

## Distributed I/O device - FLS PB M12 DO 8 M12-2A - 2736110

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The stand-alone device for PROFIBUS has 8 digital outputs each with a load capacity of 2 A. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload.

### 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



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 899578
GTIN	4017918899578

### Technical data

#### Note

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

Width	60 mm
Height	178 mm
Depth	49.3 mm
Drill hole spacing	168 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

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## Technical data

### Ambient conditions

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	392.2 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 $U_L$	4 A
Current consumption from $U_L$	typ. 40 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. 3 mA max. 700 mA
Voltage supply $U_{A11}$	24 V DC
Power supply at $U_{A11}$	max. 4 A
Current consumption at $U_{A11}$	typ. 12 mA (plus actuator current) max. 4 A
Voltage supply $U_{A12}$	24 V DC
Power supply at $U_{A12}$	max. 4 A
Current consumption at $U_{A12}$	typ. 12 mA (plus actuator current) max. 4 A
Voltage supply $U_{A21}$	24 V DC

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### Technical data

#### Fieldline potentials

Power supply at U <sub>A21</sub>	max. 4 A
Current consumption at U <sub>A21</sub>	typ. 12 mA (plus actuator current)
	max. 4 A
Voltage supply U <sub>A22</sub>	24 V DC
Power supply at U <sub>A22</sub>	max. 4 A
Current consumption at U <sub>A22</sub>	typ. 12 mA (plus actuator current)
	max. 4 A

#### Digital outputs

Output name	Digital outputs
Connection method	M12 connector
Connection technology	2, 3-wire
Number of outputs	8
Protective circuit	Short-circuit protection
Output voltage	24 V DC
Maximum output current per channel	2 A

#### 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 outputs (actuator supply) 500 V AC 50 Hz 1 min.
	Bus connection / FE 500 V AC 50 Hz 1 min.
	Bus connection / Digital outputs (actuator supply) 500 V AC 50 Hz 1 min.
	FE / Digital outputs (actuator supply) 500 V AC 50 Hz 1 min.

#### Standards and Regulations

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

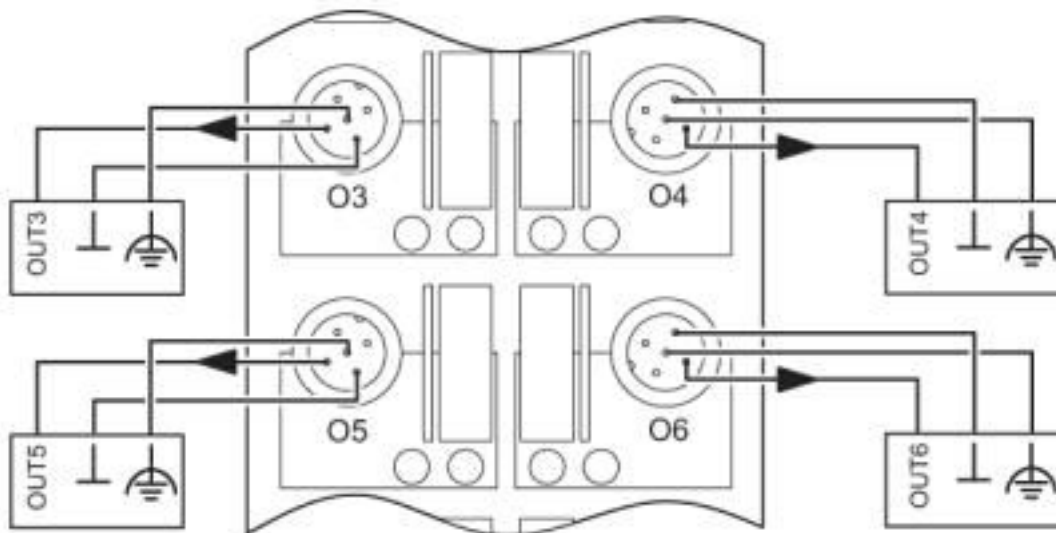
#### Environmental Product Compliance

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

### Drawings

# Distributed I/O device - FLS PB M12 DO 8 M12-2A - 2736110

Connection diagram



Dimensional drawing



## Classifications

eCl@ss

eCl@ss 10.0.1	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 8.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 2.0	EC001430
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# Distributed I/O device - FLS PB M12 DO 8 M12-2A - 2736110

## Classifications

### ETIM

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
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

## Approvals

### Approvals

#### Approvals

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

#### Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
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PROFIBUS	Z00795
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## Distributed I/O device - FLS PB M12 DO 8 M12-2A - 2736110

### Approvals

EAC		EAC-Zulassung
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EAC		RU *- DE.A*30.B.01735
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cULus Recognized		
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### Accessories

#### Accessories

##### Circular connector (cable-side)

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



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

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



Data connector, PROFIBUS, INTERBUS, 5-position, shielded, Socket straight M12, Coding: B, 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, coding: B, on free cable end, cable length: 2 m

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### Accessories

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, coding: B, on free cable end, cable length: 5 m

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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, coding: B, on free cable end, cable length: 10 m

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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, coding: B, on free cable end, cable length: 15 m

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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, coding: B, cable length: 2 m

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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, coding: B, cable length: 5 m

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## Distributed I/O device - FLS PB M12 DO 8 M12-2A - 2736110

### Accessories

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, coding: B, cable length: 10 m

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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, coding: B, cable length: 15 m

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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, coding: B, on Socket straight M12, coding: B, cable length: 0.3 m

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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, coding: B, on Socket straight M12, coding: B, cable length: 0.5 m

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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, coding: B, on Socket straight M12, coding: B, cable length: 1 m

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### Accessories

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, coding: B, on Socket straight M12, coding: B, cable length: 2 m

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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, coding: B, on Socket straight M12, coding: B, cable length: 5 m

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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, coding: B, on Socket straight M12, coding: B, cable length: 10 m

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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, coding: B, on Socket straight M12, coding: B, cable length: 15 m

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### 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, coding: A, on Socket straight M12, coding: A and Socket straight M12, coding: A, cable length: 0.3 m, Parallel distributor

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### Plug for cable screw gland

## Distributed I/O device - FLS PB M12 DO 8 M12-2A - 2736110

### Accessories

Screw plug - PROT-M12 - 1680539



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

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### 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, coding: A, on free cable end, cable length: 2 m

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



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

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



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

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



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

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## Distributed I/O device - FLS PB M12 DO 8 M12-2A - 2736110

### Accessories

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, coding: A, cable length: 2 m

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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, coding: A, cable length: 5 m

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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, coding: A, cable length: 10 m

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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, coding: A, cable length: 15 m

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



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

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## Distributed I/O device - FLS PB M12 DO 8 M12-2A - 2736110

### Accessories

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



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

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



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

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



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

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



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

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



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

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## Distributed I/O device - FLS PB M12 DO 8 M12-2A - 2736110

### Accessories

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



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

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### 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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### 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

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### Terminal resistor

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



Terminating resistor PROFIBUS M12

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