

AXL E IOL DI8 DO4/4 EF M12 6M - Digital module



1293246

<https://www.phoenixcontact.com/in/products/1293246>

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Axioline E, Digital I/O device, IO-Link ports Class A: 1, connection method: M12 connector, A-coded, connection technology: 3-conductor, Digital inputs: 8, 24 V DC, connection technology: 4-conductor, Digital outputs: 8, 24 V DC, 2 A, connection technology: 3-conductor, IO-Link, degree of protection: IP65/IP67/IP69

Product description

You can connect this Axioline E device to an IO-Link master via an IO-Link A port. You can use this device to acquire and output digital signals via IO-Link. Use within different networks is possible via the IO-Link master.

Your advantages

- Connection to an IO-Link master with M12 connector (A-coded, 4-pos.)
- Type A port
- IO-Link specification V1.1.3
- Connection of up to 8 inputs with M12 connectors (A-coded, 5-pos.)
- Connection up to 8 outputs with M12 connectors (A-coded, 5-pos.)
- Connection of actuator supply U_{A1} and U_{A2} with M12 connector (L-coded, 4-pos.)
- Diagnostic and status indicators
- Single-channel diagnostics
- Short-circuit and overload protection of the sensor supply
- Device rating plate stored
- IP65/IP67/IP69 degree of protection

Commercial data

Item number	1293246
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI
Product key	DRI7NF
GTIN	4063151525699
Weight per piece (including packing)	534 g
Weight per piece (excluding packing)	509 g
Customs tariff number	85176200
Country of origin	DE

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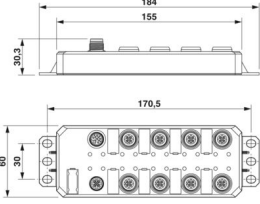


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Technical data

Dimensions

Dimensional drawing	
Width	60 mm
Height	184 mm
Depth	30.3 mm

Notes

Note on application

Note on application	Only for industrial use
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Material specifications

Housing material	Die-cast zinc
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Input data

Digital:

Input name	Digital inputs
Description of the input	EN 61131-2 types 1 and 3
Number of inputs	8
Cable length	max. 30 m (to the sensor)
Connection method	M12 connector, A-coded
Note on the connection method	Push-pull fast connection according to IEC 61076-2-010 or screw connection according to IEC 61076-2-101
Connection technology	4-conductor
Input voltage range "0" signal	-3 V ... 5 V DC
Input voltage range "1" signal	11 V DC ... 30 V DC
Nominal input voltage U_{IN}	24 V DC
Nominal input current at U_{IN}	typ. 2.5 mA
Input filter time	1 ms
Protective circuit	Reverse polarity protection; yes
	Short-circuit protection; yes
	Overload protection; yes

IO-Link

Number of ports	1
Connection method	M12 connector, A-coded

AXL E IOL DI8 DO4/4 EF M12 6M - Digital module



1293246

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Note on the connection method	Push-pull fast connection according to IEC 61076-2-010 or screw connection according to IEC 61076-2-101
Connection technology	3-conductor
Port type	Class A
Specification	V1.1.3
Reverse polarity protection	yes
Transmission speed	230.4 kbps (COM3)
Cycle Time	0.6 ms
Amount of process data	3 Byte (Input data) 1 Byte (Output data)

Output data

Digital:

Output name	Digital outputs
Connection method	M12 connector, A-coded
Note on the connection method	Push-pull fast connection according to IEC 61076-2-010 or screw connection according to IEC 61076-2-101
Connection technology	3-conductor
Number of outputs	8
Protective circuit	Overload protection; yes Short-circuit protection; yes
Output voltage	24 V DC
Output current	max. 2 A (per output)
Nominal output voltage	24 V DC (from U_{A1} , U_{A2})
Output voltage range	min. $U_{A1} - 1 \text{ V}$... max. U_{A1} min. $U_{A2} - 1 \text{ V}$... max. U_{A2}
Load min.	10 k Ω
Output voltage when switched off	max. 1 V
Output current when switched off	max. 300 μA
Nominal load, inductive	48 VA (1.2 H, 12 Ω , at nominal voltage, utilization category DC-13)
Nominal load, ohmic	48 W (12 Ω , at nominal load)
Switching frequency	max. 1 per second (with inductive load)
Reverse voltage resistance to short pulses	no
Behavior with overload	Shutdown with automatic restart
Behavior with inductive overload	Output can be destroyed
Signal delay	max. 100 μs (when switched on) max. 100 μs (when switched off, with at least 50 mA load current)
Overcurrent shut-down	as of 2.2 A
Output current with ground connection interrupt when switched off	< 1 mA

