

# FLS CO M12 DIO 8/8 M12 - Distributed I/O device



2736482

<https://www.phoenixcontact.com/us/products/2736482>

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The stand-alone device for CANopen<sup>®</sup> has 8 digital inputs and 8 digital outputs each with a load capacity of 500 mA. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload.

## Your advantages


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

## Commercial data

Item number	2736482
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI4A3
Catalog page	Page 236 (C-6-2017)
GTIN	4017918974275
Weight per piece (including packing)	377.1 g
Weight per piece (excluding packing)	350 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Dimensions

Dimensional drawing	
Width	60 mm
Height	178 mm
Depth	49.3 mm
Drill hole spacing	168 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	8 bit
Output address area	8 bit

### Input data

#### Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	8
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

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Filter time	3 ms
Protective circuit	Reverse polarity protection

## Output data

Digital:

Output name	Digital outputs
Connection method	M12 connector, double occupancy
Connection technology	2-, 3-conductor
Number of outputs	8
Protective circuit	Short-circuit protection
Output voltage	24 V DC
Maximum output current per channel	500 mA

## Product properties

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

## Electrical properties

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

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)

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## 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
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## 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

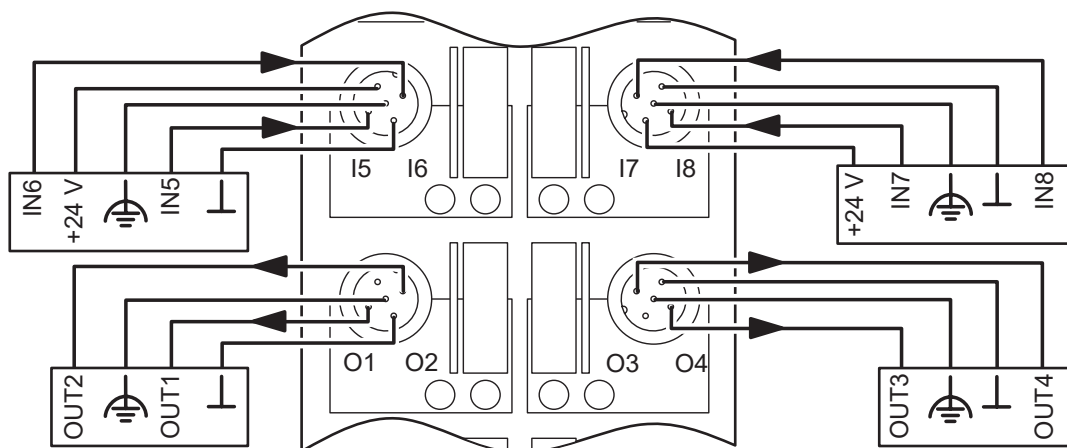
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

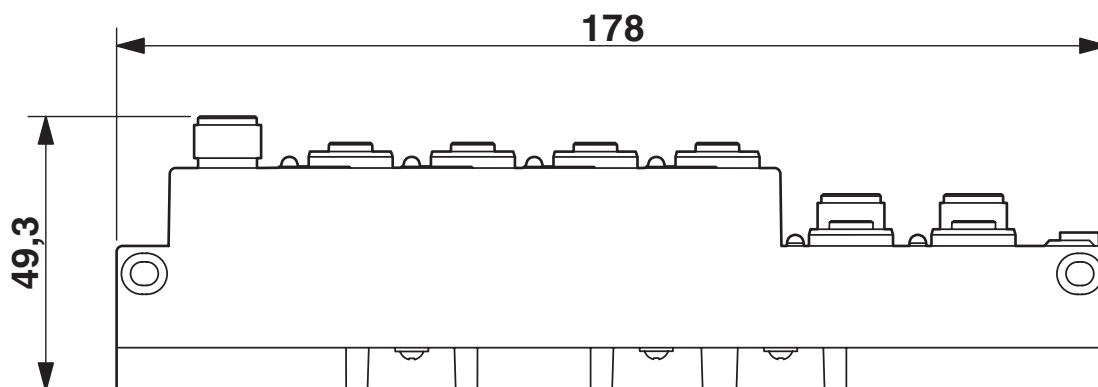
Mounting type	Wall mounting
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## Drawings

Connection diagram



Dimensional drawing



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## Classifications

### UNSPSC

UNSPSC 21.0	32151602
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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## 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

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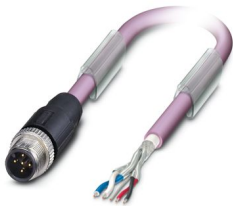
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## SAC-5P-M12MS/ 2,0-920 - Bus system cable

