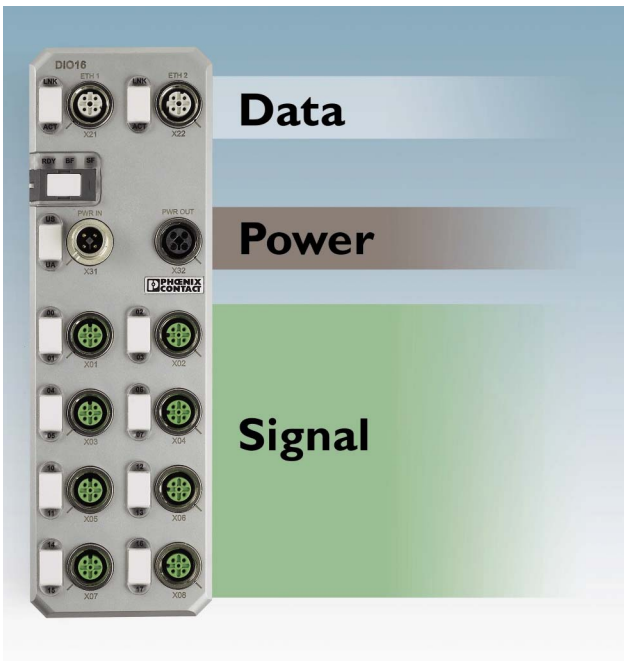
# AH EN AXL E CABLE / WIRING

## Wiring of Axioline E devices

Application note
108441_en_02



## 1 Description




This user guide describes various cable types that you can use with devices of the Axioline E product group.

Cable types are considered for the following interfaces:

- Network
- Power supply
- Periphery
  - IO connections
  - IO-Link ports

You will also find information about the connections on the Axioline E devices and their pin assignments.

In addition, you will find a list of accessories for Axioline E devices.

Phoenix Contact offers the complete range of cables for the Axioline E product group and recommends the use of pre-assembled cables.

Further information on the cables can be found in the Phoenix Contact catalogs.

## Table of contents

## 2 Network wiring

Phoenix Contact offers the complete range of network cables for the product group Axioline E. The connection of network is carried out via screw-on M12 plug connectors.

The use of Axioline E devices is possible in the following networks:

| | |
|---|---|
| PROFINET |  |
| EtherNet/IP |  |
| sercos the automation bus |  |
| Modbus |  |
| EtherCAT |  |
| PROFIBUS |  |

## 2.1 Network wiring of the ethernet-based Axioline E devices (PROFINET / EtherCAT®/ Ethernet / EtherNet/IP™ / Sercos)

The network connections of the ethernet-based Axioline E devices are identical. Only the Axioline E EtherCAT® devices differ in their **labeling**.

### 2.1.1 Network connection PROFINET / Ethernet / EtherNet/IP™ / Sercos

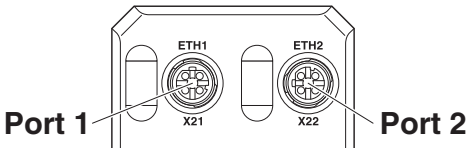



Figure 1 Network connection of the ethernet-based Axioline E devices, D coded

| Designation | Meaning |
|---|---|
| Port 1 (X21) | Ethernet port 1 |
| Port 2 (X22) | Ethernet port 2 |

### 2.1.2 Network connection EtherCAT®

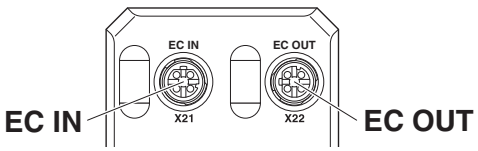



Figure 2 Network connection of the Axioline E EtherCAT® devices, D coded

| Designation | Meaning |
|---|---|
| EC IN (X21) | EtherCAT® IN |
| EC OUT (X22) | EtherCAT® OUT |

### 2.1.3 Pin assignment of the Network connection of the ethernet-based Axioline E devices

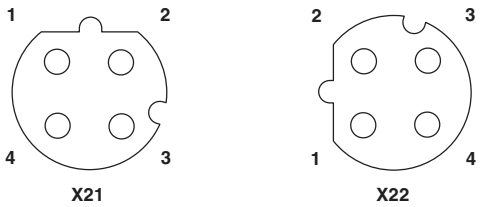



Figure 3 Pin-assignment network connection, D coded

| Pin | X21 | X22 |
|---|---|---|
| | Ethernet port 1 | Ethernet port 2 |
| | EC IN | EC OUT |
| 1 | TX+ | TX+ |
| 2 | RX+ | RX+ |
| 3 | TX- | TX- |
| 4 | RX- | RX- |

### 2.1.4 Network cable for PROFINET and EtherCAT®

For PROFINET/EtherCAT® you can order the following cable types.

