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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
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### 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

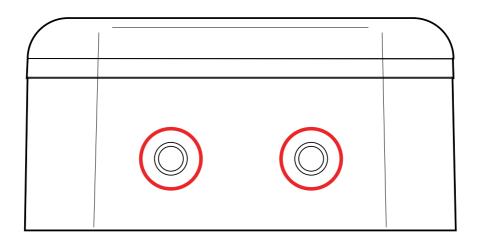
Mounting type	Wall mounting
Assembly instructions	Observe derating
Mounting position	any



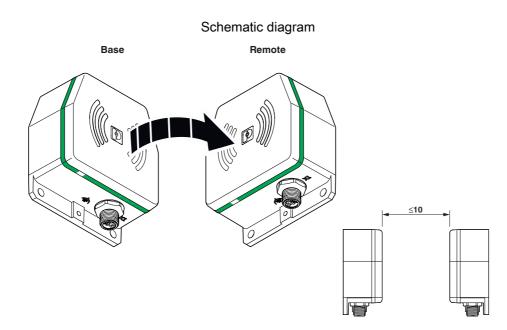
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### Drawings

Schematic diagram



Mounting option



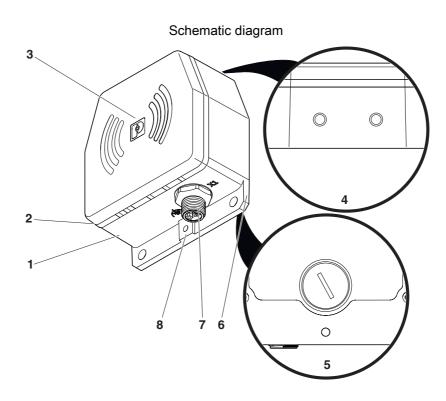
Method of operation

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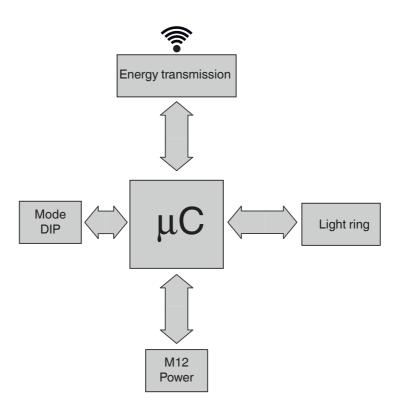
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Function elements

Block diagram



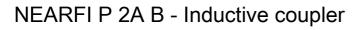


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Schematic diagram A

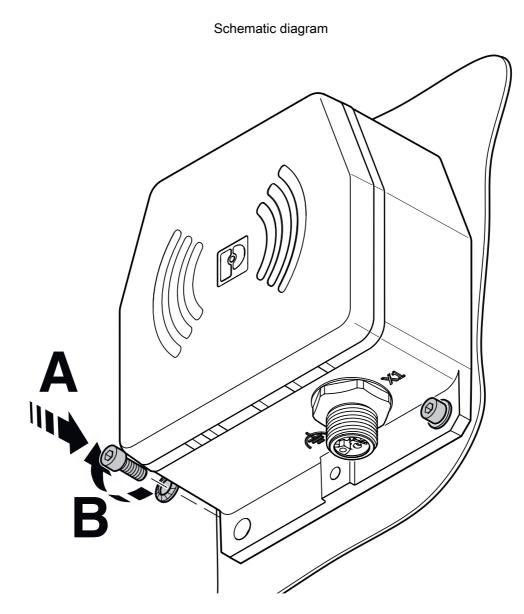
Connecting the cables



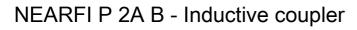


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Mounting with two screws

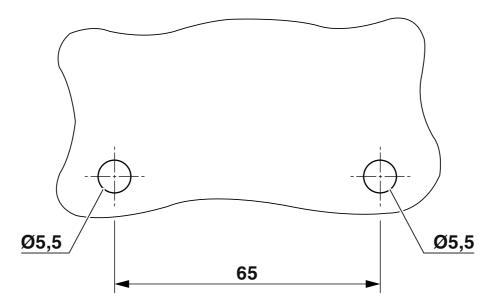




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### Drilling plan/solder pad geometry

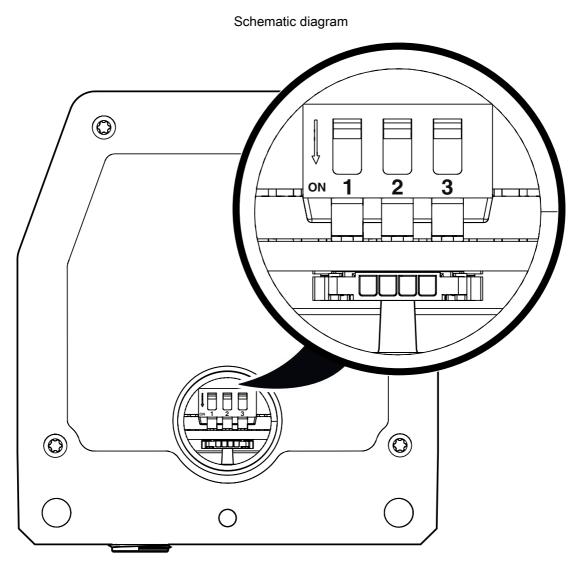


Drilling diagram

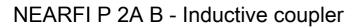


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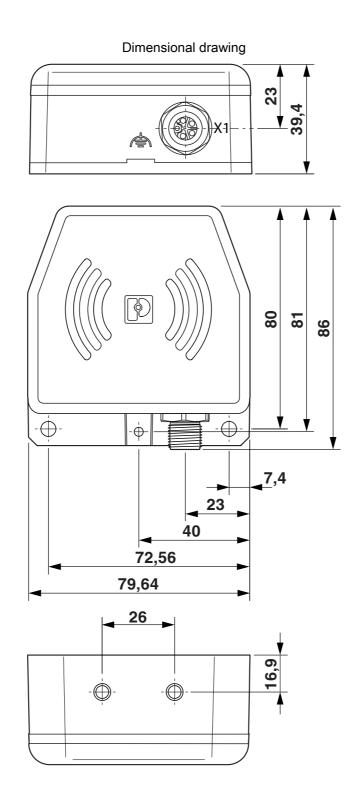
**DIP** switches





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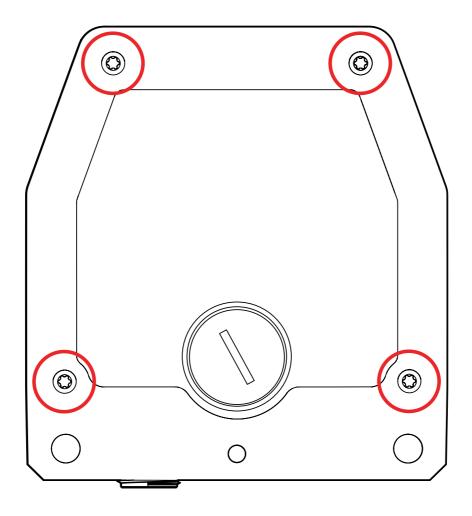
Dimensional drawing



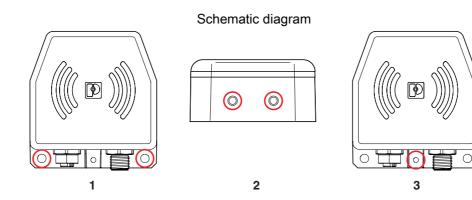
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Schematic diagram



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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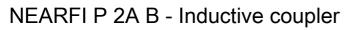
### Classifications

### 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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