



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



FLS DN M12 DI 8 M12


Order No.: 2736068



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2736068>


The stand-alone device for DeviceNet™ 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.



| Commercial data | |
|--------------------------|--|
| GTIN (EAN) |  4 017918 899622 |
| sales group | L021 |
| Pack | 1 pcs. |
| Customs tariff | 85176200 |
| Catalog page information | Page 354 (AX-2009) |

Product notes

WEEE/RoHS-compliant since:
06/15/2009



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

| General data | |
|--------------|---------|
| Width | 60 mm |
| Height | 161 mm |
| Depth | 44.5 mm |

| | |
|--|---|
| Drill hole spacing | 151 mm |
| Weight | 310 g |
| Mounting type | Wall mounting |
| 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 | IP65/67 |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |
| Test section | 24 V supply (bus logics) / FE |
| | 24 V supply (bus logics) / Digital inputs (sensor supply) 500 V AC 50 Hz 1 min |
| | FE / Digital inputs (sensor supply) 500 V AC 50 Hz 1 min |
| Mechanical tests | Shock test in acc. with IEC 60068-2-27 Load 30 g, half sine wave, positive and negative per direction |

Interface

| | |
|-------------------------|---|
| Fieldbus system | DeviceNet™ |
| Name | DeviceNet™ |
| Type of connection | 2 M12 plug connectors, A-coded |
| Transmission speed | 125 kBaud, 250 kBaud, 500 kBaud automatic detection 125 kBit/s, 250 kBit/s, 500 kBit/s (Automatic baud rate detection) |
| Transmission physics | Copper cable in acc. with DeviceNet™ specification |
| Address area assignment | 0 ... 63, can be set |
| Number of positions | 5 |

Power supply for module electronics

| | |
|----------------------|--|
| Type of connection | M12 plug connectors, (A-coded) |
| Name | U_L |
| Supply voltage | 24 V DC |
| Supply voltage range | 11 V DC ... 30 V DC IEC 61131-2 (including ripple) |

Fieldline potential routing

| | |
|-----------------------|----------|
| 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. 5 mA (plus sensor current) max. 700 mA |

Digital inputs

| | |
|--------------------------------|--------------------------------------|
| Input name | Digital inputs |
| Type of connection | M12 male connector |
| Connection method | 2, 3, 4-wire |
| Number of inputs | 8 |
| Protective circuit | Protection against polarity reversal |
| Filter time | 3 ms |
| Input characteristic curve | IEC 61131-2 type 1 |
| 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 |

Certificates / Approvals



| | |
|-------------------|---------------|
| Certification | CUL, GOST, UL |
| Certification Ex: | CUL-EX, UL-EX |

Accessories

| Item | Designation | Description |
|---------|-----------------------|--|
| 1509487 | SAC-4P- 2,0-186/M12FS | Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 2 m |

| | | |
|---------|------------------------------|--|
| 1509490 | SAC-4P- 5,0-186/M12FS | Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 5 m |
| 1509500 | SAC-4P-10,0-186/M12FS | Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 10 m |
| 1509513 | SAC-4P-15,0-186/M12FS | Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 15 m |
| 1509526 | SAC-4P-M12MS/ 0,3-186/ M12FS | 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 |
| 1509539 | SAC-4P-M12MS/ 0,5-186/ M12FS | 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 |
| 1509542 | SAC-4P-M12MS/ 1,0-186/ M12FS | 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 |
| 1509445 | SAC-4P-M12MS/ 2,0-186 | Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 2 m |
| 1509555 | SAC-4P-M12MS/ 2,0-186/ M12FS | 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 |
| 1509458 | SAC-4P-M12MS/ 5,0-186 | Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 5 m |
| 1509568 | SAC-4P-M12MS/ 5,0-186/ M12FS | 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 |
| 1509461 | SAC-4P-M12MS/10,0-186 | Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 10 m |
| 1509571 | SAC-4P-M12MS/10,0-186/ M12FS | 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 |
| 1509474 | SAC-4P-M12MS/15,0-186 | Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 15 m |
| 1509584 | SAC-4P-M12MS/15,0-186/ M12FS | 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 |
| 1507476 | SAC-5P- 2,0-920/M12FS | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, A-coded, Cable length: 2 m |
| 1507489 | SAC-5P- 5,0-920/M12FS | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, A-coded, Cable length: 5 m |

| | | |
|---------|-----------------------------|---|
| 1507492 | SAC-5P-10,0-920/M12FS | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, A-coded, Cable length: 10 m |
| 1507502 | SAC-5P-15,0-920/M12FS | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, A-coded, Cable length: 15 m |
| 1507528 | SAC-5P-M12MS/ 0,3-920/M12FS | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 0.3 m |
| 1507531 | SAC-5P-M12MS/ 0,5-920/M12FS | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 0.5 m |
| 1507544 | SAC-5P-M12MS/ 1,0-920/M12FS | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 1 m |
| 1507421 | SAC-5P-M12MS/ 2,0-920 | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Free conductor end, Cable length: 2 m |
| 1507557 | SAC-5P-M12MS/ 2,0-920/M12FS | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 2 m |
| 1507434 | SAC-5P-M12MS/ 5,0-920 | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Free conductor end, Cable length: 5 m |
| 1507560 | SAC-5P-M12MS/ 5,0-920/M12FS | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 5 m |
| 1507447 | SAC-5P-M12MS/10,0-920 | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Free conductor end, Cable length: 10 m |
| 1507573 | SAC-5P-M12MS/10,0-920/M12FS | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 10 m |
| 1507450 | SAC-5P-M12MS/15,0-920 | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Free conductor end, Cable length: 15 m |
| 1507586 | SAC-5P-M12MS/15,0-920/M12FS | Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 15 m |

Marking

| | | |
|---------|-------------------|---|
| 0809735 | ZBF 12:UNBEDRUCKT | Zack strip, flat, unprinted, 5-section, divisible, for labeling by the customer |
|---------|-------------------|---|

Plug/Adapter

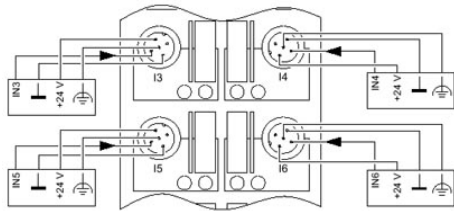
| | | |
|---------|------------------------------------|---|
| 1510722 | SAC-4P-M12Y/2X0,3-PUR/ M12FS VP | Sensor/Actuator cable, 4-position, PUR, halogen-free, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded and Socket, straight M12, A-coded, Cable length: 0.3 m |
| 1507816 | SAC-5P-M12MS CAN TR | Terminating resistor CANopen/DeviceNet™ M12 |
| 1507793 | SAC-M12T/2XM12 CAN | Bus system T-connector, 5-pos., DeviceNet™/CANopen, M12 socket to M12 socket and M12 plug |
| 1508365 | SACC-M12FS-5CON-PG 9 SH AU | Bus system plug connector, female straight, 5-pos., M12, shielded, gold-plated contacts, A-coded, screw connection, metal knurl, cable screw connection Pg9 |
| 1508352 | SACC-M12MS-5CON-PG 9 SH AU | Bus system plug connector, male, straight, 5-pos., M12, shielded, gold-plated contacts, A-coded, screw connection, metal knurl, cable screw connection Pg9 |

Protection and sealing elements

| | | |
|---------|----------|---|
| 1680539 | PROT-M12 | An M12 screw plug for the unoccupied M12 sockets of the sensor/ actuator cable, boxes and flush-type connectors |
|---------|----------|---|

Diagrams/Drawings

Connection diagram



Address

PHOENIX CONTACT Deutschland GmbH
Flachmarktstr. 8
32825 Blomberg, Germany
Phone +49 5235 3 12000
Fax +49 5235 3 41200
<http://www.phoenixcontact.de>



© 2011 Phoenix Contact
Technical modifications reserved;