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NearFi, base coupler for contactless power transmission in the centimeter range, 24 V DC, 2 A, M12 connection technology, IP65 type of protection. A remote coupler is required for operation.

Product description

With the robust NEARFI-P... NearFi couplers, you can transmit power (24 V DC / 2 A) without contact across a distance in the centimeter range. 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
- · High power in a compact housing
- · 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	1234226
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN12
Product key	DNC692
GTIN	4063151337926
Weight per piece (including packing)	574 g
Weight per piece (excluding packing)	535 g
Customs tariff number	85176200
Country of origin	DE

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Technical data

Product properties

	Inductive coupler
Product type	
Application	Power
MTTF	331 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	196 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	98 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
nsulation characteristics	
Overvoltage category	П
Della francisco de como	
Pollution degree	1
Ctrical properties Maximum power dissipation for nominal condition	0.72 W
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ctrical properties Maximum power dissipation for nominal condition	0.72 W
ctrical properties Maximum power dissipation for nominal condition upply Supply voltage range	0.72 W 19 V DC 30 V DC 30 mA (without remote coupler, at 24 V DC, at 25°C)
ctrical properties Maximum power dissipation for nominal condition upply Supply voltage range	0.72 W 19 V DC 30 V DC
ctrical properties Maximum power dissipation for nominal condition upply Supply voltage range Typical current consumption	0.72 W 19 V DC 30 V DC 30 mA (without remote coupler, at 24 V DC, at 25°C) 125 mA (with remote coupler, without load, at 24 V DC, at 25°C)
ctrical properties Maximum power dissipation for nominal condition Supply Supply voltage range Typical current consumption Max. current consumption	0.72 W 19 V DC 30 V DC 30 mA (without remote coupler, at 24 V DC, at 25°C) 125 mA (with remote coupler, without load, at 24 V DC, at 25°C ≤ 3.2 A (with remote coupler, 2 A load, input voltage of 19 V DC
ctrical properties Maximum power dissipation for nominal condition Supply Supply voltage range Typical current consumption Max. current consumption	0.72 W 19 ∨ DC 30 ∨ DC 30 mA (without remote coupler, at 24 ∨ DC, at 25°C) 125 mA (with remote coupler, without load, at 24 ∨ DC, at 25°C) ≤ 3.2 A (with remote coupler, 2 A load, input voltage of 19 ∨ DC ≤ 0.8 A (8 ms at 24 ∨ DC, without remote coupler)

Input data

Digital

Description of the input	Digital input
Number of inputs	1
Voltage input signal	19 V DC 30 V DC
Switching level "1" signal	19 V DC 30 V DC

Output data

Signal	
Output name	Digital output
Number of outputs	1
Voltage output signal	24 V DC

Connection data

Supply

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Connection method	M12 connector (A-coded)
Connection method	

Interfaces

Inductive: Power transmission

Switch-on time	< 50 ms
Range	min. 0 mm
	typ. 10 mm (at 60 °C)
	typ. 12 mm (at 25 °C)
Frequency range	100 kHz 148.5 kHz (Power transmission)
Test field strength	~ 1.95 µA/m (within 10 m distance)

Dimensions

Dimensions	
Dimensional drawing	
Width	80 mm
Height	86 mm
Depth	39 mm

Material specifications

Material	PBT
	Die-cast zinc
Flammability rating according to UL 94	V0
Impact strength	IK06

Cable/line

Other resistance Resistant to welding splashes
--

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP65
Impact strength	IK06
Ambient temperature (operation)	-20 °C 60 °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 %
Air pressure (operation)	80 kPa 108 kPa (up to 2000 m above sea level)

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Air pressure (storage/transport)	66 kPa 108 kPa (up to 3500 m above sea level)
provals	
E	
Certificate	CE-compliant
Vireless approval, Europe	
Note	RED 2014/53/EU
C approval for South Korea	
Certificate	R-R-PCK-1234232
1C data	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conducted noise emission	EN 55032 Class A, industrial applications
lectrostatic discharge	
Standards/regulations	EN 61000-4-2
-	
lectrostatic discharge Contact discharge	± 4 kV (Test Level 2)
Discharge in air	± 8 kV (Test Level 2)
Comments	Criterion B
lectromagnetic HF field	
Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	80 MHz 1 GHz (Test Level 3)
Field intensity	10 V/m
Comments	Criterion A
ast transients (burst)	
Standards/regulations	EN 61000-4-4
ast 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
urge current load (surge)	
Standards/regulations	EN 61000-4-5
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)





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Signal	± 1 kV (Test Level 2 - asymmetrical)
Comments	Criterion B
Conducted interference	
	EN 61000-4-6
Standards/regulations	EN 01000-4-0
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)
Standard designation	Protective extra-low voltage