1507421

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



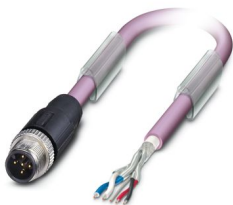
Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: A, on free cable end, cable length: 2 m

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

1507434

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



Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: A, on free cable end, cable length: 5 m

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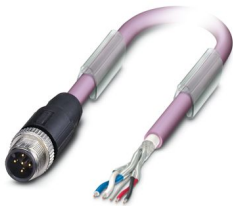
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## SAC-5P-M12MS/10,0-920 - Bus system cable

1507447

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



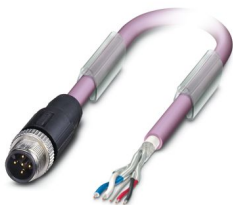
Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: A, on free cable end, cable length: 10 m

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

1507450

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



Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: A, on free cable end, cable length: 15 m

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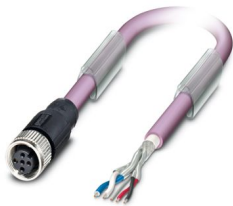
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## SAC-5P- 2,0-920/M12FS - Bus system cable

1507476

<https://www.phoenixcontact.com/us/products/1507476>



Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, free cable end, on Socket straight M12, coding: A, cable length: 2 m

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

1507489

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



Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, free cable end, on Socket straight M12, coding: A, cable length: 5 m

# FLS CO M12 DIO 8/8 M12 - Distributed I/O device



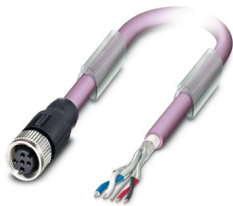
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## SAC-5P-10,0-920/M12FS - Bus system cable

1507492

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



Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, free cable end, on Socket straight M12, coding: A, cable length: 10 m

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

1507502

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



Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, free cable end, on Socket straight M12, coding: A, cable length: 15 m

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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, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 0.3 m

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## 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, PUR halogen-free, red lilac RAL 4001, 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, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 1 m

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## 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, PUR halogen-free, red lilac RAL 4001, 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, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 5 m

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## 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, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 10 m

# FLS CO M12 DIO 8/8 M12 - Distributed I/O device



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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, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 15 m

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

1509445

<https://www.phoenixcontact.com/us/products/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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## SAC-4P-M12MS/ 5,0-186 - Sensor/actuator cable

1509458

<https://www.phoenixcontact.com/us/products/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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## SAC-4P-M12MS/10,0-186 - Sensor/actuator cable

1509461

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



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

# FLS CO M12 DIO 8/8 M12 - Distributed I/O device



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

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

1509487

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



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

# FLS CO M12 DIO 8/8 M12 - Distributed I/O device



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

1509490

<https://www.phoenixcontact.com/us/products/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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## SAC-4P-10,0-186/M12FS - Sensor/actuator cable

1509500

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



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

# FLS CO M12 DIO 8/8 M12 - Distributed I/O device



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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, PUR, black-gray RAL 7021, free cable end, on Socket straight M12, coding: A, cable length: 15 m

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

1509526

<https://www.phoenixcontact.com/us/products/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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## SAC-4P-M12MS/ 0,5-186/M12FS - Sensor/actuator cable

1509539

<https://www.phoenixcontact.com/us/products/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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## SAC-4P-M12MS/ 1,0-186/M12FS - Sensor/actuator cable

1509542

<https://www.phoenixcontact.com/us/products/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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## SAC-4P-M12MS/ 2,0-186/M12FS - Sensor/actuator cable

1509555

<https://www.phoenixcontact.com/us/products/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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## SAC-4P-M12MS/ 5,0-186/M12FS - Sensor/actuator cable

1509568

<https://www.phoenixcontact.com/us/products/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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## SAC-4P-M12MS/10,0-186/M12FS - Sensor/actuator cable

1509571

<https://www.phoenixcontact.com/us/products/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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## SAC-4P-M12MS/15,0-186/M12FS - Sensor/actuator cable

1509584

<https://www.phoenixcontact.com/us/products/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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## SAC-4P-M12Y/2X0,3-PUR/M12FS VP - Sensor/actuator cable

1510722

<https://www.phoenixcontact.com/us/products/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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## 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, coding: 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, coding: 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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## SAC-5P-M12MS CAN TR - Termination resistor

1507816

<https://www.phoenixcontact.com/us/products/1507816>



Terminating resistor CANopen<sup>®</sup>/DeviceNet<sup>™</sup> M12

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