Product properties

Product type	I/O component
Product family	Axioline E

AXL E IOL DI8 DO4/4 EF M12 6M - Digital module



1293246

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Type	Stand-Alone
Special properties	IO-Link

Insulation characteristics

Pollution degree	2 (IEC 60664-1, EN 60664-1)
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Electrical properties

Supply: IO-Link

Designation	IO-Link port supply (L+)
Nominal voltage for I/O supply	24 V DC (Provided via the IO-Link interface of the IO-Link master.)
Supply voltage range	18 V DC ... 30 V DC (including all tolerances, including ripple)
Nominal current per device	typ. 30 mA
Current consumption	max. 800 mA (Device dependent; observe the current of the IO-Link master that is made available via L+.)
Protective circuit	Reverse polarity protection; yes

Supply: Sensors

Designation	Supply of the sensors (from L+)
Current consumption	max. 800 mA (per port)
	max. 800 mA (Device dependent; observe the current of the IO-Link master that is made available via L+.)

Supply: Actuators

Designation	Supply of actuators (U_{A1} , U_{A2})
Connection method	M12 connector, L-coded
Note on the connection method	Screw connection in accordance with IEC 61076-2-111
Number of positions	4
Supply voltage	24 V DC (Nominal voltage)
Supply voltage range	18 V DC ... 30 V DC (including all tolerances, including ripple)
Current consumption	max. 8 A (Group U_{A1})
	max. 8 A (Group U_{A2})
	typ. 35 mA (Group U_{A1})
	typ. 35 mA (Group U_{A2})
Protection	max. 8 A (per supply U_{A1} and U_{A2})

Electrical isolation/isolation of the voltage ranges

Test voltage: 24 V supply L+ (IO-Link)/functional ground	800 V DC, 1 min
Test voltage: 24 V supply U_{A1} /24 V supply L+ (IO-Link)	800 V DC, 1 min
Test voltage: 24 V supply U_{A2} /24 V supply L+ (IO-Link)	800 V DC, 1 min
Test voltage: 24 V supply U_{A1} /functional ground	800 V DC, 1 min
Test voltage: 24 V supply U_{A2} /functional ground	800 V DC, 1 min
Test voltage: 24 V supply U_{A1} /24 V supply U_{A2}	800 V DC, 1 min

Connection data

Connection method	M12 connector
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Tightening torque	0.4 Nm
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 70 °C
	-40 °C ... 70 °C (Extended, see section "Use under extreme ambient conditions" in the data sheet)
Degree of protection	IP65/IP67/IP69
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 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 (operation)	5 % ... 95 %
Permissible humidity (storage/transport)	5 % ... 95 %

Standards and regulations

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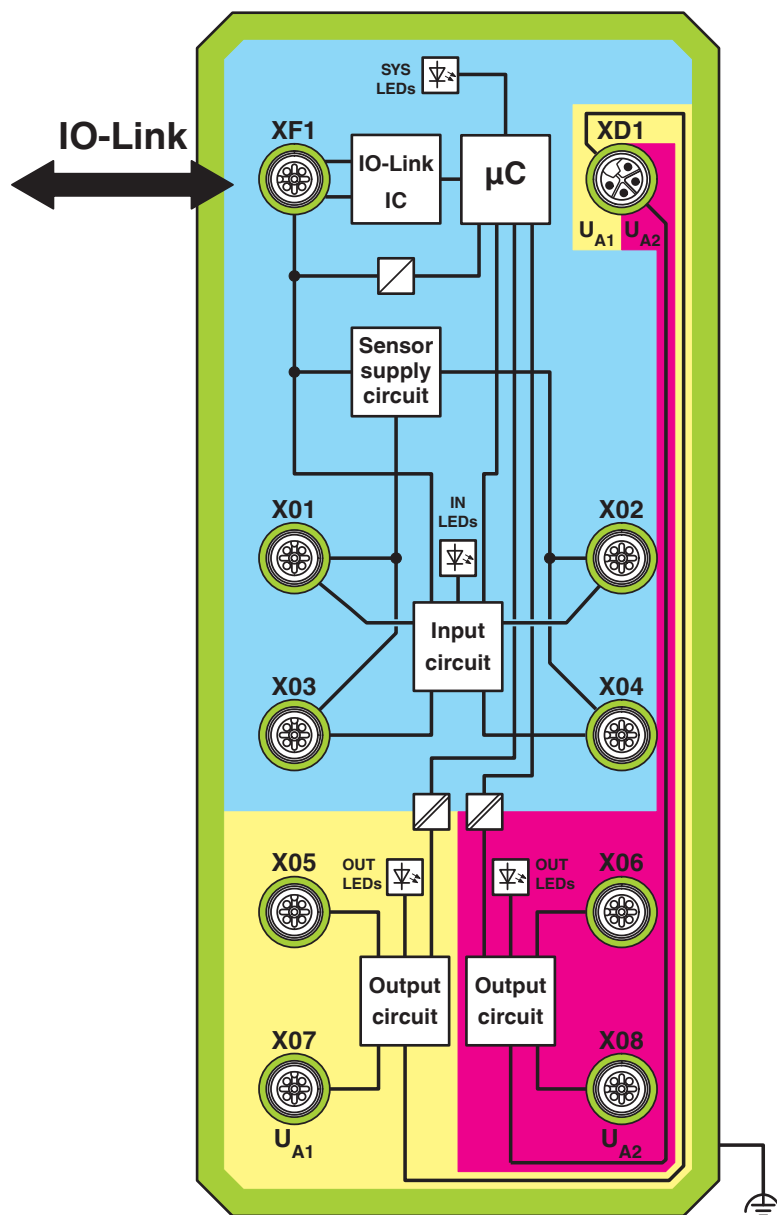
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Drawings

Block diagram



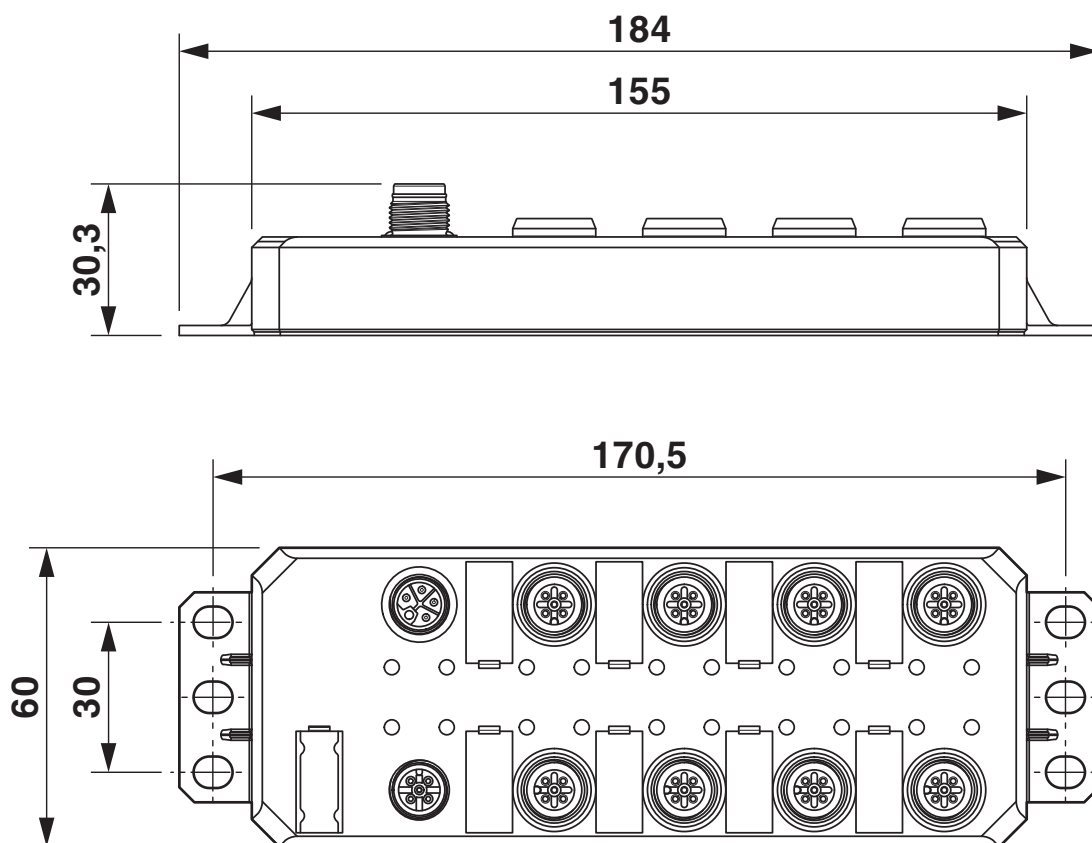
Basic circuit diagram

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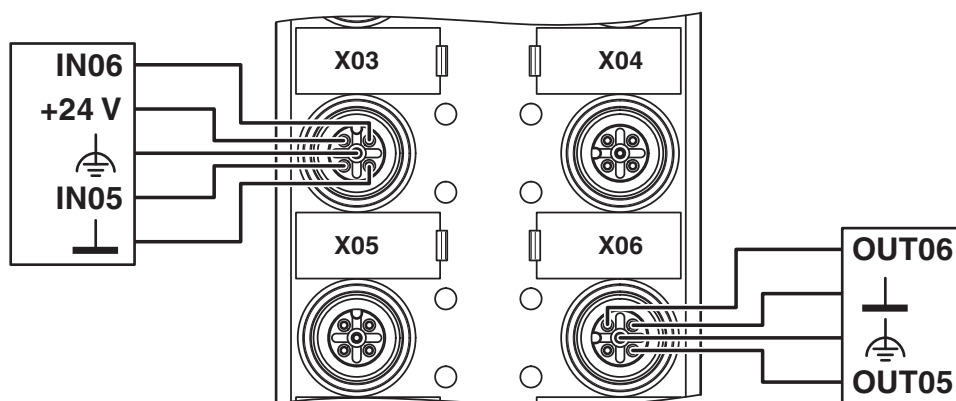
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Dimensional drawing



Dimensions (in mm)

Connection diagram



Connection example

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Approvals

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UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27242604
ECLASS-12.0	27242604
ECLASS-13.0	27242604

ETIM

ETIM 9.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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Accessories

UCT-EM (20X9) - Snap-in markers

0801471

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Snap-in markers, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: latching, Number of individual labels: 24, text field height: 9 mm, text field width: 20 mm

US-EMLP-HA (20X9) - Plastic label

0830989

<https://www.phoenixcontact.com/in/products/0830989>



Plastic label, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, Number of individual labels: 70, text field height: 9 mm, text field width: 20 mm

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US-EML (20X8) - Label

0800458

<https://www.phoenixcontact.com/in/products/0800458>



Label, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, Number of individual labels: 64, text field height: 8 mm, text field width: 20 mm

PROT-M12 - Screw plug

1680539

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

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PROT-M12 SH - Screw plug

1503302

<https://www.phoenixcontact.com/in/products/1503302>



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

SAC-3P-Y/2XM 8FS SCO - Y distributor

1523984

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Y distributor, 4-position, Plug straight M12 SPEEDCON, coding: A, on Socket straight M8, coding: A and Socket straight M8, coding: A

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SAC-3P-Y/2XFS PE SCO - Y distributor

1523971