Mounting

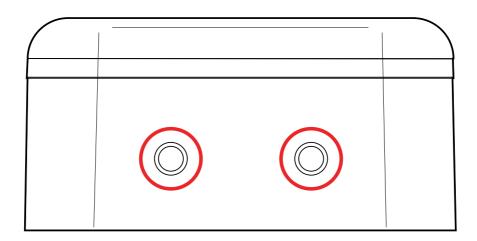
Mounting type	Wall mounting
Assembly instructions	Observe derating
Mounting position	any



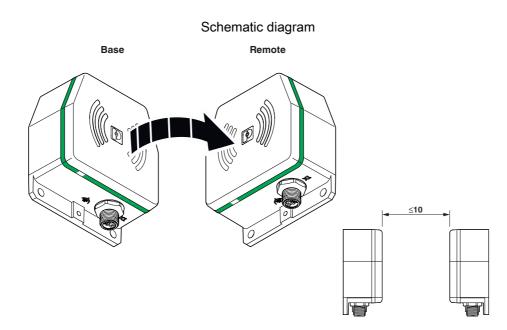
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Drawings

Schematic diagram



Mounting option



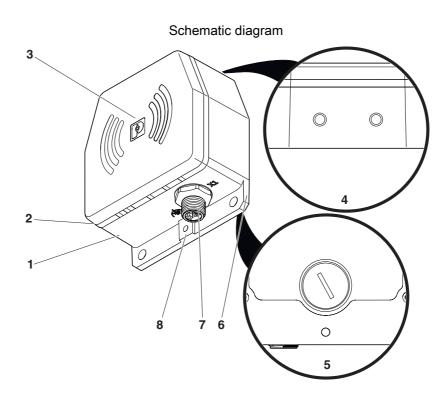
Method of operation

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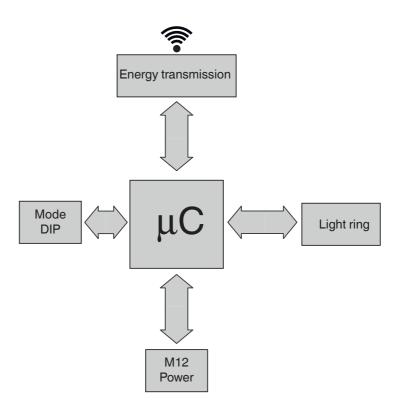
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Function elements

Block diagram



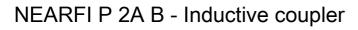


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Schematic diagram A

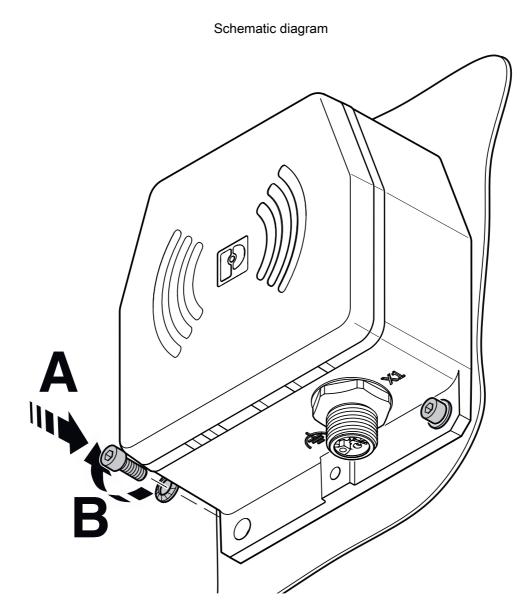
Connecting the cables



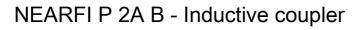


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Mounting with two screws

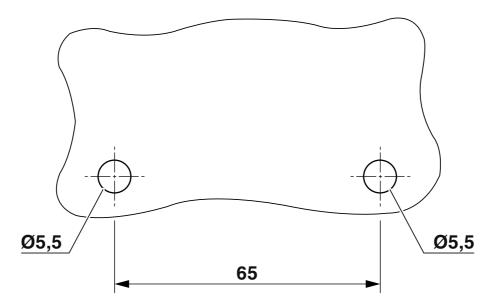




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Drilling plan/solder pad geometry

