FLS CO M12 DI 16 M12 - Distributed I/O device

2736479

https://www.phoenixcontact.com/us/products/2736479

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The stand-alone device for CANopen® 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.
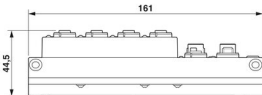
Your advantages

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

Commercial data

Item number	2736479
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI4A3
Catalog page	Page 236 (C-6-2017)
GTIN	4017918974268
Weight per piece (including packing)	339.4 g
Weight per piece (excluding packing)	310 g
Customs tariff number	85176200
Country of origin	CN

Technical data

Dimensions

Dimensional drawing	
Width	60 mm
Height	161 mm
Depth	44.5 mm
Drill hole spacing	151 mm

Interfaces

CANopen®

Connection method	2 M12 connectors, A-coded
Number of positions	5
Transmission speed	10, 20, 50, 125, 250, 500, 1000 kBit/s (Automatic baud rate detection)
Transmission physics	Copper cable with optional power supply in acc. with CAN standard
Address area assignment	1 ... 126, adjustable

System properties

System limits

Number of local bus devices that can be connected	0
Number of devices with parameter channel	0

Module

Input address area	16 bit
Output address area	0 bit
Register length	16 bit

Input data

Digital

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	16
Connection method	M12 connector, double occupancy
Connection technology	2-, 3-, 4-conductor
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
Nominal input voltage U_{IN}	24 V DC
Filter time	1 ms
Protective circuit	Reverse polarity protection

Product properties

Type	Block design
Product type	I/O component
Product family	Fieldline
No. of channels	16

Electrical properties

No. of channels	16

Potentials

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

Supply: 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)

Electrical isolation/isolation of the voltage ranges

Test voltage: 24 V supply (bus logics) / Digital inputs (sensor supply / I/O)	500 V AC, 50 Hz, 1 min.
Test voltage: FE / Digital inputs (sensor supply)	500 V AC, 50 Hz, 1 min.

Connection data

Connection method	M12 connector

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP65/IP67
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)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

Mounting type	Wall mounting

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Drawings

Dimensional drawing
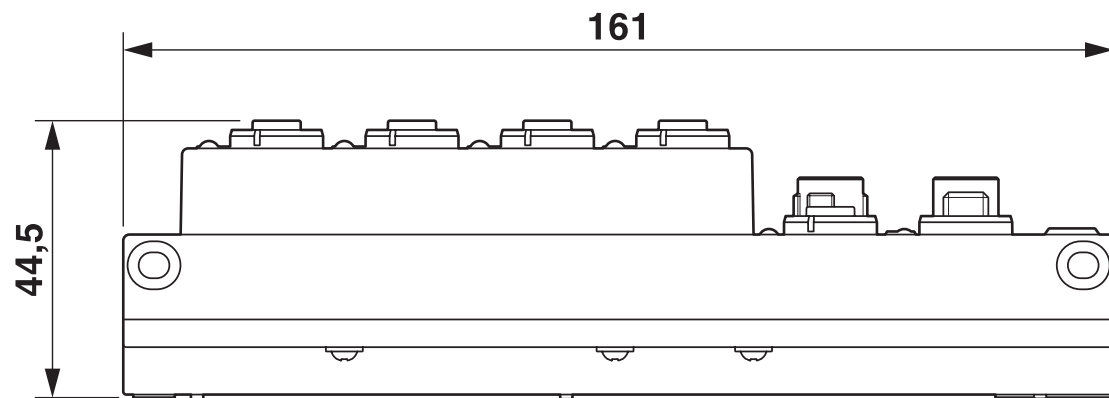
Connection diagram
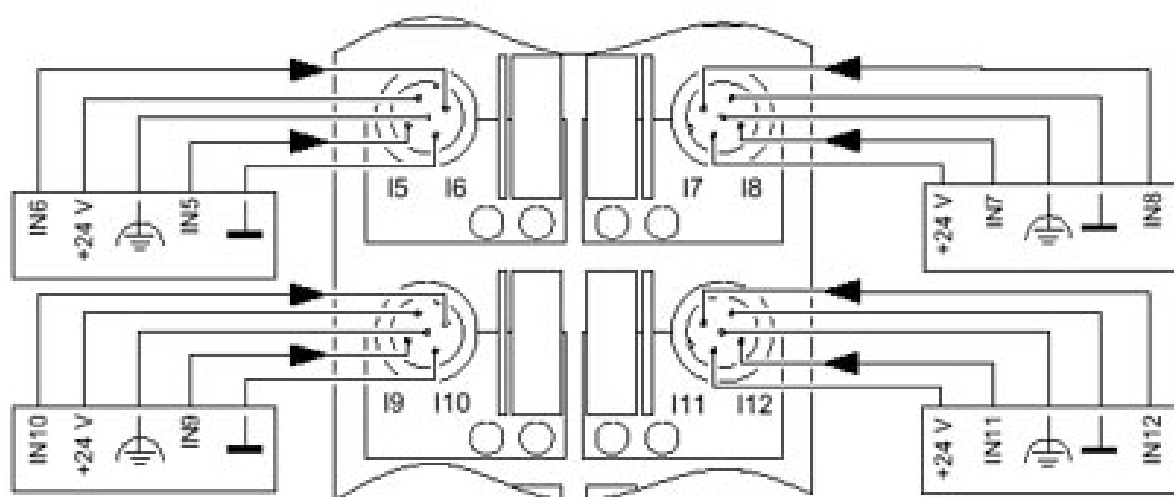
Classifications