| Description | Cable length | Order No. | Pcs./Pkt. | Figure |
|---|---|---|---|---|
| Network cable, M12 male, straight, shielded, free cable end | 1 m | 1407495 | 1 |  |
| | 2 m | 1407496 | 1 | |
| | 5 m | 1407497 | 1 | |
| | 10 m | 1407498 | 1 | |
| | 15 m | 1524336 | 1 | |
| Network cable, M12 socket, straight, shielded, free cable end | 1 m | 1407528 | 1 |  |
| | 2 m | 1407529 | 1 | |
| | 5 m | 1407530 | 1 | |
| | 10 m | 1407531 | 1 | |
| Network cable, M12 male, straight, shielded, M12 socket, straight, shielded | 1 m | 1407553 | 1 |  |
| | 2 m | 1407554 | 1 | |
| | 5 m | 1407555 | 1 | |
| | 10 m | 1407556 | 1 | |
| Network cable, M12 male, straight, shielded, M12 male, straight, shielded | 0.3 m | 1524349 | 1 |  |
| | 0.5 m | 1524352 | 1 | |
| | 1 m | 1407524 | 1 | |

### 2.1.5 Network cable for Ethernet and EtherNet/IP™

For Ethernet and EtherNet/IP™ you can order the following cable types.

| Description | Cable length | Order No. | Pcs./Pkt. | Figure |
|---|---|---|---|---|
| Network cable, M12 male, straight, shielded, free cable end | 1 m | 1407356 | 1 |  |
| | 2 m | 1407357 | 1 | |
| | 5 m | 1407358 | 1 | |
| | 10 m | 1407359 | 1 | |
| | 15 m | 1569427 | 1 | |
| Network cable, M12 socket, straight, shielded, free cable end | 1 m | 1407380 | 1 |  |
| | 2 m | 1407381 | 1 | |
| | 5 m | 1407382 | 1 | |
| | 10 m | 1407383 | 1 | |
| Network cable, M12 male, straight, shielded, M12 socket, straight, shielded | 1 m | 1407400 | 1 |  |
| | 2 m | 1407401 | 1 | |
| | 5 m | 1407402 | 1 | |
| | 10 m | 1407403 | 1 | |
| Network cable, M12 male, straight, shielded, M12 male, straight, shielded | 0.5 m | 1569443 | 1 |  |
| | 1 m | 1407376 | 1 | |
| | 2 m | 1407377 | 1 | |
| | 5 m | 1407378 | 1 | |
| | 10 m | 1407379 | 1 | |

### 2.1.6 Network cable for Sercos

For Sercos you can order the following cable types.

| Description | Cable length | Order No. | Pcs./Pkt. | Figure |
|---|---|---|---|---|
| Network cable,<br>M12 male, straight, shielded,<br>free cable end | 2 m | 1419172 | 1 |  |
| Network cable,<br>M12 male, straight, shielded,<br>on plug straight RJ45 | 2 m | 1419168 | 1 |  |
| Network cable,<br>M12 male, straight, shielded,<br>M12 male, straight, shielded | 2 m | 1419169 | 1 |  |

## 2.2 Network wiring for PROFIBUS

### 2.2.1 Network connection PROFIBUS

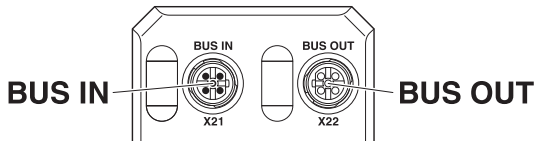



Figure 4 Network connection of the Axioline E PROFIBUS devices

| Description | Meaning |
|---|---|
| BUS IN (X21) | PROFIBUS IN |
| BUS OUT (X22) | PROFIBUS OUT |

### 2.2.2 PROFIBUS pin assignment

The bus is connected via two B-coded M12 connectors. The incoming bus (IN) is a connector and the outgoing bus (OUT) is a socket.

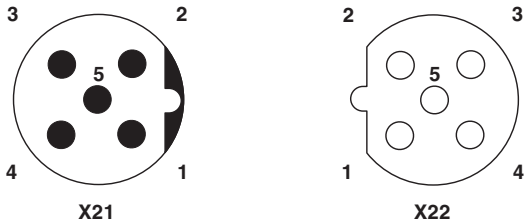



Figure 5 PROFIBUS pin assignment, B-coded

| Pin | Signal | Specifikation | Description |
|---|---|---|---|
| 1 | VP | V | 5 V termination resistor |
| 2 | RxD / TxD-N (A) | A, RS-485, PD | Inverted bus cable |
| 3 | DGND | V | 0 V |
| 4 | RxD / TxD-P (B) | B, RS-485, PU | Non-inverted bus cable |
| 5 | Not connected | - | - |

| | | |
|---|---|---|
| A | = | A line |
| B | = | B line |
| RS-485 | = | RS-485 level, bidirectional |
| V | = | Power supply |
| PU | = | Pullup |
| PD | = | Pulldown |

### 2.2.3 Network cable for PROFIBUS

For PROFIBUS you can order the following cable types.

| Description | Cable length | Order No. | Pcs./Pkt. | Figure |
|---|---|---|---|---|
| Network cable,<br>M12 male, straight, shielded,<br>free cable end | 2 m | 1518025 | 1 |  |
| | 5 m | 1518038 | 1 | |
| | 10 m | 1518041 | 1 | |
| | 15 m | 1518054 | 1 | |
| Network cable,<br>M12 socket, straight, shielded,<br>free cable end | 2 m | 1518067 | 1 |  |
| | 5 m | 1518070 | 1 | |
| | 10 m | 1518083 | 1 | |
| | 15 m | 1518096 | 1 | |
| Network cable,<br>M12 male, straight, shielded,<br>M12 socket, straight, shielded | 0.3 m | 1518106 | 1 |  |
| | 0.5 m | 1518119 | 1 | |
| | 1 m | 1518122 | 1 | |
| | 2 m | 1518135 | 1 | |
| | 5 m | 1518148 | 1 | |
| | 10 m | 1518151 | 1 | |
| | 15 m | 1518164 | 1 | |

### 2.2.4 Accessories for PROFIBUS

For PROFIBUS the following accessories are offered.

| Description | Order No. | Pcs./Pkt. | Figure |
|---|---|---|---|
| T distributor PROFIBUS DP (12 Mbps),<br>5-positions, shielded,<br>Socket straight M12, B-coded,<br>on connector straight M12, B-coded<br>and connector straight M12, B-coded,<br>Thread M12 connector input not rotatable | 1424713 | 1 |  |
| T distributor PROFIBUS DP (12 Mbps),<br>5-positions, shielded,<br>Socket straight M12, B-coded,<br>on connector straight M12, B-coded<br>and connector straight M12, B-coded, | 1424711 | | |
| Termination resistor, PROFIBUS M12 | 1507803 | 1 |  |

# 3 Power supply (Power cable)

The power supply is connected via screw-on M12 connectors. The connections are identical for all Axioline E master.

## 3.1 Power supply connections

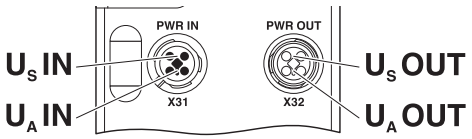



Figure 6 Power supply connections

| Description | Meaning |
|---|---|
| $U_S$ IN (X31) | Power supply IN (logic and sensors) |
| $U_A$ IN (X31) | Power supply IN (actuators) |
| $U_S$ OUT (X32) | Power supply OUT for additional devices |
| $U_A$ OUT (X32) | Power supply OUT for additional devices |

## 3.2 Pin assignment of the power supply $U_S/U_A$

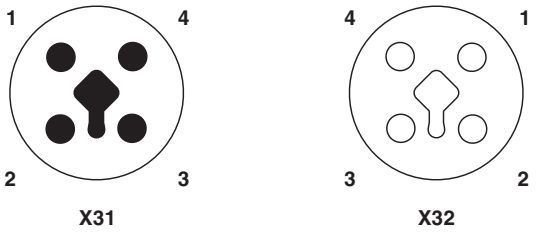



Figure 7 Pin assignment of the power supply, T-coded

| Pin | IN | OUT | Conductor colors |
|---|---|---|---|
| 1 | +24 V DC ($U_S$) | +24 V DC ($U_S$) | Brown |
| 2 | GND ($U_A$) | GND ($U_A$) | White |
| 3 | GND ($U_S$) | GND ($U_S$) | Blue |
| 4 | +24 V DC ($U_A$) | +24 V DC ($U_A$) | Black |

Make sure that the power supply UA and the power supply US of two independent connected, electrically isolated power supplies takes place.

### 3.3 M12-SPEEDCON Power cable

To connect the supply voltages, the following cable types can be ordered for the Axioline E devices.

**M12-SPEEDCON Power cable**
**4-positions, T-coded**
**Cable type: PUR**

**Free cable end**

**M12 connector, straight**

**M12 connector, angled**

| Description | Cable length | Order No. | Cable length | Order No. | Cable length | Order No. |
|---|---|---|---|---|---|---|
| **Free cable end** | | | 1 m | 1408812 | 1 m | 1408816 |
|  | | | 2 m | 1408813 | 2 m | 1408819 |
| | | | 5 m | 1408814 | 5 m | 1408820 |
| | | | 10 m | 1408815 | 10 m | 1408822 |
| **M12 socket, straight** | 1 m | 1408823 | 1 m | 1408808 | | |
|  | 2 m | 1408824 | 2 m | 1408809 | | |
| | 5 m | 1408825 | 5 m | 1408810 | | |
| | 10 m | 1408826 | 10 m | 1408811 | | |
| **M12 socket, angled** | 1 m | 1408827 | | | 1 m | 145196 |
|  | 2 m | 1408828 | | | 2 m | 145197 |
| | 5 m | 1408829 | | | 5 m | 145198 |
| | 10 m | 1408830 | | | 10 m | 145199 |

# 4 Connection of the periphery

The connection of inputs and outputs is executed via M12 screw connectors.

## 4.1 Digital IO connections

Depending on the device variant, there are 8 sockets for inputs and outputs on the Axioline E devices.