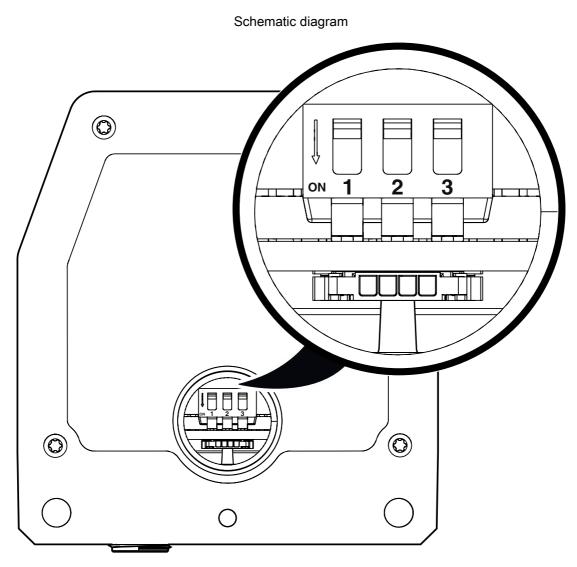


Drilling diagram

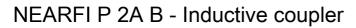


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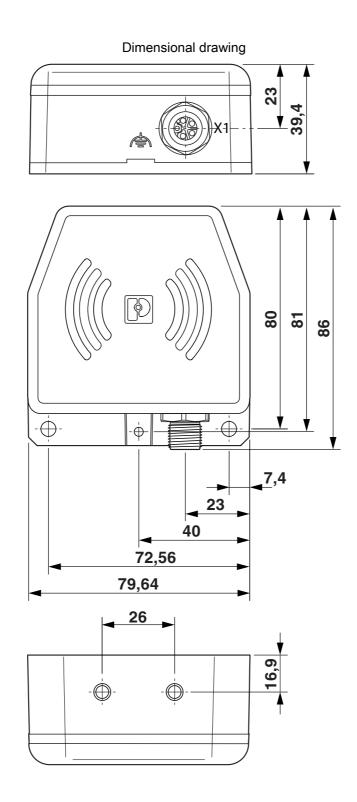
DIP switches





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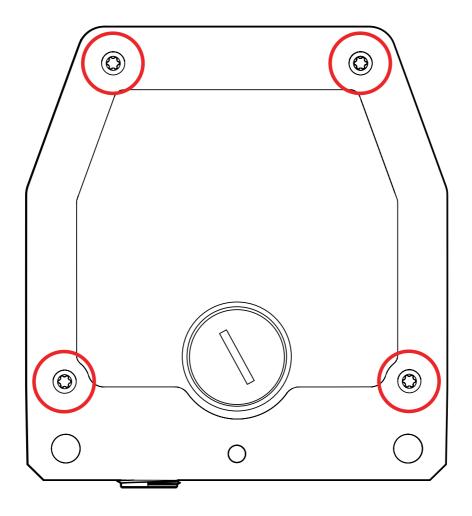
Dimensional drawing



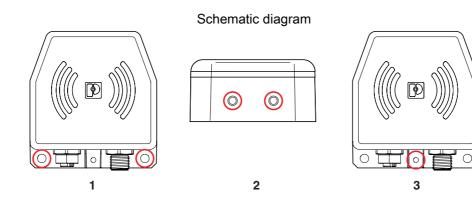
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Schematic diagram



Mounting with four screws



Options for functional grounding



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1234226



cULus Listed



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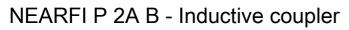
Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC002540		
UNSPSC				
	UNSPSC 21.0	39121000		



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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Mandatory accessories

NEARFI P 2A R - Inductive coupler

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NearFi, remote coupler for contactless power transmission in the centimeter range, 24 V DC, 2 A, M12 connection technology, IP65 type of protection. A base coupler is required for operation.

Accessories

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

1518368

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



Sensor/actuator cable, 5-position, free cable end, on Socket straight M12, coding: A SPEEDCON, cable length: 2 m $\,$

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

1518371

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



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

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

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



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

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

1518397

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



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

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

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



Sensor/actuator cable, 5-position, Plug straight M12, coding: A SPEEDCON, connected with unwired, on Socket straight M12, coding: A SPEEDCON, cable length: 1 m

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

1518436

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



Sensor/actuator cable, 5-position, Plug straight M12, coding: A SPEEDCON, connected with unwired, on Socket straight M12, coding: A SPEEDCON, cable length: 2 m $\,$

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

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



Sensor/actuator cable, 5-position, Plug straight M12, coding: A SPEEDCON, connected with unwired, on Socket straight M12, coding: A SPEEDCON, cable length: 5 m

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

1518452

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



Sensor/actuator cable, 5-position, Plug straight M12, coding: A SPEEDCON, connected with unwired, on Socket straight M12, coding: A SPEEDCON, cable length: 10 m $\,$

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

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



Sensor/actuator cable, 5-position, Plug straight M12, coding: A SPEEDCON, connected with unwired, on Socket straight M12, coding: A SPEEDCON, 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, 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, A, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

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PROT-M12 FS - Sealing cap

1560251

https://www.phoenixcontact.com/us/products/1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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