

NEARFI D ETH R - Inductive coupler



1234234

<https://www.phoenixcontact.com/us/products/1234234>

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NearFi, remote coupler for contactless real-time Ethernet transmission in the centimeter range, 100 Mbps, full duplex, M12 connection technology, IP65 type of protection. A base coupler is required for operation.

Product description

With the robust NEARFI-D... NearFi couplers, you can transmit real-time Ethernet data (100 Mbps, full duplex) without contact across a distance in the centimeter range. Furthermore, the specially developed NearFi technology enables latency-free and protocol-independent Ethernet communication. At the same time, the limited wireless range of just a few centimeters also ensures security and permits parallel applications in the tightest of spaces. You can therefore replace wear-sensitive and maintenance-intensive connections and reduce downtimes in your systems.

Your advantages

- Contactless - and therefore no wear and no maintenance
- Protocol-independent, latency-free Ethernet real-time communication with 100 Mbps (full duplex)
- All-round visible diagnostics with light ring on the housing
- High degree of mounting freedom with flexible proximity options
- Plug and Play - as easy as a plug
- Degree of protection IP65

Commercial data

Item number	1234234
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN26
Product key	DNC693
GTIN	4063151338107
Weight per piece (including packing)	523 g
Weight per piece (excluding packing)	480 g
Customs tariff number	85176200
Country of origin	DE

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Technical data

Notes

Note on application

Note on application	Only for industrial use
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Product properties

Product type	Inductive coupler
Application	Ethernet
MTTF	239 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	155 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	81 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Data management status

Article revision	03
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Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	4.68 W
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Supply

Supply voltage range	19 V DC ... 30 V DC
Typical current consumption	≤ 195 mA (at 24 V DC, at 25 °C)
Protective circuit	Transient protection, polarity protection

Connection data

Supply

Connection method	M12 male, A-coded
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Interfaces

Data: Ethernet interface, 100Base-T(X) in accordance with IEEE 802.3

Transmission speed	100 Mbps
Connection method	M12 female, D-coded
Note on the connection method	Auto negotiation and autocrossing, fast startup (FSU, <500 ms)
No. of channels	1
Transmission length	100 m (shielded twisted pair)
Transmission medium	Copper
Protocols supported	Protocol transparent: PROFINET, PROFINET IRT, PROFIsafe, EtherCAT®, Modbus/TCP, Powerlink, TSN, etc.

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Inductive	
Switch-on time	< 450 ms (ETH Full Duplex operating mode)
Range	min. 0 mm
	typ. 20 mm (at 65°C)
	typ. 40 mm (at 25 °C)
Wireless modules that can be connected	1 (Base coupler)

Wireless	
Wireless modules that can be connected	1 (Base coupler)
Frequency	60 GHz
Frequency range	57 GHz ... 64 GHz (Data transmission)
Transmission power	< 10 mW (EIRP)

Dimensions

Dimensional drawing	
Width	80 mm
Height	86 mm
Depth	39 mm

Material specifications

Color (Housing)	black (RAL 9005)
Material (Enclosure)	PBT
	Die-cast zinc
Flammability rating according to UL 94	V0

Cable/line

Other resistance	Resistant to welding splashes
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Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP65 (Manufacturer's declaration)
Impact strength	IK06
Ambient temperature (operation)	-20 °C ... 65 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	2000 m
Permissible humidity (operation)	10 % ... 95 %
Permissible humidity (storage/transport)	10 % ... 95 %

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Air pressure (operation)	80 kPa ... 108 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)

Approvals

CE

Certificate	CE-compliant
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Wireless approval, Europe

Note	RED 2014/53/EU
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UL, USA

Identification	UL 61010 Listed
	UL 61010-2-201, 2nd Edition
	UL 61010-1, 3rd Edition
Certificate	E238705

UL, Canada

Identification	cUL 61010 Listed
	CSA C22.2 NO. 61010-2-201:18, 2nd Edition
	CSA C22.2 NO. 61010-1, 3rd Edition
Certificate	E238705

Wireless approval USA, FCC

Certificate	YG3DETHR
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Wireless approval Canada, IC

Certificate	4720B-DETHR
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Wireless approval Japan, MIC

Identification	006-001057
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KC approval for South Korea

Certificate	R-R-PCK-1234232
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CC-Link IE TSN

Identification	Class A
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EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conducted noise emission	EN 55032 Class A, industrial applications

Electrostatic discharge

Standards/regulations	EN 61000-4-2
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Electrostatic discharge

Contact discharge	± 4 kV (Test Level 2)
Discharge in air	± 8 kV (Test Level 3)
Comments	Criterion B

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Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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Electromagnetic HF field

Frequency range	80 MHz ... 1 GHz (Test Level 3)
Field intensity	10 V/m
Comments	Criterion A

Fast transients (burst)

Standards/regulations	EN 61000-4-4
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Fast transients (burst)

Input	± 2 kV (Test Level 3 - asymmetrical)
Output	± 2 kV (Test Level 3 - asymmetrical)
Signal	± 2 kV (Test Level 3 - asymmetrical)
Comments	Criterion B

Surge current load (surge)

Standards/regulations	EN 61000-4-5
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Surge current load (surge)