### 4.1.1 Connection of the inputs and outputs

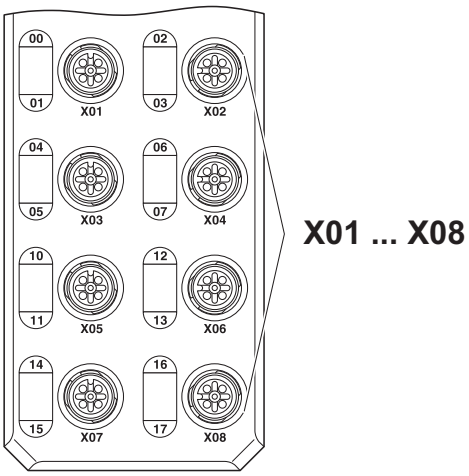



Figure 8 Connections of the inputs and outputs depending on the device variant

| Description | Meaning |
|---|---|
| X01 ... X08 | Inputs / outputs |

### 4.1.2 Pin assignment of the inputs and outputs

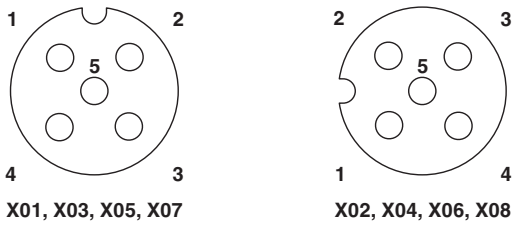



Figure 9 Pin assignment of the inputs and outputs, A-coded

| Pin | Socket |
|---|---|
| 1 | +24 V DC ($U_S$) |
| 2 | Input / output |
| 3 | GND |
| 4 | Input / output |
| 5 | FE |

### 4.1.3 M12-SAC cable (5-positions with FE)

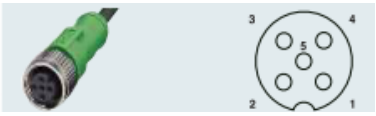
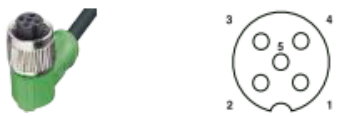
To connect actuators and sensors, the following cable types can be ordered for the Axioline E devices.

**M12 SAC cable**
**5-positions, A-coded**
**Cable type: PUR**

**Free cable end**

**M12 connector straight**


**M12 connector, angled**


| Description | Cable length | Order No. | Cable length | Order No. | Cable length | Order No. |
|---|---|---|---|---|---|---|
| **Free cable end**  | | | 1.5 m | 1669767 | 1.5 m | 1669796 |
| | | | 3 m | 1669770 | 3 m | 1669806 |
| | | | 5 m | 1669783 | 5 m | 1669819 |
| | | | 10 m | 1683361 | 10 m | 1694460 |
| | | | Variable | 1697098 | Variable | 1697108 |
| **M12 socket, straight**   | 1.5 m | 1669822 | 0.3 m | 1681583 | | |
| | 3 m | 1669835 | 0.6 m | 1681596 | | |
| | 5 m | 1669848 | 1.5 m | 1681606 | | |
| | 10 m | 1694541 | 3 m | 1681619 | | |
| | Variable | 1697124 | Variable | 1697140 | Variable | 1508734 |
| **M12 socket, angled**   | 1.5 m | 1669851 | 0.3 m | 1681622 | | |
| | 3 m | 1669864 | 0.6 m | 1681635 | | |
| | 5 m | 1669877 | 1.5 m | 1681648 | | |
| | 10 m | 1694541 | 3 m | 1681651 | | |
| | Variable | 1697124 | Variable | 1697153 | Variable | 1529506 |

### 4.1.4 M12-SAC cable (4-positions without FE)

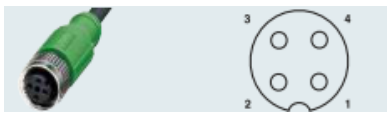
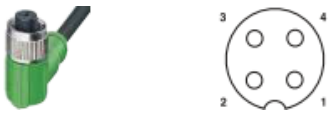
To connect actuators and sensors, the following cable types can be ordered for the Axioline E devices.

**M12-SAC cable**
**4-positions shielded, A-coded**
**Cable type: PUR**

**Free cable end**

**M12 connector, straight**
**360 °C shielded**


**M12 connector, angled**
**360 °C shielded**


| Description | Cable length | Order No. | Cable length | Order No. | Cable length | Order No. |
|---|---|---|---|---|---|---|
| **Free cable end** | | | 1.5 m | 1682715 | 1.5 m | 1682870 |
|  | | | 3 m | 1682618 | 3 m | 1682883 |
| | | | 5 m | 1682647 | 5 m | 1682896 |
| | | | 10 m | 1694389 | 10 m | 1500703 |
| | | | Variable | 1697467 | Variable | 1697470 |
| **M12 socket, straight, 360 °C shielded** | | | | | | |
|  | 1.5 m | 1682841 | 0.3 m | 1500842 | | |
| | 3 m | 1682854 | 0.6 m | 1500855 | | |
| | 5 m | 1682867 | 1.5 m | 1500868 | | |
| | 10 m | 1500716 | 3 m | 1500871 | | |
| | Variable | 1697483 | Variable | 1536081 | Variable | 1536104 |
| **M12 socket, angled, 360 °C shieldedt** | | | | | | |
|  | 1.5 m | 1682906 | 0.3 m | 1500965 | | |
| | 3 m | 1682919 | 0.6 m | 1500978 | | |
| | 5 m | 1682922 | 1.5 m | 1500981 | | |
| | 10 m | 1500729 | 3 m | 1500994 | | |
| | Variable | 1697496 | Variable | 1536094 | Variable | 1536117 |

### 4.1.5 Y cable

If both signals are to run in one cable, use a 5-pin cable.

– Pin 2: straight inputs and outputs
– Pin 4: odd inputs and outputs

Use a Y cable if both signals are to be in separate cables.

**Pin assignment of the inputs and outputs**

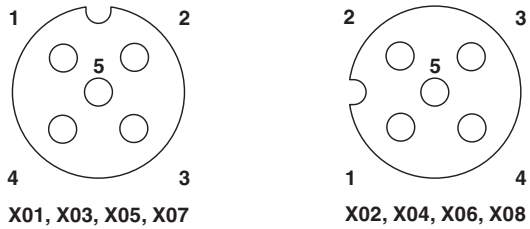



Bild 10 Pin-assignment of the inputs and outputs, A-coded

| Pin | Socket |
|---|---|
| 1 | +24 V DC ($U_S$) |
| 2 | Input / output |
| 3 | GND |
| 4 | Input / output |
| 5 | FE |

| Description | Cable lenght | Order No | Pcs./Pkt. | Figure |
|---|---|---|---|---|
| Sensor / actuator cable<br>SAC-3P-Y-2XFS SCO/.../...<br>3-positions, variable cable type,<br>Connector straight M12 SPEEDCON, A-coded,<br>on socket straight M12 SPEEDCON, A-coded and socket straight M12 SPEEDCON | Free input<br>(0.2 m ... 40.0 m) | 1542198 | 1 |  |
| Sensor/actuator cable,<br>SAC-3P-Y-2XFS B SCO/.../...<br>3-position, variable cable type,<br>connector straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded,<br>PIN 2+4 bridged and Socket straight M12 SPEEDCON, PIN 2+4 bridged, | Free input<br>(0.2 m ... 40.0 m) | 1542169 | 1 | |
| Y distributor<br>SAC-3P-Y-2XFS B PE SCO<br>4-position, connector straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, PIN 2+4 bridged and Socket straight M12 SPEEDCON, A-coded, PIN 2+4 bridged, Thread M12 socket not rotatable | | 1523968 | 5 |  |
| Y distributor,<br>SAC-3P-M12Y/2XM12FS PE /.../...,<br>4-position, unshielded, Plug straight M12, A-coded, on Socket straight M12, A-coded and Socket straight M12, A-coded | | 1683455 | 5 | |
| Y distributor,<br>SAC-3P-M12Y/2XM12FS PE S21,<br>4-position, unshielded, Plug straight M12, A-coded, on Socket straight M12, A-coded and Socket straight M12, A-coded | | 1511789 | 5 | |

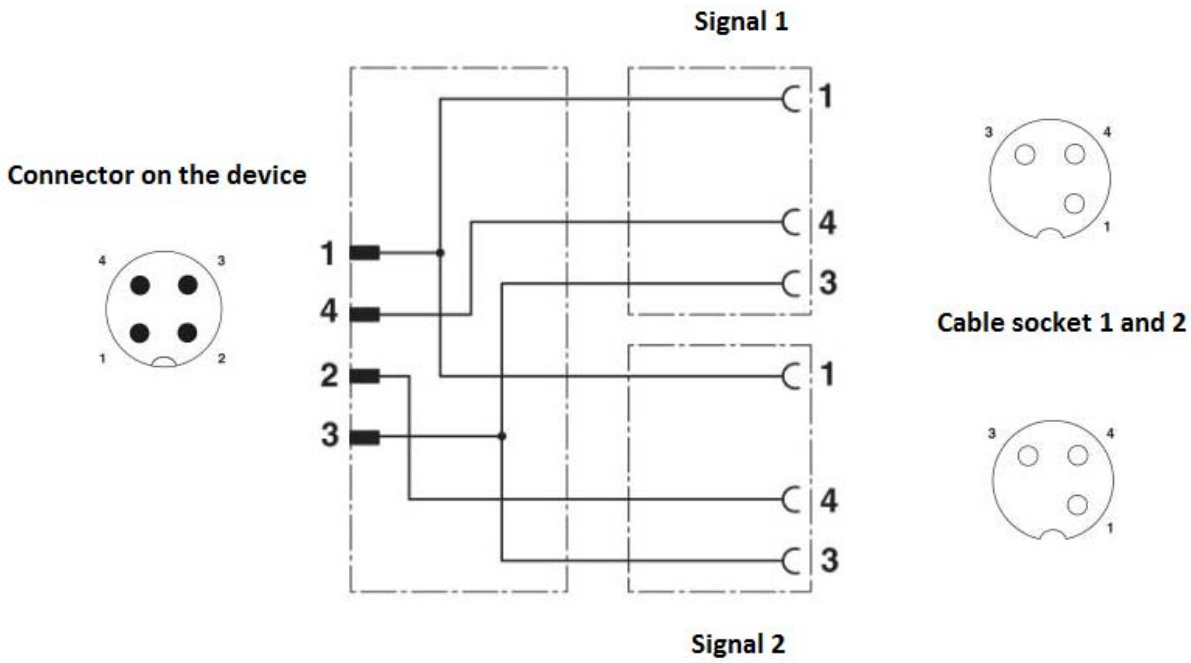



Figure 11 Circuit diagram for Sensor / actuator cable, SAC-3P-Y-2XFS SCO/.../...

## 4.2 IO-Link ports

The Axioline E-IO-Link master has 8 IO-Link ports. It enables the operation of up to eight IO-Link sensors/actuators and is also used to acquire digital signals.

### 4.2.1 Connecting IO Link ports and inputs

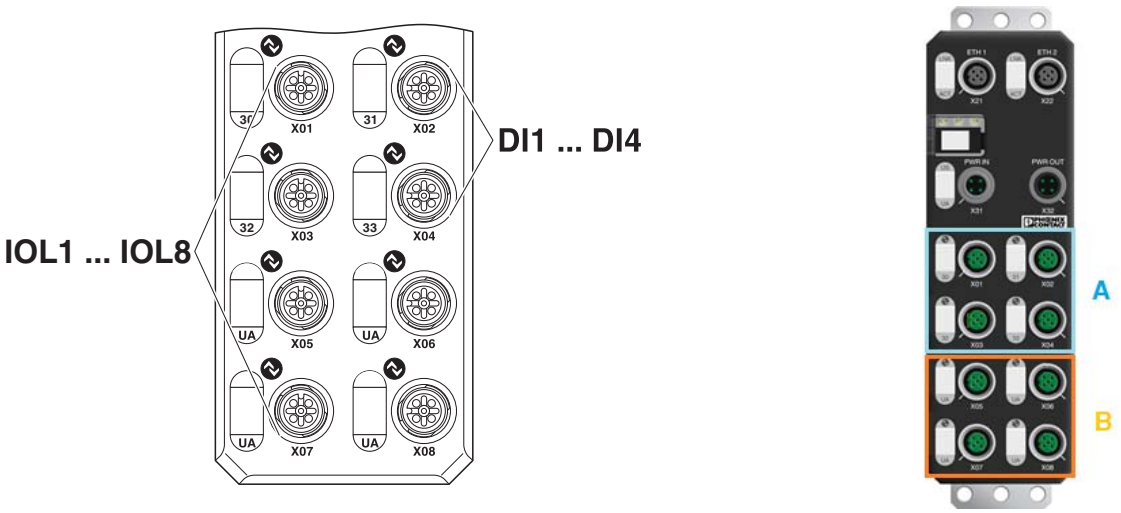



Bild 12 Connecting IO-Link ports and the digital inputs, A = A ports, B = B ports

| Description | Meaning |
|---|---|
| IO-Link 1 ... 8 (X01 ... X08) | IO-Link ports 1 ... 8<br>(A ports + B ports) |
| DI1 ... DI4 (X01 ... X04) | Inputs 1 ... 4 |

## 4.3 IO-Link A ports

### 4.3.1 Pin assignment of the IO-Link A ports

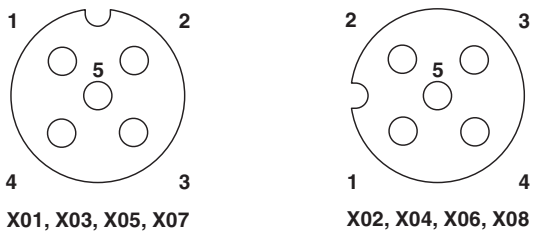



Bild 13 Pin assignment IO-Link A ports, A-coded

| Pin | IO-Link A ports (X01 ... X04) | Conductor colors |
|---|---|---|
| 1 | 24 V DC (L+) | Brown |
| 2 | DI | White |
| 3 | GND (L-) | Blue |
| 4 | C/Q, I/O link data transmission cable | Black |
| 5 | Not connected | - |

**Nominal current at L+/L-**

Pin 1 and pin 3 provide a nominal current of 200 mA, maximum. Higher currents are briefly permitted during startup. The current is then limited electronically.

**IO-Link A port**

The IO-Link A port is assigned an additional hardwired DI (digital input) at pin 2.

**Operating modes**

The C/Q cable (pin 4) can be configured independently of the other pins. The IO-Link ports can be operated in the following operating modes:

– DI (behaves like a digital input)
– DO (behaves like a digital output)
– DI with IO-Link
– IO-Link

**NOTE: Sensor damage**

When connecting an IO-type A sensor to an IO-Link B port that avoltage is applied to pin 2 and pin 5. Do not connect it to the sensor. Use a three-conductor cable between port and sensor,
e.g., cable type SAC-3P-M12MS/ .../...
Order No. 1696662

### 4.3.2 Cable for IO-Link A ports

To connect actuators and sensors to IO-Link A ports, you can order the following 4-pin cable types.

| Description | Cable length | Order No. | Pcs./Pkt. | Figure |
|---|---|---|---|---|
| Sensor / actuator cable, 4-positions, PE-X/PE-X halogen-free, black-gray RAL 7021, shielded, Connector straight M12, A-coded, on socket straight M12, A-coded, for outdoor applications, with high-grade steel knurl | 5 m | 1454192 | 1 |  |
| Sensor / actuator cable, 4-positions variable cable type, Connector straight M12, A-coded, on free cable end | 0.2 m ... 40 m | 1696947 | 1 |  |
| Sensor / actuator cable, 4-positions, PVC, black RAL 9005, Connector straight M12, A-coded, on socket angled M12, A-coded | 0.3 m | 1415617 | 1 |  |
| | 0.6 m | 1454817 | 1 | |
| | 1.5 m | 1415618 | 1 | |
| | 3 m | 1415619 | 1 | |
| Sensor / actuator cable, 4-positions, PVC, black RAL 9005, Connector straight M12, A-coded, on socket straight M12, A-coded | 0.3 m | 1415611 | 1 |  |
| | 0.6 m | 1415612 | 1 | |
| | 1.5 m | 1415613 | 1 | |
| | 3 m | 1415614 | 1 | |

## 4.4 IO-Link B ports

### 4.4.1 Pin assignment of the IO-Link B ports

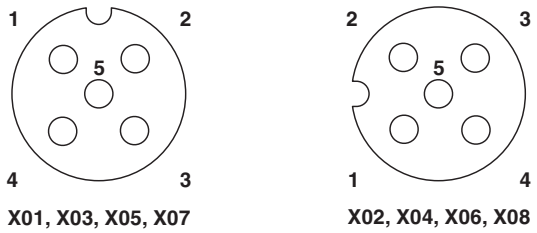



Bild 14 Pin assignment IO-Link B ports, A-coded

| Pin | IO-Link B ports (X05 ... X08) | Conductor colours |
|---|---|---|
| 1 | 24 V DC (L+) | Brown |
| 2 | 24 V DC ($U_A$) | White |
| 3 | GND (L-) | Blue |
| 4 | C/Q, I/O link data transmission cable | Black |
| 5 | GND ($U_A$) | Green/yellow |

**IO-Link B port**

The IO-Link B port has an additional supply voltage via pin 2 and pin 5. This port is suitable for connecting devices that have a higher current consumption. There are max. 2 A nominal current provided.

**Operating modes**

The C/Q cable (pin 4) can be configured independently of the other pins. The IO-Link ports can be operated in the following operating modes:

- DI (behaves like a digital input)
- DO (behaves like a digital output)
- DI with IO-Link
- IO-Link

**NOTE: Sensor damage**

When connecting an IO-type A sensor to an IO-Link B port that avoltage is applied to pin 2 and pin 5. Do not connect it to the sensor. Use a three-conductor cable between port and sensor,
e.g., cable type SAC-3P-M12MS/ .../...
Order No. 1696662

**Nominal current at L+/L-**

Pin 1 and pin 3 provide a nominal current of 200 mA, maximum. Higher currents are briefly permitted during startup. The current is then limited electronically.

### 4.4.2 Cable for IO-Link B ports

Use 5-pin cables to connect IO-Link B ports, as shown in the table “M12-SAC cable (5-positions with FE)” on page 12.

## 4.5 Connection of AXL E IO-Link devices to an AXL E IO-Link master

### 4.5.1 Connecting the Axioline E digital input device via an IO-Link A port

The Axioline E digital input device is connected to an IO-Link master via an IO-Link A port.

**Connection example**

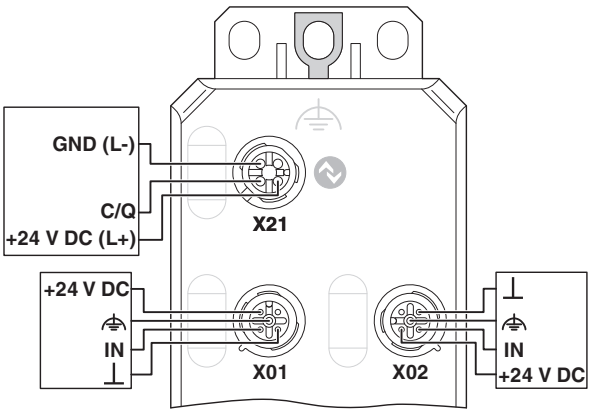



Figure 15 Example connection of connector X21 (IO-Link A port) and sockets X01 (input 1) and X02 (input 2)

**Pin assignment of the connector X21: IO-Link A port**

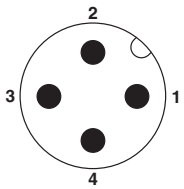



Figure 16 Pin assignment of connector X21

| Pin | Connector X21: IO-Link A port |
|---|---|
| 1 | +24 V DC (L+) |
| 2 | Not used |
| 3 | GND (L-) |
| 4 | C/Q, IO-Link data transmission channel |

**Cable for IO-Link A ports**

Use 4-pin cables to connect IO-Link A ports, as shown in the table “Cable for IO-Link A ports” on page 19.

To simplify your storage, you can also use 5-pin cables, which can be found in the table “M12-SAC cable (5-positions with FE)” on page 12.

### 4.5.2 Connecting the Axioline E digital output device via an IO-Link B port

The Axioline E digital output device is connected to an IO-Link master via an IO-Link B port.

**Connection example**

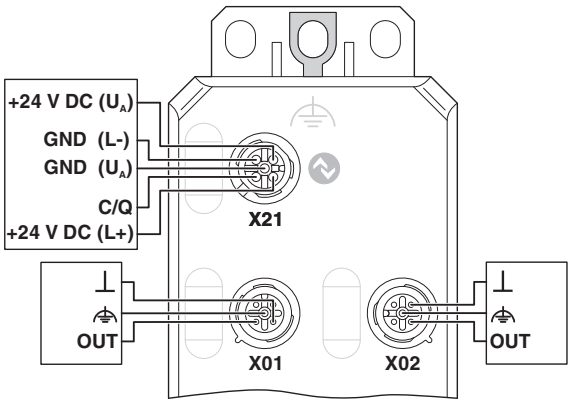



Bild 17 Example connection of connector X21 (IO-Link B port) and sockets X01 (output 1) and X02 (output 2)

**Pin assignment of the connector X21: IO-Link B port**

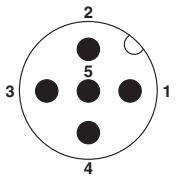



Bild 18 Pin assignment of connector X21

| Pin | Connector X21: IO-Link B port |
|---|---|
| 1 | +24 V DC (L+) |
| 2 | +24 V DC ($U_A$) |
| 3 | GND (L-) |
| 4 | C/Q, IO-Link data transmission channel |
| 5 | GND ($U_A$) |

**Cable for IO-Link B ports**

Use 5-pin cables to connect IO-Link B ports, as shown in the table “M12-SAC cable (5-positions with FE)” on page 12.

