

AXL E PN DI8 DO8 EF M12 6M-L - Digital module



1300921

<https://www.phoenixcontact.com/in/products/1300921>

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

Product description

The Axioline E device is designed for use within a PROFINET network. It is used to acquire and output digital signals. The device is suitable for use without a control cabinet in harsh industrial ambient conditions.

Your advantages

- Connection with M12 connectors with push-pull fast connection or screw connection
- Mapping in accordance with PROFINET specification V2.4 as PROFINET device (Conformance Class C (IRT switch))
- PROFINET Fast Startup function supported
- PROFINET system redundancy S2 supported
- PROFINET supported with min. cycle time of 1 ms
- 2 Ethernet ports (with integrated switch)
- Transmission speed of 100 Mbps
- Short-circuit and overload protection
- IP65/IP67/IP69 degree of protection

Commercial data

Item number	1300921
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI
Product key	DRI7NA
GTIN	4063151545635
Weight per piece (including packing)	652 g
Weight per piece (excluding packing)	617 g
Customs tariff number	85176200
Country of origin	DE

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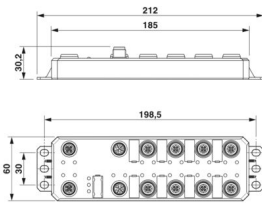


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Technical data

Dimensions

Dimensional drawing	
Width	60 mm
Height	212 mm
Depth	30.2 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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Interfaces

PROFINET

Number of interfaces	2
Connection method	M12 connector, D-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
Number of positions	4
Transmission speed	100 Mbps (with auto negotiation)
System-specific protocols	PROFINET protocols LLDP PROFINET protocols MRP client PROFINET protocols DCP PROFINET protocols DCE/RPC
Protocols supported	HTTP SNMP v1

System properties

PROFINET

Device function	PROFINET device
Update rate	1 ms
Conformance Class	C (IRT switch)
Supported functions	FSU < 600 ms I&M functions

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Device ID	0181 _{hex}
Vendor ID	00B0 _{hex}

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	0 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
Sensor current per channel	max. 2 A (from U_S)
Total sensor current	max. 2 A (per device)
Input filter time	3000 μ s
	1000 μ s (Default)
	< 100 μ s (Filter disabled)
Protective circuit	Reverse polarity protection; yes
	Short-circuit protection; yes
	Overload protection; yes

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
Limitation of the voltage induced on circuit interruption	-2 V ... -1 V
Output current	2 A (per output)
Nominal output voltage	24 V DC (from U_A)
Output voltage range	min. $U_A - 1$ V ... max. U_A
Load min.	10 k Ω
Output voltage when switched off	max. 1 V
Output current when switched off	max. 300 μ A

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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 voltage)
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 μ s (when switched on)
	max. 100 μ s (when switched off, with at least 50 mA load current)
Overcurrent shut-down	min. 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
Type	Stand-Alone

Insulation characteristics

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

Supply: Sensors

Designation	Supply of the logic and sensors (U_S)
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
Supply voltage range	18 V DC ... 30 V DC (including all tolerances, including ripple)
Current consumption	typ. 65 mA
	max. 16 A
Protection	max. 16 A

Supply: Actuators

Designation	Supply of actuators (U_A)
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	typ. 50 mA
	max. 16 A
Protection	max. 16 A

Electrical isolation/isolation of the voltage ranges

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Test voltage: 24 V supply (logic and sensor supply U_S) / functional ground	800 V DC, 1 min
Test voltage: 24 V supply (actuator supply U_A) / 24 V supply (logic and sensor supply U_S)	800 V DC, 1 min
Test voltage: 24 V supply (actuator supply U_A) / functional ground	800 V DC, 1 min