Input	± 0.5 kV (Test Level 1 - symmetrical)
	± 1 kV (Test Level 2 - asymmetrical)
Output	± 1 kV (Test Level 2 - asymmetrical)
Signal	± 1 kV (Test Level 2 - asymmetrical)
Comments	Criterion B

Conducted interference

Standards/regulations	EN 61000-4-6
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Conducted interference

Frequency range	0.15 MHz ... 80 MHz (Test Level 3 - asymmetrical)
Comments	Criterion A
Voltage	10 V (80% amplitude modulation with 1 kHz)

Emitted interference

Standards/regulations	EN 55016-2-3
Comments	Class A, industrial applications

Criteria

Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

Standards and regulations

Free from substances that could impair the application of coating	Yes
Other resistance	Resistant to welding splashes
Standards/regulations	EN 60204-1 (PELV)

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Standard designation	Protective extra-low voltage
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Mounting

Mounting type	Wall mounting
Assembly note	Observe derating
Mounting position	any

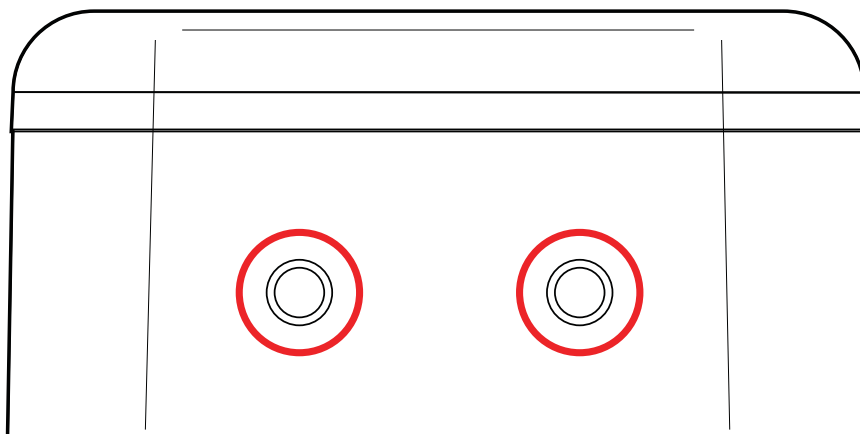
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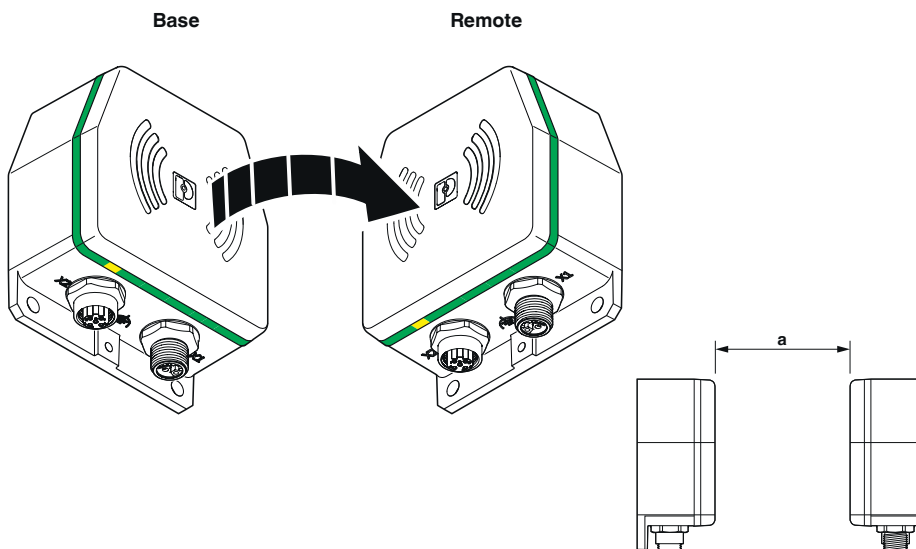
Drawings

