PHŒNIX CONTACT

Distributed I/O device - FLS IB M12 DIO 4/4 M12-2A - 2736026

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The stand-alone device for INTERBUS has 4 digital inputs and 4 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.

Product Description

This device is used for digital signal acquisition and output.

Your advantages

☑ Flexible power supply concept

☑ Short-circuit and overload protection

☑ SPEEDCON fast locking system

☑ Diagnostic and status indicators

☑ Consistent connection via M12 connectors

RoHS **INTERBUS**

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918899646

Technical data

Dimensions

Caption	Dimensions of the module
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
Permissible humidity (storage/transport)	95 %

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Technical data

Ambient conditions

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	340 g

Interfaces

Designation	INTERBUS
Connection method	2x M12 connectors, B-coded
Designation connection point	Copper cable
Transmission speed	500 kbps
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. 60 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. 10 mA (plus sensor current)
	max. 500 mA
Voltage supply U_{A11}	24 V DC
Power supply at U_{A11}	max. 4 A
Current consumption at U_{A11}	typ. 6 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. 6 mA (plus actuator current)
	max. 4 A

Digital inputs

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Connection method	M12 connector

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Technical data

Digital inputs

Connection technology	2, 3, 4-wire
Number of inputs	4
Protective circuit	Reverse polarity protection
Nominal input voltage U_{IN}	24 V DC
Nominal input current at U_{IN}	5 mA
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

Digital outputs

Output name	Digital outputs
Connection method	M12 connector
Connection technology	2, 3-wire
Number of outputs	4
Protective circuit	Short-circuit protection
Output voltage	24 V DC
Nominal load, inductive	48 VA (1,2 H, 12 Ω)
Nominal load, lamp	48 W
Nominal load, ohmic	48 W
Output current when switched off	max. 20 µA
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed

Electrical isolation

Test section	24 V supply (bus logics) / FE 500 V AC 50 Hz 1 s
	24 V supply (bus logics) / Digital inputs (sensor supply / I/O) 500 V AC 50 Hz 1 s
	24 V supply (bus logics) / Digital outputs (actuator supply) 500 V AC 50 Hz 1 s
	24 V supply (bus logics) / Incoming remote bus 500 V AC 50 Hz 1 s
	24 V supply (bus logics) / Outgoing remote bus 500 V AC 50 Hz 1 s
	Digital inputs (sensor supply / I/O) / FE 500 V AC 50 Hz 1 s
	Digital inputs (sensor supply) / Digital outputs (actuator supply) 500 V AC 50 Hz 1 s
	Digital inputs (sensor supply / I/O) / Incoming remote bus 500 V AC 50 Hz 1 s
	Digital inputs (sensor supply / I/O) / Outgoing remote bus 500 V AC 50 Hz 1 s
	Digital outputs (actuator supply) / FE 500 V AC 50 Hz 1 s
	Digital outputs (actuator supply) / Incoming remote bus 500 V AC 50 Hz 1 s
	Incoming remote bus / FE 500 V AC 50 Hz 1 s
	Incoming remote bus / Outgoing remote bus 500 V AC 50 Hz 1 s

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Technical data

Electrical isolation

	Outgoing remote bus / FE 500 V AC 50 Hz 1 s
	Outgoing remote bus / FE 500 V AC 50 Hz 1 s