Connection data

Connection method	M12 connector
Tightening torque	0.4 Nm

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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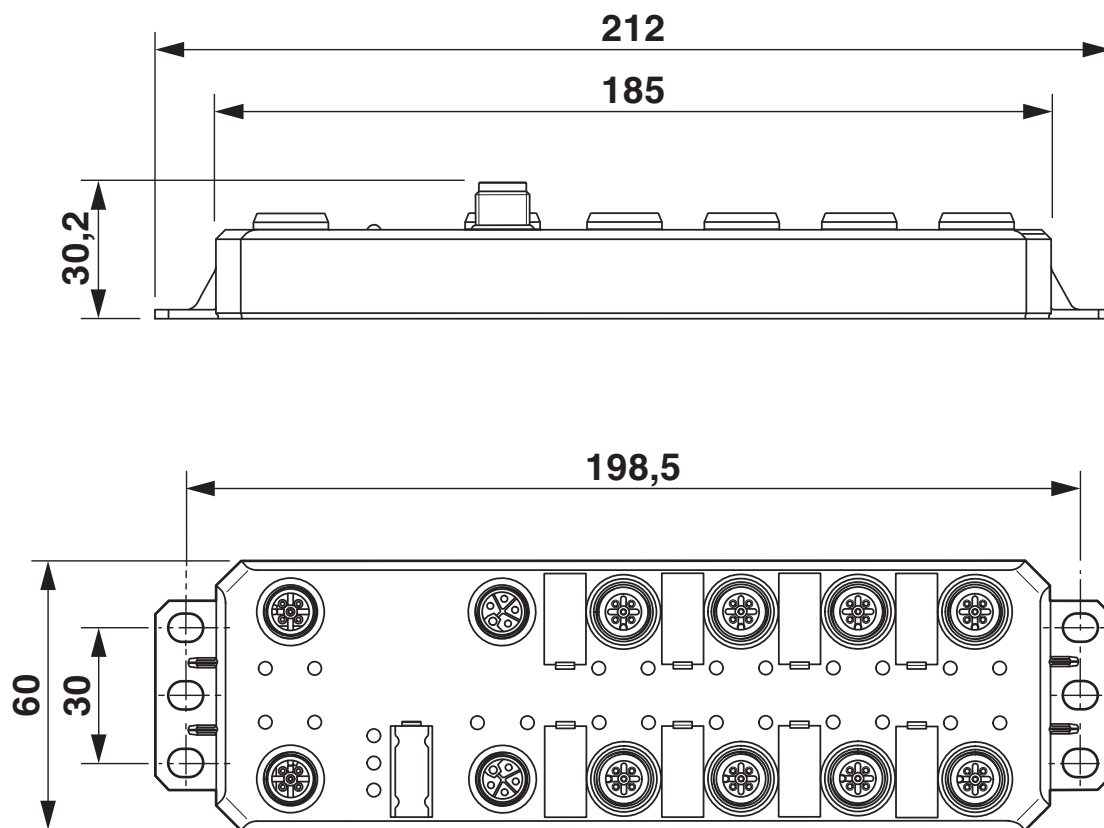


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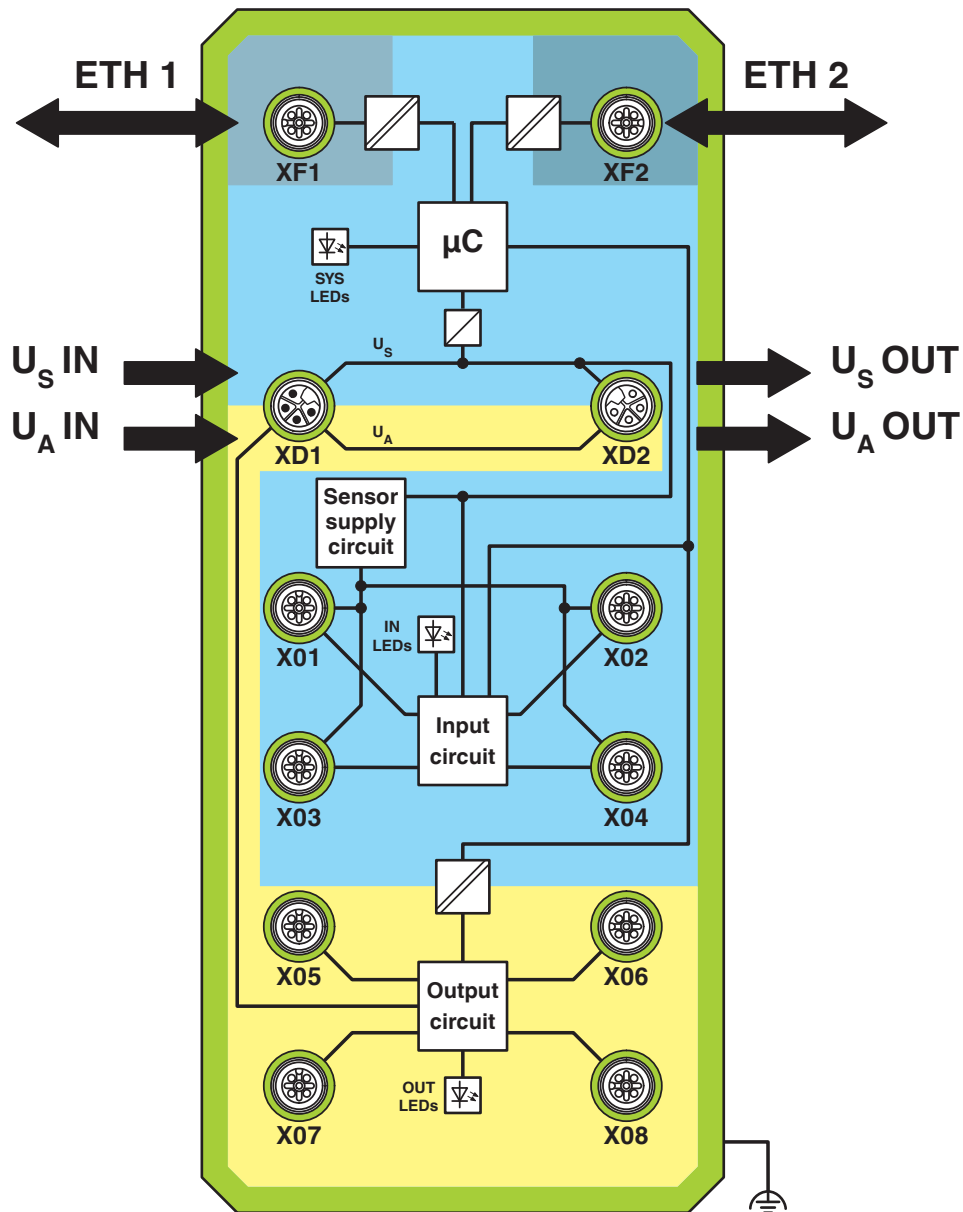
Drawings

Dimensional drawing



Dimensions (in mm)

Block diagram



Basic circuit diagram

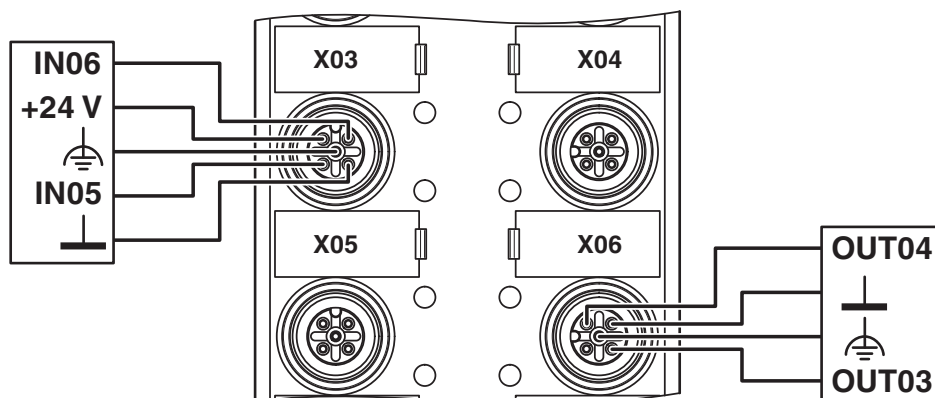
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Connection diagram



Connection example

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Approvals

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UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705

PROFINET

Approval ID: Z13744

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

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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-5PH-ML-FL/2XFL F VP SH - H distributor

1080248

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H distributor, 5-position, shielded, Plug straight M12, coding: L, on Socket straight M12, coding: L and Socket straight M12, coding: L, for direct current up to 16 A/63 V, Parallel distributor



SAC-5PY-FL/ML-FL F VP SH - Y distributor

1080249

<https://www.phoenixcontact.com/in/products/1080249>

Y distributor, 5-position, shielded, Plug straight M12, coding: L, on Socket straight M12, coding: L and Socket straight M12, coding: L, for direct current up to 16 A/63 V, Parallel distributor



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SACC-M12FSL-4FEPL-CL M - Power connector

1646350

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Power connector, Power, 5-position, unshielded, Socket straight M12, coding: L, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 8 mm ... 13 mm, Contact 5 leading

SACC-M12FSL-4FEPL-CL - Power connector

1151390

<https://www.phoenixcontact.com/in/products/1151390>



Power connector, Power, 5-position, unshielded, Socket straight M12, coding: L, Push-lock spring connection, knurl material: Brass, nickel-plated, external cable diameter 8 mm ... 13 mm, Contact 5 leading