Schematic diagram



Mounting option

Schematic diagram



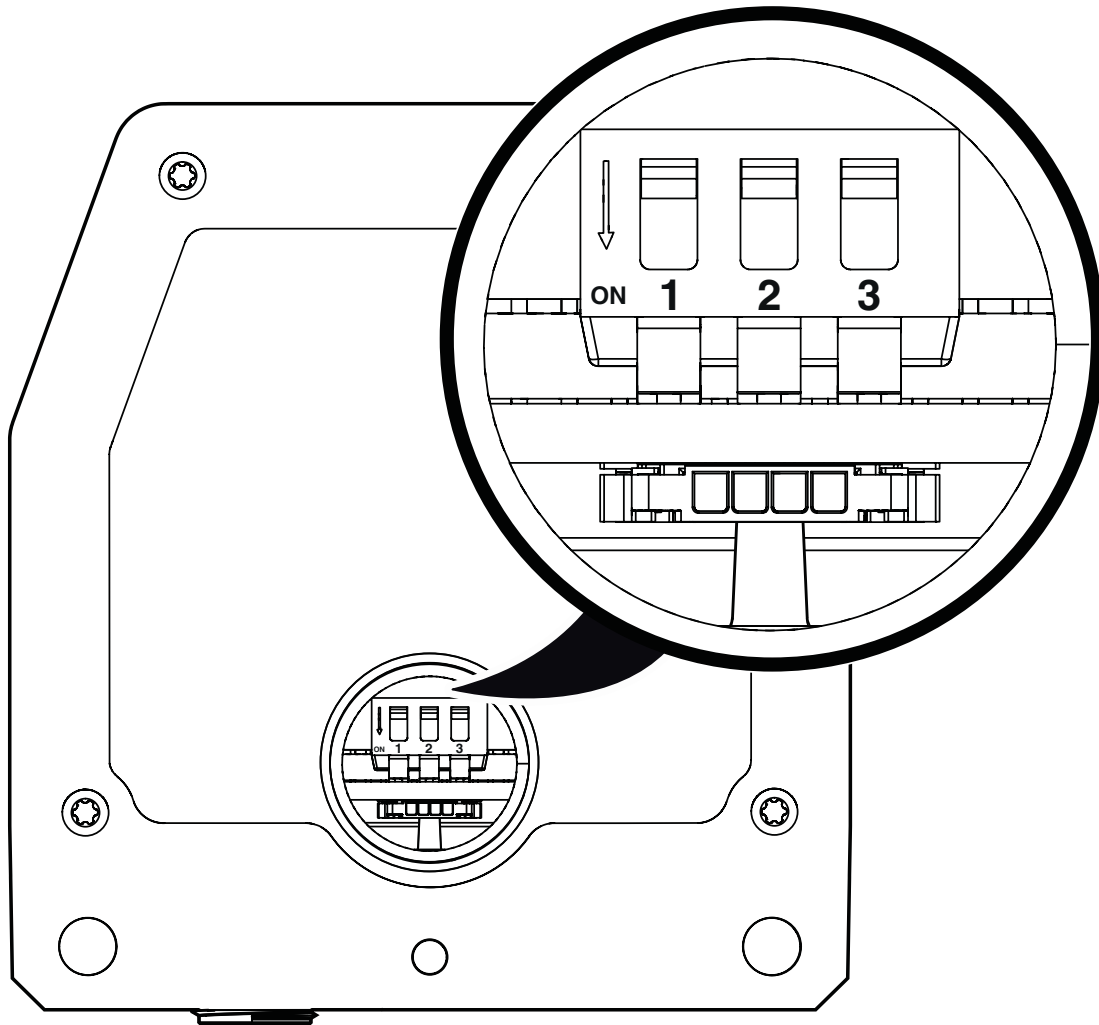
Method of operation

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Schematic diagram



DIP switches

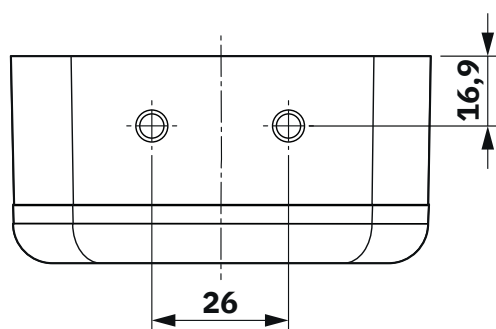
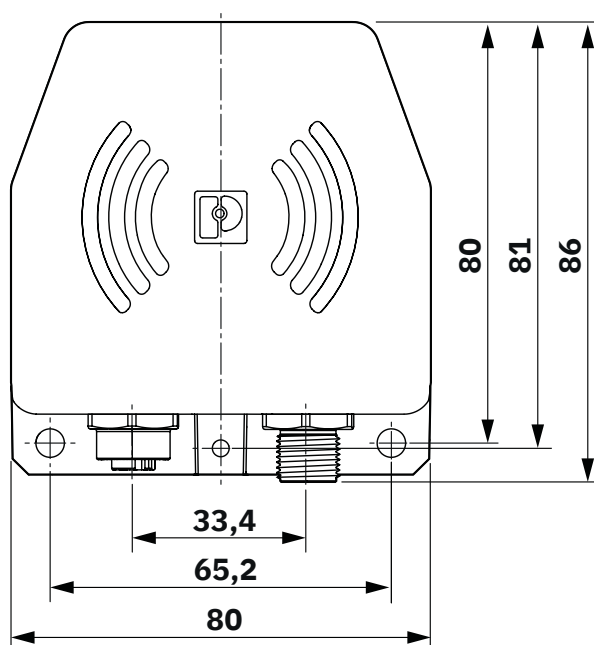
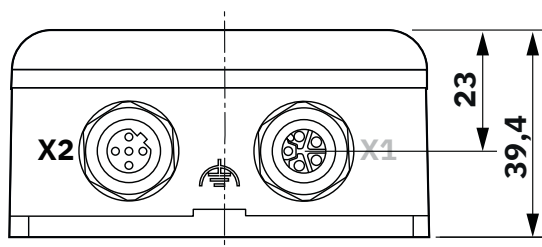
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Dimensional drawing