ETIM

ETIM 7.0	EC001599

UNSPSC

UNSPSC 21.0	32151602

Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Accessories

ZBF 12:UNBEDRUCKT - Zack Marker strip, flat

0809735

https://www.phoenixcontact.com/us/products/0809735

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

PROT-M12 - Screw plug

1680539

https://www.phoenixcontact.com/us/products/1680539

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

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SAC-5P-M12MS/ 2,0-920 - Bus system cable

1507421

https://www.phoenixcontact.com/us/products/1507421

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, Plug straight M12, coding: A, on free cable end, cable length: 2 m

SAC-5P-M12MS/ 5,0-920 - Bus system cable

1507434

https://www.phoenixcontact.com/us/products/1507434

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, Plug straight M12, coding: A, on free cable end, cable length: 5 m

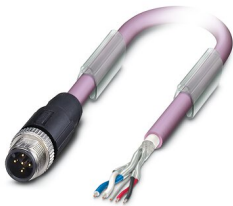# FLS CO M12 DI 16 M12 - Distributed I/O device

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SAC-5P-M12MS/10,0-920 - Bus system cable

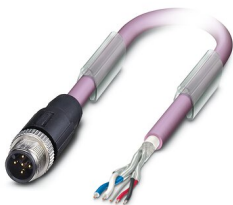1507447

https://www.phoenixcontact.com/us/products/1507447

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, Plug straight M12, coding: A, on free cable end, cable length: 10 m

SAC-5P-M12MS/15,0-920 - Bus system cable

1507450

https://www.phoenixcontact.com/us/products/1507450

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, Plug straight M12, coding: A, on free cable end, cable length: 15 m
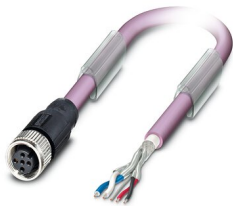
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SAC-5P- 2,0-920/M12FS - Bus system cable

1507476

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Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, free cable end, on Socket straight M12, coding: A, cable length: 2 m

SAC-5P- 5,0-920/M12FS - Bus system cable
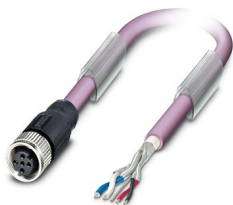
1507489

https://www.phoenixcontact.com/us/products/1507489

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, free cable end, on Socket straight M12, coding: A, cable length: 5 m

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SAC-5P-10,0-920/M12FS - Bus system cable

1507492

https://www.phoenixcontact.com/us/products/1507492

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, free cable end, on Socket straight M12, coding: A, cable length: 10 m

SAC-5P-15,0-920/M12FS - Bus system cable

1507502

https://www.phoenixcontact.com/us/products/1507502

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, free cable end, on Socket straight M12, coding: A, cable length: 15 m

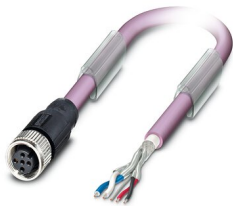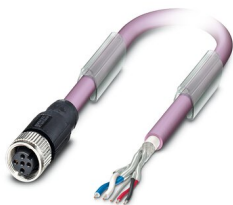# FLS CO M12 DI 16 M12 - Distributed I/O device

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SAC-5P-M12MS/ 0,3-920/M12FS - Bus system cable

1507528

https://www.phoenixcontact.com/us/products/1507528

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 0.3 m

SAC-5P-M12MS/ 0,5-920/M12FS - Bus system cable

1507531

https://www.phoenixcontact.com/us/products/1507531

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 0.5 m

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SAC-5P-M12MS/ 1,0-920/M12FS - Bus system cable

1507544

https://www.phoenixcontact.com/us/products/1507544

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 1 m

SAC-5P-M12MS/ 2,0-920/M12FS - Bus system cable

1507557

https://www.phoenixcontact.com/us/products/1507557

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 2 m

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SAC-5P-M12MS/ 5,0-920/M12FS - Bus system cable