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SACC-M12FSL-4FEPL-CL SH - Power connector

1080233

<https://www.phoenixcontact.com/in/products/1080233>



Power connector, Power, 5-position, shielded, Socket straight M12, coding: L, Push-lock spring connection, knurl material: Brass, nickel-plated, external cable diameter 8 mm ... 13 mm, Contact 5 leading

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

<https://www.phoenixcontact.com/in/products/1425033>



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

<https://www.phoenixcontact.com/in/products/1425037>



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

<https://www.phoenixcontact.com/in/products/1425083>



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

NBC-P12MSD/ 5,0-93E - Network cable

1476013

<https://www.phoenixcontact.com/in/products/1476013>



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12 Push Pull, coding: D / IP67, on free cable end, cable length: 5 m

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NBC-P12MSD/ 5,0-93E/R4AC - Network cable

1476025

<https://www.phoenixcontact.com/in/products/1476025>



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12 Push Pull, coding: D / IP67, on Plug straight RJ45 / IP20, cable length: 5 m

NBC-P12MSD/ 5,0-93E/P12MSD - Network cable

1476051

<https://www.phoenixcontact.com/in/products/1476051>



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12 Push Pull, coding: D / IP67, on Plug straight M12 Push Pull, coding: D / IP67, cable length: 5 m

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NBC-M12MSD/ 5,0-93B - Network cable

1407497

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Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, PVC/PVC, green RAL 6018, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on free cable end, cable length: 5 m

NBC-M12MSD/ 5,0-93B/R4AC - Network cable

1407501

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Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, PVC/PVC, green RAL 6018, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on Plug straight RJ45 / IP20, cable length: 5 m

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NBC-M12MSD/ 5,0-93B/M12MSD - Network cable

1407526

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Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, PVC/PVC, green RAL 6018, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on Plug straight M12 / IP67, cable length: 5 m

NBC-M12MRD/ 5,0-93C/M12MRD - Network cable

1416749

<https://www.phoenixcontact.com/in/products/1416749>



Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, PUR/FRNC halogen-free, green RAL 6018, shielded (Advanced Shielding Technology), Plug angled M12, coding: D / IP67, on Plug angled M12, coding: D / IP67, cable length: 5 m

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SACC-P12MSD-4PL-CM SH PN - Connector

1438182

<https://www.phoenixcontact.com/in/products/1438182>



Connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug straight M12 Push-Pull, coding: D, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

SACC-P12MRD-4PL-CM SH PN - Connector

1438184

<https://www.phoenixcontact.com/in/products/1438184>



Connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12 Push-Pull, coding: D, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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SACC-M12MRD-4PL SH PN - Connector

1424684

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Connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12, coding: D, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

SACC-M12MSD-4PL SH PN - Connector

1424682

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Connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug straight M12, coding: D, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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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

<https://www.phoenixcontact.com/in/products/1224229>



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

<https://www.phoenixcontact.com/in/products/1393925>



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

<https://www.phoenixcontact.com/in/products/1395742>



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

<https://www.phoenixcontact.com/in/products/1681606>



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

<https://www.phoenixcontact.com/in/products/1669796>



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

SACC-P12MS-4PL-CM M - Connector

1438146

<https://www.phoenixcontact.com/in/products/1438146>



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

AXL E PN DI8 DO8 EF M12 6M-L - Digital module



1300921

<https://www.phoenixcontact.com/in/products/1300921>

SACC-P12MS-5PL-CM M - Connector

1438156

<https://www.phoenixcontact.com/in/products/1438156>



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

AXL E PN DI8 DO8 EF M12 6M-L - Digital module



1300921

<https://www.phoenixcontact.com/in/products/1300921>

SACC-P12MR-5PL-CM M - Connector

1438158

<https://www.phoenixcontact.com/in/products/1438158>

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

<https://www.phoenixcontact.com/in/products/1424649>

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



AXL E PN DI8 DO8 EF M12 6M-L - Digital module



1300921

<https://www.phoenixcontact.com/in/products/1300921>

SACC-M12MS-4PL M - Connector

1424657

<https://www.phoenixcontact.com/in/products/1424657>



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

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

AXL E PN DI8 DO8 EF M12 6M-L - Digital module



1300921

<https://www.phoenixcontact.com/in/products/1300921>

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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