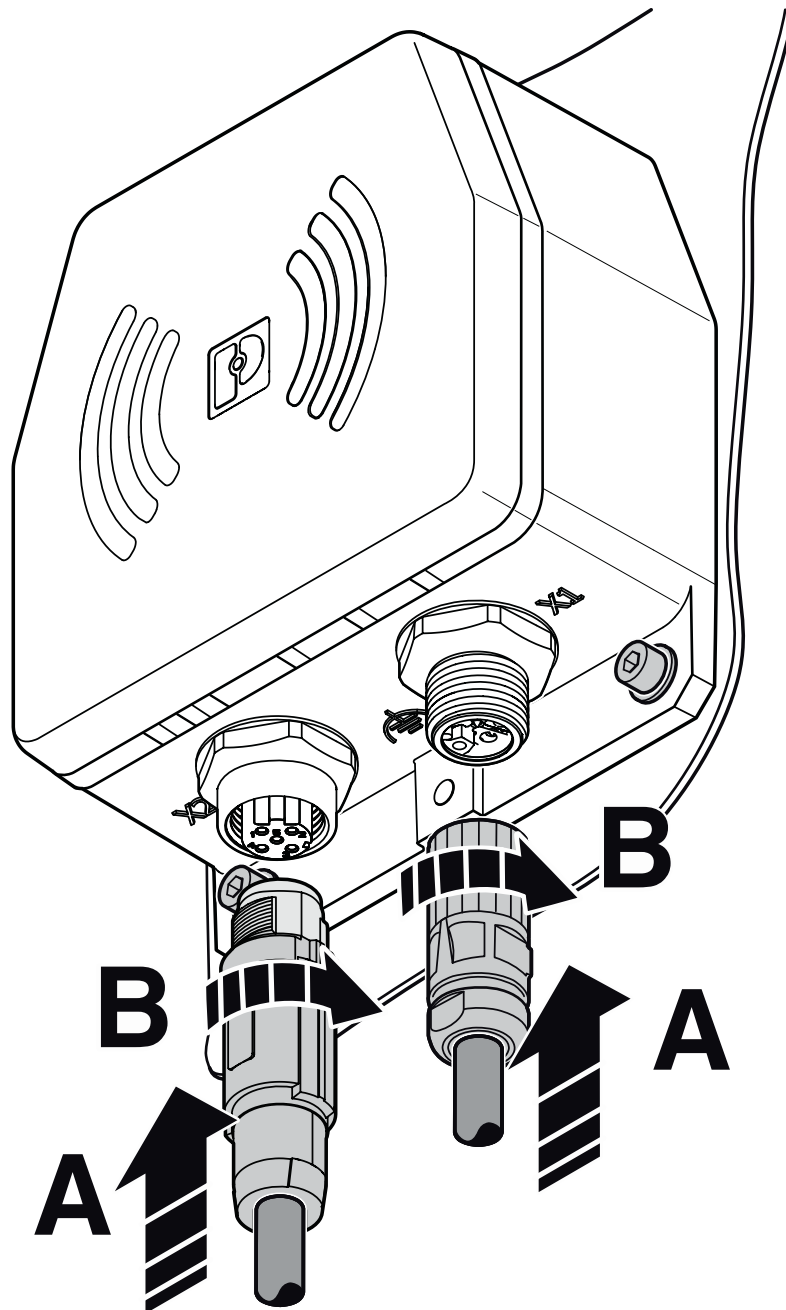


Dimensional drawing

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Schematic diagram



Connecting the cables

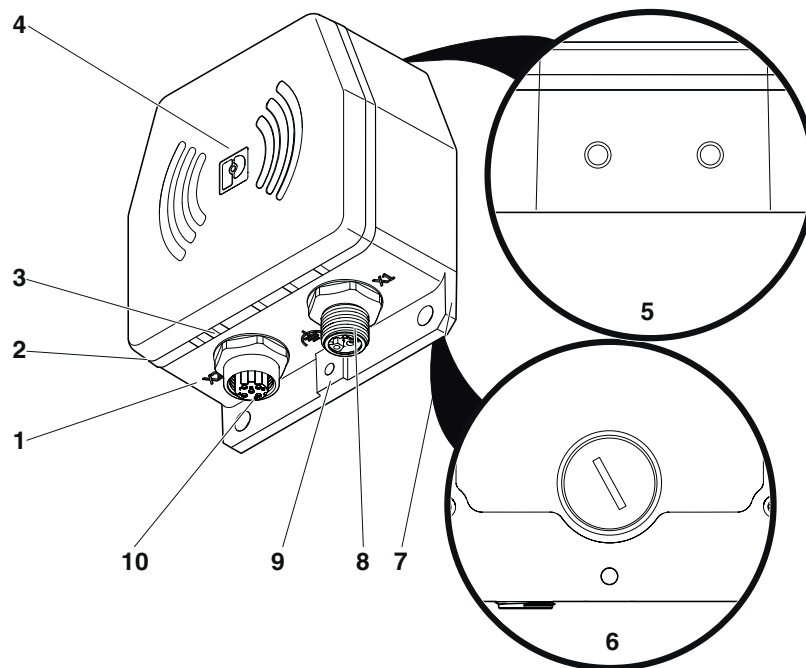
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Schematic diagram