# 5 Accessories

The following table lists accessories for Axioline E devices.

| Accessories | Order No. | Pcs./Pkt. | Figure |
|---|---|---|---|
| An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors (Protection and sealing elements) | 1680539 | 5 |  |
| Snap-in markers, Sheet, white, unlabeled, can be labeled with: THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, mounting type: snapped into marker carrier, l lettering field size: 7 x 10 mm (Marking) | 0830765 | 10 |  |
| Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive | 1208432 | 1 |  |
| Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive | 1208445 | | |
| Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors | 1208429 | 1 |  |
| Mounting plate for Axioline E metal devices | 2701761 | 1 |  |

Cable configurator for single and Y cables

The cable configurator will help you find the right cable for your application. The cable configurator can be found at:

phoenixcontact.com/online/portal/gb?1dmy&urile=wcm%3apath%3a/gben/web/main/products/product_configurator/application_pages/assembled_cables_p_18_01/sac

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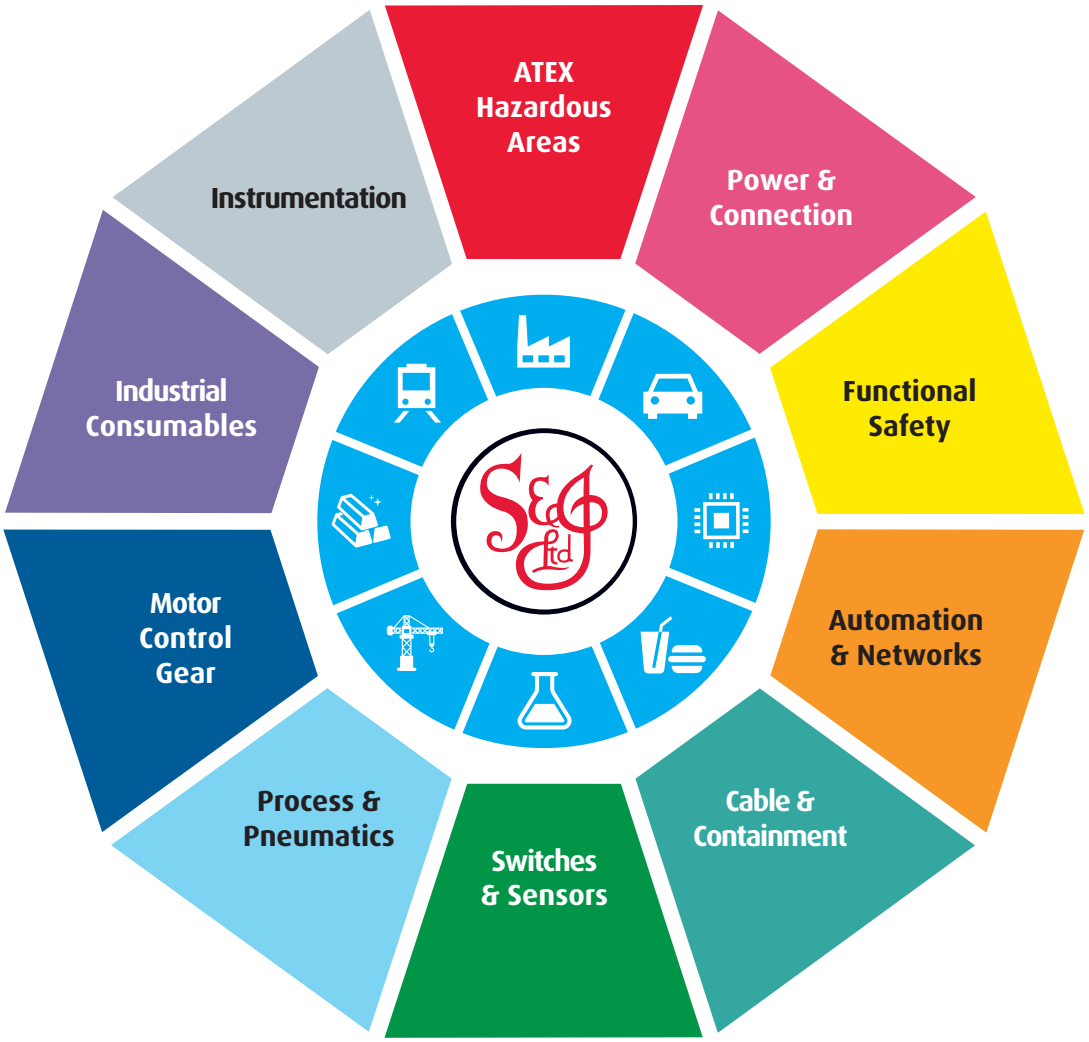


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