Standards and Regulations

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

Environmental Product Compliance

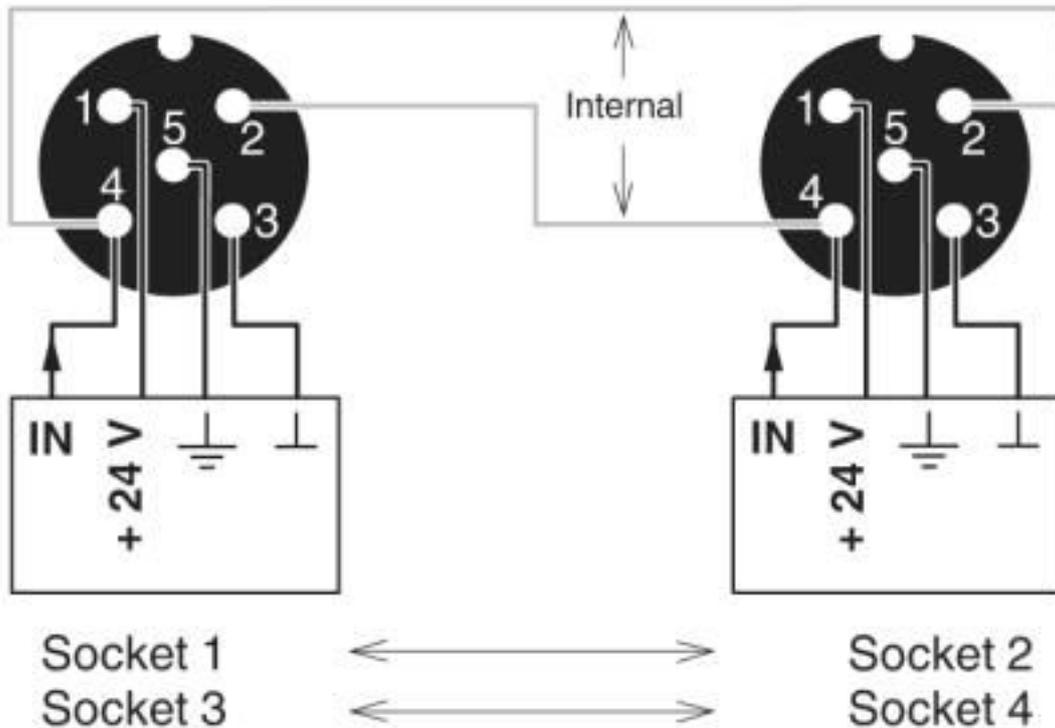| REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Connection diagram
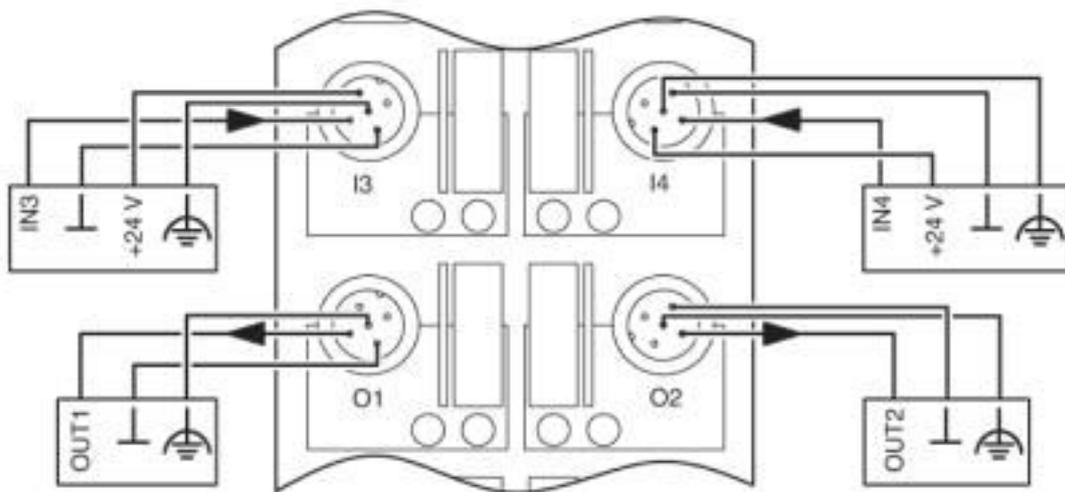
Distributed I/O device - FLS IB M12 DIO 4/4 M12-2A - 2736026

Connection diagram

Classifications

eCl@ss

eCl@ss 10.0.1	27242604
eCl@ss 11.0	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
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599
ETIM 6.0	EC001599
ETIM 7.0	EC001599

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Classifications

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

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

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on free cable end, cable length: 2 m

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Accessories

Bus system cable - SAC-5P-M12MSB/ 5,0-900 - 1507078

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on free cable end, cable length: 5 m

Bus system cable - SAC-5P-M12MSB/10,0-900 - 1507081

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on free cable end, cable length: 10 m

Bus system cable - SAC-5P-M12MSB/15,0-900 - 1507094

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on free cable end, cable length: 15 m

Bus system cable - SAC-5P- 2,0-900/M12FSB - 1507117

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, free cable end, on Socket straight M12, coding: B, cable length: 2 m

Bus system cable - SAC-5P- 5,0-900/M12FSB - 1507120

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, free cable end, on Socket straight M12, coding: B, cable length: 5 m

Distributed I/O device - FLS IB M12 DIO 4/4 M12-2A - 2736026

Accessories

Bus system cable - SAC-5P-10,0-900/M12FSB - 1507133

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, free cable end, on Socket straight M12, coding: B, cable length: 10 m

Bus system cable - SAC-5P-15,0-900/M12FSB - 1507146

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, free cable end, on Socket straight M12, coding: B, cable length: 15 m

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

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 0.3 m

Bus system cable - SAC-5P-M12MSB/ 0,5-900/M12FSB - 1507175

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 0.5 m

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

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, 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-5P-M12MSB/ 2,0-900/M12FSB - 1507191

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 2 m

Bus system cable - SAC-5P-M12MSB/ 5,0-900/M12FSB - 1507201

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 5 m

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

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 10 m

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

Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 15 m

Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128

Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

Distributor with cable

Distributed I/O device - FLS IB M12 DIO 4/4 M12-2A - 2736026

Accessories

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

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

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

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

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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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

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

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

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

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

Distributed I/O device - FLS IB M12 DIO 4/4 M12-2A - 2736026

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 IB M12 DIO 4/4 M12-2A - 2736026

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

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