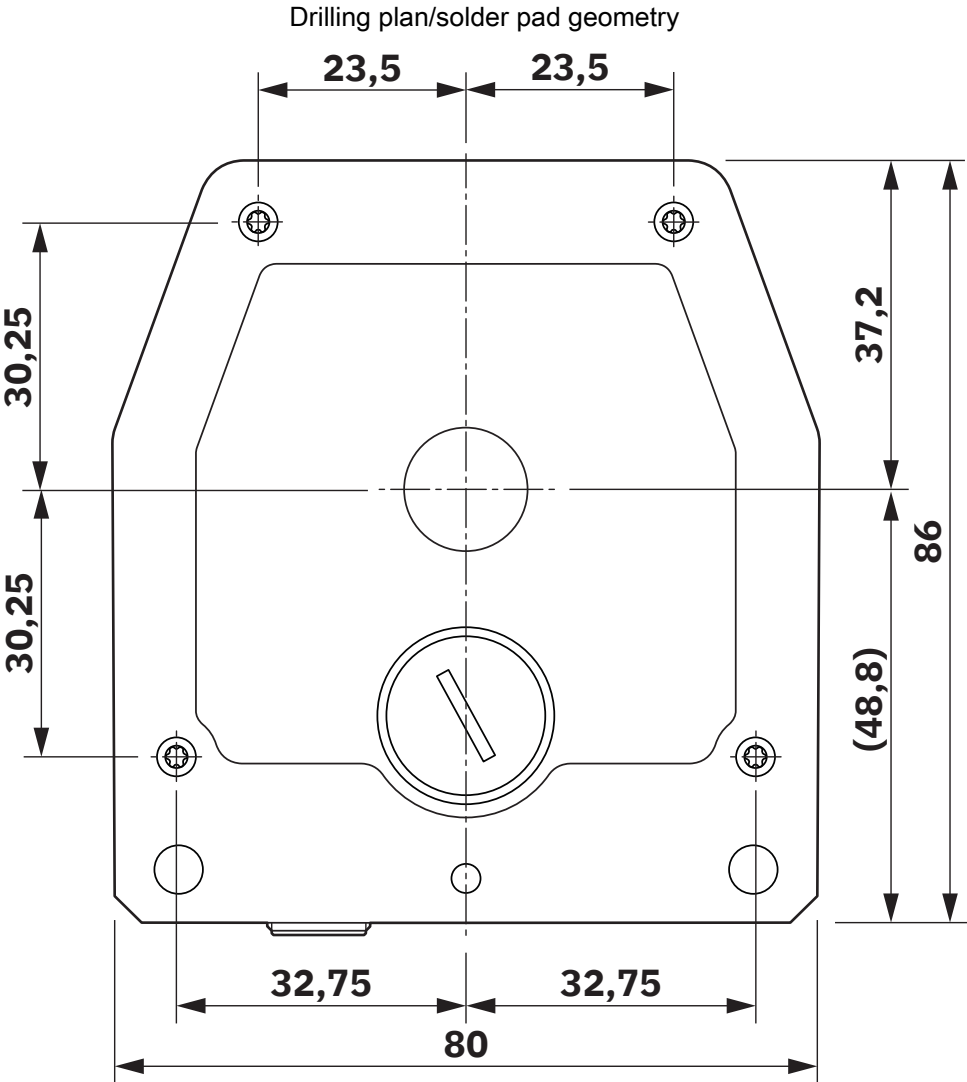
Function elements

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Centering template

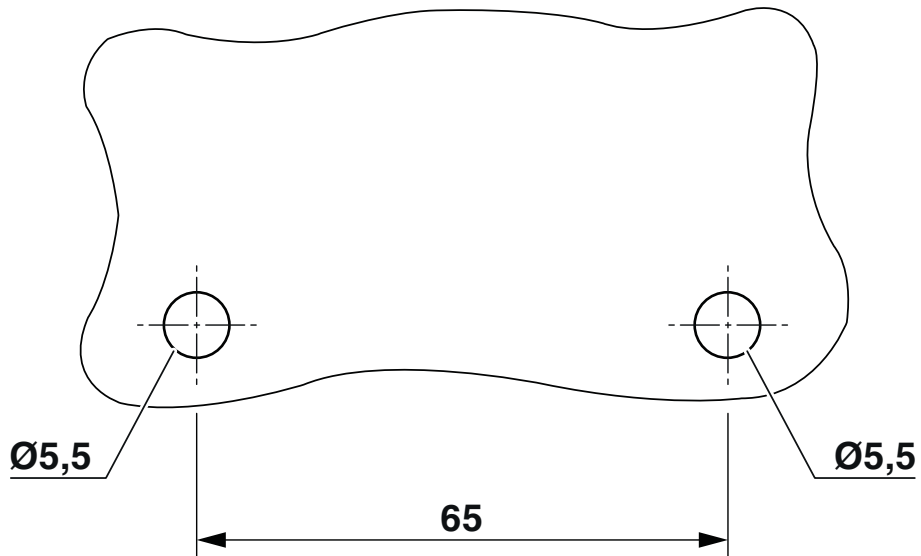
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Drilling plan/solder pad geometry



