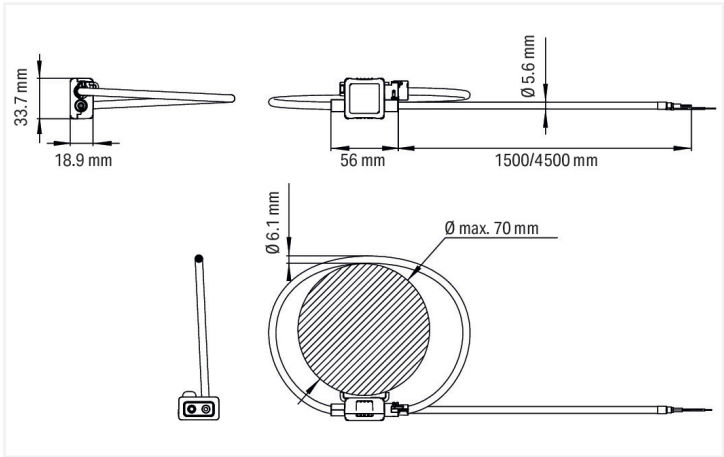




Dimensions in mm

**Short description:**  
WAGO's Rogowski coils are used to measure AC currents and are particularly well suited for retrofitting in existing systems. The split coil bobbin allows for subsequent installation around the primary conductor – be it current bars or round conductors. These Rogowski coils can be connected to WAGO's 857-552, 750-495/000-002 and 2857-570/024-000 modules. A sealable bayonet catch and mounting brackets for cable ties make for easy installation.

| Notes |  |                                                                                                                                                                                                                                                                                                                                                                 |
|-------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note  |  | Rogowski technology allows the coils to measure a wide primary current range of up to 10,000 A without loss of accuracy, because there are no saturation effects. The requirements for standards EN 61869-1, EN 61869-2, EN 61869-6 and EN 61869-10 are only partially met, as there are fundamental differences with current transformers for a Rogowski coil. |

| Technical data                     |                                                                              |                                                  |                 |  |  |
|------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------|-----------------|--|--|
| Input                              |                                                                              | Input – current transformer                      |                 |  |  |
| Measurement range                  | 10 ... 10,000 A (up to 4000 A in combination with recommended WAGO products) | Rated short-time thermal current I <sub>th</sub> | 300 kA at 50 Hz |  |  |
| Measured variable                  | Current                                                                      | Mutual Inductance M                              | 71.98 nH        |  |  |
|                                    |                                                                              | Rated frequency                                  | 50 ... 60 Hz    |  |  |
|                                    |                                                                              | Primary rated current                            | 1000 A          |  |  |
|                                    |                                                                              |                                                  |                 |  |  |
| Output – analog                    |                                                                              | Signal Processing                                |                 |  |  |
| Sensitivity                        | 22.5 mV/kA at 50 Hz                                                          | Limit frequency                                  | 344 kHz         |  |  |
| Output signal (max.)               | 30 V                                                                         |                                                  |                 |  |  |
| Internal resistance R <sub>i</sub> | 56 Ω                                                                         |                                                  |                 |  |  |



| Measurement Error                  |                                                                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Accuracy class                     | 0.5                                                                                                                               |
| Translation errors (all positions) | 0.75 %                                                                                                                            |
| Translation errors (note)          | Assuming the use of a primary conductor with a diameter of at least 15 mm, running perpendicular to and in contact with the coil. |

| Safety and protection                 |                                                                      |
|---------------------------------------|----------------------------------------------------------------------|
| Rated Voltage                         | 1000 VAC <sub>rms</sub> (Cat. III); 600 VAC <sub>rms</sub> (Cat. IV) |
| Impulse withstand voltage (1.2/50 µs) | 12.8 kV                                                              |
| Protection type                       | IP57                                                                 |
| Voltage for isolation test            | 7.4 kVAC; 50 Hz; 1 min                                               |

| Connection Data                       |         |
|---------------------------------------|---------|
| Feedthrough for measurement conductor | Ø 70 mm |

| Physical data |       |
|---------------|-------|
| Cable length  | 4.5 m |

| Mechanical data |                                            |
|-----------------|--------------------------------------------|
| Mounting type   | Split-core current transformer (suspended) |

| Material data |       |
|---------------|-------|
| Fire load     | 0 MJ  |
| Weight        | 130 g |

| Environmental requirements      |                               |
|---------------------------------|-------------------------------|
| Ambient temperature (operation) | -40 ... +80 °C                |
| Ambient temperature (storage)   | -40 ... +80 °C                |
| Relative humidity               | ≤ 90 % (without condensation) |
| Operating altitude (max.)       | 2000 m                        |

| Standards and Specifications |                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------|
| Conformity marking           | CE                                                                                                 |
| Standards/specifications     | EN 61010-1<br>EN 61010-2-32<br>EN 61869-1<br>EN 61869-2<br>EN 61869-6<br>EN 61869-10<br>UL 61010-1 |



| Commercial data       |  |             |
|-----------------------|--|-------------|
| PU (SPU)              |  | 1 pcs       |
| Packaging type        |  | Bag         |
| Country of origin     |  | BG          |
| Customs tariff number |  | 90303370000 |

| Product Classification |  |                      |
|------------------------|--|----------------------|
| UNSPSC                 |  | 41113637             |
| eCl@ss 10.0            |  | 27-21-09-02          |
| eCl@ss 9.0             |  | 27-21-09-02          |
| ETIM 9.0               |  | EC002048             |
| ETIM 10.0              |  | EC002048             |
| ECCN                   |  | NO US CLASSIFICATION |

| Environmental Product Compliance |  |                         |
|----------------------------------|--|-------------------------|
| RoHS Compliance Status           |  | Compliant, No Exemption |

Approvals / Certificates

General approvals



| Approval                             | Standard       | