

# PACT RCP-D190-10M - Coil

2910324

<https://www.phoenixcontact.com/us/products/2910324>



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600 mm long Rogowski coil. The measuring coil diameter when installed is 190 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.



## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2910324             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | C444                |
| Product key                          | CK4A12              |
| Catalog page                         | Page 219 (C-5-2019) |
| GTIN                                 | 4055626437569       |
| Weight per piece (including packing) | 401.66 g            |
| Weight per piece (excluding packing) | 382 g               |
| Customs tariff number                | 90309000            |
| Country of origin                    | IT                  |

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## Technical data

### Product properties

|               |                                    |
|---------------|------------------------------------|
| Product type  | Rogowski coil                      |
| Set comprises | 2910327 PACT RCP-4000A-1A-D190-10M |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 03 |
|------------------|----|

### Insulation characteristics

|                  |   |
|------------------|---|
| Pollution degree | 2 |
|------------------|---|

### Electrical properties

#### Measuring coil

|                                 |                                 |
|---------------------------------|---------------------------------|
| Conductor structure signal line | 2x 0.22 mm (Signal (tinned))    |
|                                 | 1x 0.22 mm (Shielding (tinned)) |
| Insulation                      | double insulation               |
| Rated insulation voltage        | 1000 V AC (rms CAT III)         |
|                                 | 600 V AC (rms CAT IV)           |
| Test voltage                    | 10.45 kV DC (60 s)              |
| Basic accuracy                  | <± 0.2 %                        |

#### General

|                |               |
|----------------|---------------|
| Converter type | Rogowski coil |
|----------------|---------------|

### Input data

#### Frequency

|                           |                    |
|---------------------------|--------------------|
| Designation               | Measuring coil     |
| Frequency measuring range | 40 Hz ... 20000 Hz |
| Position error            | <± 0.1 % (typical) |
| Linearity error           | < 0.1 %            |

#### Current transformer

|                |               |
|----------------|---------------|
| Converter type | Rogowski coil |
|----------------|---------------|

### Output data

#### Signal

|   |  |
|---|--|
| Designation                                       | Measuring coil   |
| Output signal (at 50 Hz)                          | 100 mV (no load, at 1,000 A)   |
| Output voltage (in no-load operation)             | $V_{OUT} = M \cdot dI/dt$  |
| Output voltage (sinusoidal, in no-load operation) | 100 mV ( $V_{OUT} = 2 \cdot \pi \cdot M \cdot f \cdot I$ (M = 0.318 µH; example: At 50 Hz; I = 1,000 A)) |

### Dimensions

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## Measuring coil

|          |                     |
|----------|---------------------|
| Length   | 600 mm              |
| Diameter | 8.3 mm $\pm$ 0.2 mm |

## Measuring coil when installed

|          |        |
|----------|--------|
| Diameter | 190 mm |
|----------|--------|

## Signal line

|        |      |
|--------|------|
| Length | 10 m |
|--------|------|

## Material specifications

|                  |            |
|------------------|------------|
| Housing material | PC         |
| Coil material    | Elastollan |

## Environmental and real-life conditions

### Ambient conditions

|   |                                   |
|---|-----------------------------------|
| Measuring coil degree of protection     | IP54 (not assessed by UL)         |
| Ambient temperature (operation)         | -30 °C ... 80 °C (Measuring coil) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C (Measuring coil) |
| Altitude                                | < 2000 m                          |
| Permissible humidity (operation)        | 5 % ... 95 % (non-condensing)     |

## Approvals

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

### CMIM

|             |                |
|-------------|----------------|
| Certificate | CMIM-compliant |
|-------------|----------------|

### UL, USA/Canada

|                |                     |
|----------------|---------------------|
| Identification | UL 61010 Recognized |
| Note           | Measuring coil      |

## Standards and regulations

|                       |                 |
|-----------------------|-----------------|
| Standards/regulations | IEC 61010-1     |
|                       | IEC 61010-2-030 |
|                       | IEC 61869-10    |

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2910324>



**cUL Recognized**  
Approval ID: FILE E 357804



**UL Recognized**  
Approval ID: FILE E 357804

**cULus Recognized**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27210992 |
| ECLASS-12.0 | 27210992 |
| ECLASS-13.0 | 27210992 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002498 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121000 |
|-------------|----------|

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## Environmental product compliance

|   |  |
|---|--|
| EU RoHS                                 |  |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |  |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|   | No hazardous substances above the limits |
| EU REACH SVHC                           |  |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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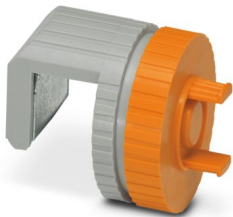


## Accessories

### PACT RCP-CLAMP - Holder

2904895

<https://www.phoenixcontact.com/us/products/2904895>



The optional holding device ensures the Rogowski coil is securely seated on busbars with a thickness of 10 ... 15 mm. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

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