Drilling diagram

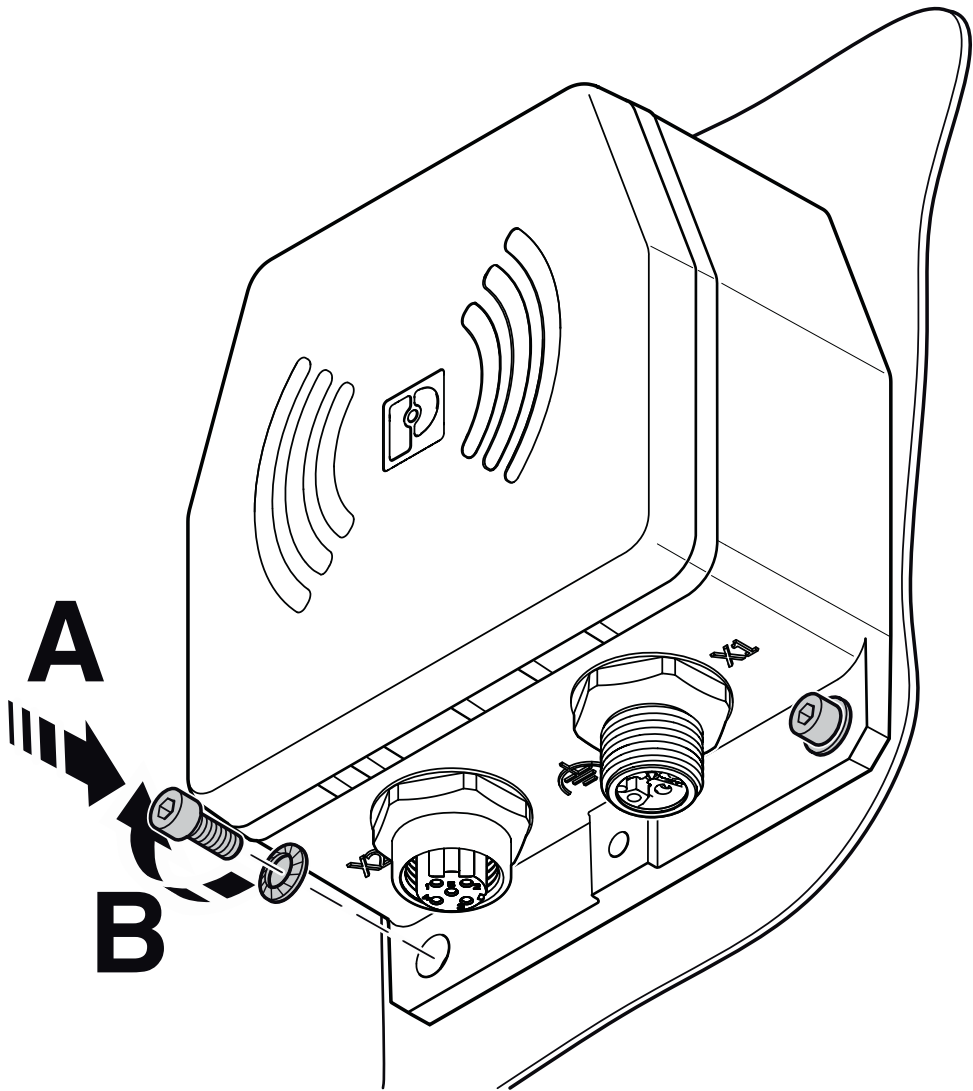
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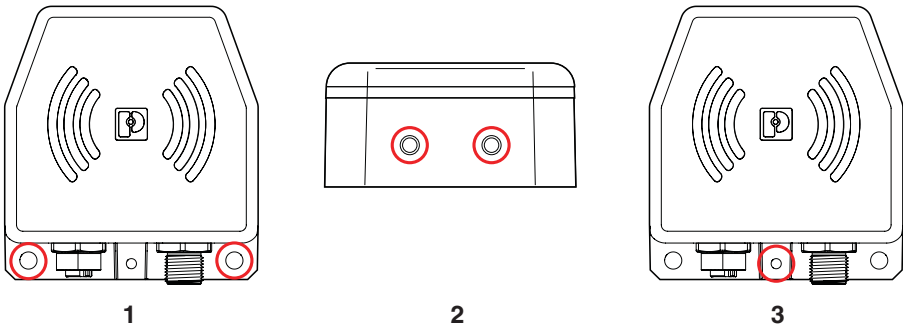
<https://www.phoenixcontact.com/us/products/1234234>