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Y distributor, 4-position, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A and Socket straight M12 SPEEDCON, coding: A

SAC-3P-Y/2XFS B PE SCO - Y distributor

1523968

<https://www.phoenixcontact.com/in/products/1523968>



Y distributor, 4-position, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, PIN 2+4 bridged and Socket straight M12 SPEEDCON, coding: A, PIN 2+4 bridged, Thread M12 socket not rotatable

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SAC-5P-P12MS/ 1,5-PUR/P12FR - Sensor/actuator cable

1224223

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 Push Pull, coding: A, on Socket angled M12 Push Pull, coding: A, cable length: 1.5 m

SAC-5P-P12MS/ 1,5-PUR/P12FS - Sensor/actuator cable

1224208

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 Push Pull, coding: A, on Socket straight M12 Push Pull, coding: A, cable length: 1.5 m

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SAC-5P-P12MR/ 1,5-PUR/P12FS - Sensor/actuator cable

1224229

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug angled M12 Push Pull, coding: A, on Socket straight M12 Push Pull, coding: A, cable length: 1.5 m

SAC-5P-P12MS/ 1,5-PUR - Sensor/actuator cable

1393925

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 Push Pull, coding: A, on free cable end, cable length: 1.5 m

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SAC-5P-P12MR/ 1,5-PUR - Sensor/actuator cable

1395742

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug angled M12 Push Pull, coding: A, on free cable end, cable length: 1.5 m

SAC-5P-M12MS/1,5-PUR/M12FS - Sensor/actuator cable

1681606

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 1.5 m

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SAC-5P-M12MS/1,5-PUR - Sensor/actuator cable

1669767

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on free cable end, cable length: 1.5 m

SAC-5P-M12MS/1,5-PUR/M12FR - Sensor/actuator cable

1681648

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket angled M12, coding: A, cable length: 1.5 m

