable length: 5 m

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Accessories

Sensor/actuator cable - SAC-4P-10,0-186/M12FS - 1509500

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, cable length: 10 m

Sensor/actuator cable - SAC-4P-15,0-186/M12FS - 1509513

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, cable length: 15 m

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

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, cable length: 0.3 m

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

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, cable length: 0.5 m

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

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, cable length: 1 m

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Accessories

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

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, cable length: 2 m

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

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, cable length: 5 m

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

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, cable length: 10 m

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

Sensor/actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, cable length: 15 m

T-distributor

Bus system T-connector - SAC-M12T/2XM12 PB DP - 1507780

Bus system T-plug, PROFIBUS, M12 B-coded male plug to M12 B-coded male plug and M12 B-coded female plug, shielded

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Accessories

Terminal marking

Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 12 mm, lettering field size: 5.15 x 12.15 mm, Number of individual labels: 5

Terminal resistor

Termination resistor - SAC-5P-M12MS PB TR - 1507803

Terminating resistor PROFIBUS M12

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