Schematic diagram



Mounting with two screws

Schematic diagram

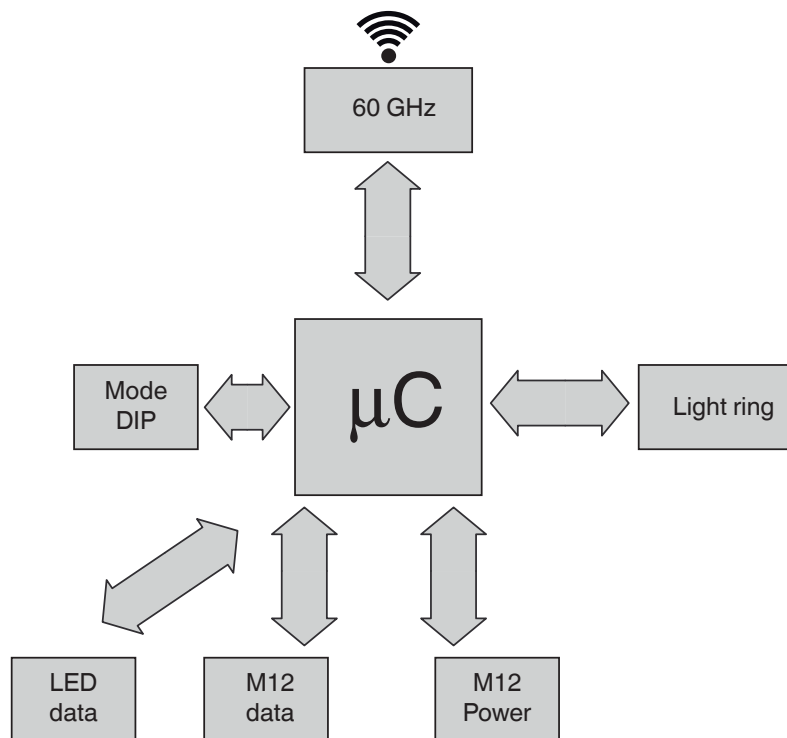


Options for functional grounding

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Block diagram



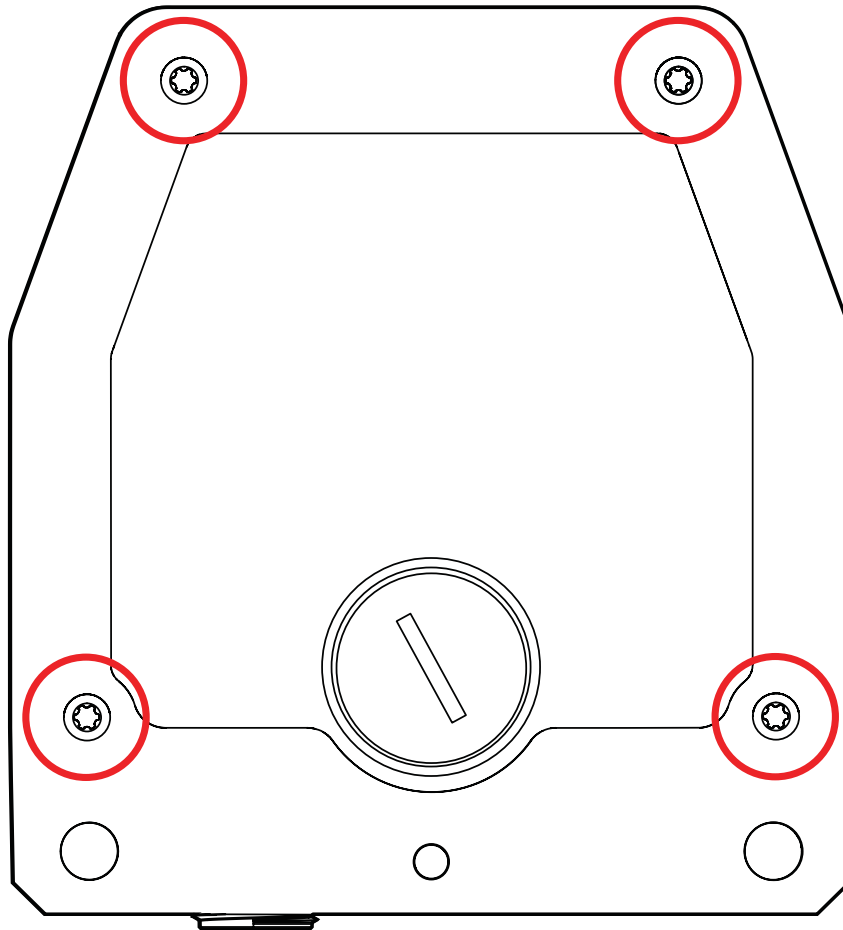
Basic circuit diagram

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Schematic diagram



Mounting with four screws

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Approvals


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UL Listed
Approval ID: E238705



cUL Listed
Approval ID: E238705



MIC
Approval ID: 006-001057

FCC
Approval ID: YG3DETHR

Industry Canada
Approval ID: 4720B-DETHR

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27040701
ECLASS-12.0	27040701
ECLASS-13.0	27040701

ETIM

ETIM 8.0	EC002540
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
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)
SCIP	a2658cee-fc4c-4f56-8880-95cb2050418a

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Mandatory accessories

NEARFI D ETH B - Inductive coupler

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NearFi, base coupler for contactless real-time Ethernet transmission in the centimeter range, 100 Mbps, full duplex, M12 connection technology, IP65 type of protection. A remote coupler is required for operation.

Accessories

SACC-M12MRD-4PL SH PN - Connector

1424684

<https://www.phoenixcontact.com/us/products/1424684>



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

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SACC-M12MSD-4CON-PG 9-SH - Data connector

1521261

<https://www.phoenixcontact.com/us/products/1521261>



Data connector, Ethernet CAT5 (100 Mbps), 4-position, shielded, Plug straight M12, coding: D, Screw connection, knurl material: Brass, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

NBC-M12MSD/.../... - Network cable

1408713

<https://www.phoenixcontact.com/us/products/1408713>



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on free cable end, cable length: Free input (0.2 ... 40.0 m)

NEARFI D ETH R - Inductive coupler

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NBC-M12MSD-M12FSD/.../... - Network cable

1408692

<https://www.phoenixcontact.com/us/products/1408692>



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on Socket straight M12, coding: D / IP67, cable length: Free input (0.2 ... 40.0 m)

NBC-M12MSD-M12MSD/.../... - Network cable

1408706

<https://www.phoenixcontact.com/us/products/1408706>



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on Plug straight M12, coding: D / IP67, cable length: Free input (0.2 ... 40.0 m)