1507560

https://www.phoenixcontact.com/us/products/1507560

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 5 m

SAC-5P-M12MS/10,0-920/M12FS - Bus system cable

1507573

https://www.phoenixcontact.com/us/products/1507573

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 10 m

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SAC-5P-M12MS/15,0-920/M12FS - Bus system cable

1507586

https://www.phoenixcontact.com/us/products/1507586

Bus system cable, CANopen®, DeviceNet™, 5-position halogen-free, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 15 m

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

1509445

https://www.phoenixcontact.com/us/products/1509445

Sensor/actuator cable, 4-position, Plug straight M12, coding: A, connected with unwired, on free cable end, cable length: 2 m

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

1509458

https://www.phoenixcontact.com/us/products/1509458

Sensor/actuator cable, 4-position, Plug straight M12, coding: A, connected with unwired, on free cable end, cable length: 5 m

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

1509461

https://www.phoenixcontact.com/us/products/1509461

Sensor/actuator cable, 4-position, Plug straight M12, coding: A, connected with unwired, on free cable end, cable length: 10 m

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

1509474

https://www.phoenixcontact.com/us/products/1509474

Sensor/actuator cable, 4-position, Plug straight M12, coding: A, connected with unwired, on free cable end, cable length: 15 m

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

1509487

https://www.phoenixcontact.com/us/products/1509487

Sensor/actuator cable, 4-position, free cable end, on Socket straight M12, coding: A, cable length: 2 m

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

1509490

https://www.phoenixcontact.com/us/products/1509490

Sensor/actuator cable, 4-position, free cable end, on Socket straight M12, coding: A, cable length: 5 m

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

1509500

https://www.phoenixcontact.com/us/products/1509500

Sensor/actuator cable, 4-position, free cable end, on Socket straight M12, coding: A, cable length: 10 m

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

1509513

https://www.phoenixcontact.com/us/products/1509513

Sensor/actuator cable, 4-position, free cable end, on Socket straight M12, coding: A, cable length: 15 m

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

1509526

https://www.phoenixcontact.com/us/products/1509526

Sensor/actuator cable, 4-position, Plug straight M12, coding: A, connected with unwired, on Socket straight M12, coding: A, cable length: 0.3 m

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

1509539

https://www.phoenixcontact.com/us/products/1509539

Sensor/actuator cable, 4-position, Plug straight M12, coding: A, connected with unwired, on Socket straight M12, coding: A, cable length: 0.5 m

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

1509542

https://www.phoenixcontact.com/us/products/1509542

Sensor/actuator cable, 4-position, Plug straight M12, coding: A, connected with unwired, on Socket straight M12, coding: A, cable length: 1 m

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

1509555

https://www.phoenixcontact.com/us/products/1509555

Sensor/actuator cable, 4-position, Plug straight M12, coding: A, connected with unwired, on Socket straight M12, coding: A, cable length: 2 m

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

1509568

https://www.phoenixcontact.com/us/products/1509568

Sensor/actuator cable, 4-position, Plug straight M12, coding: A, connected with unwired, on Socket straight M12, coding: A, cable length: 5 m

FLS CO M12 DI 16 M12 - Distributed I/O device

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https://www.phoenixcontact.com/us/products/2736479

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

1509571

https://www.phoenixcontact.com/us/products/1509571

Sensor/actuator cable, 4-position, Plug straight M12, coding: A, connected with unwired, on Socket straight M12, coding: A, cable length: 10 m

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

1509584

https://www.phoenixcontact.com/us/products/1509584

Sensor/actuator cable, 4-position, Plug straight M12, coding: A, connected with unwired, on Socket straight M12, coding: A, cable length: 15 m

FLS CO M12 DI 16 M12 - Distributed I/O device

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

1510722

https://www.phoenixcontact.com/us/products/1510722

Sensor/actuator cable, 4-position halogen-free, Plug straight M12, coding: A, on Socket straight M12, coding: A and Socket straight M12, coding: A, cable length: 0.3 m, Parallel distributor

SACC-M12MS-5CON-PG 9 SH AU - Data connector

1508352

https://www.phoenixcontact.com/us/products/1508352

Data connector, CAN Bus/DeviceNet, 5-position, shielded, Plug straight M12, A, 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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SACC-M12FS-5CON-PG 9 SH AU - Data connector

1508365

https://www.phoenixcontact.com/us/products/1508365

Data connector, CAN Bus/DeviceNet, 5-position, shielded, Socket straight M12, A, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6.5 mm ... 8.5 mm

SAC-M12T/2XM12 CAN - T distributor

1507793

https://www.phoenixcontact.com/us/products/1507793

T distributor, CANopen®, DeviceNet™, 5-position, Plug straight M12, coding: A, on Socket straight M12, coding: A and Socket straight M12, coding: A

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SAC-5P-M12MS CAN TR - Termination resistor

Terminating resistor CANopen®/DeviceNet™ M12