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SAC-5P-M12MR/1,5-PUR - Sensor/actuator cable

1669796

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug angled M12, coding: A, on free cable end, cable length: 1.5 m

SAC-4P- 1,5-PUR/M12FSL - Power cable

1425073

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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: L, cable length: 1.5 m, for direct current up to 16 A/63 V

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SAC-4P- 1,5-105/M12FSL - Power cable

1425033

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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: L, cable length: 1.5 m, For direct current up to 12 A/63 V

SAC-4P- 1,5-PUR/M12FRL - Power cable

1425077

<https://www.phoenixcontact.com/in/products/1425077>



Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: L, cable length: 1.5 m, for direct current up to 16 A/63 V

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SAC-4P- 1,5-105/M12FRL - Power cable

1425037

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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: L, cable length: 1.5 m, For direct current up to 12 A/63 V

SAC-4P-M12MSL/1,5-PUR/FSL - Power cable

1425083

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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: L, on Socket straight M12, coding: L, cable length: 1.5 m, for direct current up to 16 A/63 V

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SAC-4P-M12MSL/1,5-105/FSL - Power cable

1425043

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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: L, on Socket straight M12, coding: L, cable length: 1.5 m, For direct current up to 12 A/63 V

SACC-P12MS-4PL-CM M - Connector

1438146

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Connector, Universal, 4-position, unshielded, Plug straight M12 Push-Pull, coding: A, Push-lock spring connection, knurl material: Plastic, external cable diameter 4 mm ... 8 mm

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SACC-P12MS-5PL-CM M - Connector

1438156

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Connector, Universal, 5-position, unshielded, Plug straight M12 Push-Pull, coding: A, Push-lock spring connection, knurl material: Plastic, external cable diameter 4 mm ... 8 mm

SACC-P12MR-4PL-CM M - Connector

1438148

<https://www.phoenixcontact.com/in/products/1438148>



Connector, Universal, 4-position, unshielded, Plug angled M12 Push-Pull, coding: A, Push-lock spring connection, knurl material: Plastic, external cable diameter 4 mm ... 8 mm

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SACC-P12MR-5PL-CM M - Connector

1438158

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Connector, Universal, 5-position, unshielded, Plug angled M12 Push-Pull, coding: A, Push-lock spring connection, knurl material: Plastic, external cable diameter 4 mm ... 8 mm



SACC-M12MS-5PL M - Connector

1424649

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Connector, Universal, 5-position, unshielded, Plug straight M12, coding: A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm



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SACC-M12MS-4PL M - Connector

1424657

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Connector, Universal, 4-position, unshielded, Plug straight M12, coding: A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

SACC-P12FS-4PL-CM M - Connector

1438151

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Connector, Universal, 4-position, unshielded, Socket straight M12 Push-Pull, coding: A, Push-lock spring connection, knurl material: Plastic, external cable diameter 4 mm ... 8 mm

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SACC-P12FR-4PL-CM M - Connector

1438155

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Connector, Universal, 4-position, unshielded, Socket angled M12 Push-Pull, coding: A, Push-lock spring connection, knurl material: Plastic, external cable diameter 4 mm ... 8 mm

SACC-P12FR-5PL-CM M - Connector

1438162

<https://www.phoenixcontact.com/in/products/1438162>



Connector, Universal, 5-position, unshielded, Socket angled M12 Push-Pull, coding: A, Push-lock spring connection, knurl material: Plastic, external cable diameter 4 mm ... 8 mm

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SACC-P12FS-5PL-CM M - Connector

1438159

<https://www.phoenixcontact.com/in/products/1438159>



Connector, Universal, 5-position, unshielded, Socket straight M12 Push-Pull, coding: A, Push-lock spring connection, knurl material: Plastic, external cable diameter 4 mm ... 8 mm

SACC-M12FS-5PL M - Connector

1424652

<https://www.phoenixcontact.com/in/products/1424652>



Connector, Universal, 5-position, unshielded, Socket straight M12, coding: A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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SACC-M12FS-4PL M - Connector

1424655

<https://www.phoenixcontact.com/in/products/1424655>



Connector, Universal, 4-position, unshielded, Socket straight M12, coding: A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

SAC BIT M12-D15 - Tool

1208432

<https://www.phoenixcontact.com/in/products/1208432>



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

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SACC BIT M12-D20 - Tool

1208445

<https://www.phoenixcontact.com/in/products/1208445>

Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive



TSD 04 SAC - Torque screwdriver

1208429

<https://www.phoenixcontact.com/in/products/1208429>

Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors



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