NEARFI D ETH R - Inductive coupler

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NBC-M12MSD-R4AC/.../... - Network cable

1408712

<https://www.phoenixcontact.com/us/products/1408712>



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on Plug straight RJ45 / IP20, cable length: Free input (0.2 ... 40.0 m)

SACC-M12MRD-4Q SH - Data connector

1553624

<https://www.phoenixcontact.com/us/products/1553624>



Data connector, Ethernet CAT5 (100 Mbps), 4-position, shielded, Plug angled M12, coding: D, Insulation displacement connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm

NEARFI D ETH R - Inductive coupler

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<https://www.phoenixcontact.com/us/products/1234234>



SACC-M12MSD-4QO SH ETH - Data connector

1411066

<https://www.phoenixcontact.com/us/products/1411066>



Data connector, Ethernet CAT5 (100 Mbps), 4-position, halogen-free, shielded, Plug straight M12, coding: D, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

SACC-M12MSD-4QO SH PN - Data connector

1411068

<https://www.phoenixcontact.com/us/products/1411068>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, halogen-free, shielded, Plug straight M12, coding: D, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

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<https://www.phoenixcontact.com/us/products/1234234>



SACC-M12MRD-4Q SH PN - Data connector

1554539

<https://www.phoenixcontact.com/us/products/1554539>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12, coding: D, Insulation displacement connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm

NBC-M12MSD/ 1,0-93B - Network cable

1407495

<https://www.phoenixcontact.com/us/products/1407495>



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: 1 m

NEARFI D ETH R - Inductive coupler

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NBC-M12MSD/ 2,0-93B - Network cable

1407496

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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: 2 m

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

1407497

<https://www.phoenixcontact.com/us/products/1407497>



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

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NBC-M12MSD/10,0-93B - Network cable

1407498

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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: 10 m

NBC-M12MSD/ 1,0-93B/R4AC - Network cable

1407499

<https://www.phoenixcontact.com/us/products/1407499>



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: 1 m

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NBC-M12MSD/ 2,0-93B/R4AC - Network cable

1407500

<https://www.phoenixcontact.com/us/products/1407500>



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: 2 m

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

1407501

<https://www.phoenixcontact.com/us/products/1407501>



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/10,0-93B/R4AC - Network cable

1407502

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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: 10 m

NBC-M12MSD/ 1,0-93B/M12MSD - Network cable

1407524

<https://www.phoenixcontact.com/us/products/1407524>



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, coding: D / IP67, cable length: 1 m

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NBC-M12MSD/ 2,0-93B/M12MSD - Network cable

1407525

<https://www.phoenixcontact.com/us/products/1407525>



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, coding: D / IP67, cable length: 2 m

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

1407526

<https://www.phoenixcontact.com/us/products/1407526>



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, coding: D / IP67, cable length: 5 m

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NBC-M12MSD/10,0-93B/M12MSD - Network cable

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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, coding: D / IP67, cable length: 10 m

VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

<https://www.phoenixcontact.com/us/products/1656725>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet

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SAC-5P- 2,0-186/FS SCO - Sensor/actuator cable

1518368

<https://www.phoenixcontact.com/us/products/1518368>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 2 m

SAC-5P- 5,0-186/FS SCO - Sensor/actuator cable

1518371

<https://www.phoenixcontact.com/us/products/1518371>



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

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SAC-5P-10,0-186/FS SCO - Sensor/actuator cable

1518384

<https://www.phoenixcontact.com/us/products/1518384>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 10 m

SAC-5P-15,0-186/FS SCO - Sensor/actuator cable

1518397

<https://www.phoenixcontact.com/us/products/1518397>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 15 m

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SACC-M12FS-5CON-PG9-M - Connector

1681486

<https://www.phoenixcontact.com/us/products/1681486>



Connector, Universal, 5-position, Socket straight M12, coding: A, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

SACC-M12FR-5CON-PG9-M - Connector

1681499

<https://www.phoenixcontact.com/us/products/1681499>



Connector, Universal, 5-position, Socket angled M12, coding: A, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

NEARFI D ETH R - Inductive coupler



1234234

<https://www.phoenixcontact.com/us/products/1234234>

SAC-5P-MS/ 1,0-186/FS SCO - Sensor/actuator cable

1518423

<https://www.phoenixcontact.com/us/products/1518423>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 1 m

SAC-5P-MS/ 2,0-186/FS SCO - Sensor/actuator cable

1518436

<https://www.phoenixcontact.com/us/products/1518436>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 2 m

NEARFI D ETH R - Inductive coupler



1234234

<https://www.phoenixcontact.com/us/products/1234234>

SAC-5P-MS/ 5,0-186/FS SCO - Sensor/actuator cable

1518449

<https://www.phoenixcontact.com/us/products/1518449>



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

SAC-5P-MS/10,0-186/FS SCO - Sensor/actuator cable

1518452

<https://www.phoenixcontact.com/us/products/1518452>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 10 m

NEARFI D ETH R - Inductive coupler

1234234

<https://www.phoenixcontact.com/us/products/1234234>



SAC-5P-MS/15,0-186/FS SCO - Sensor/actuator cable

1518465

<https://www.phoenixcontact.com/us/products/1518465>



Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 15 m

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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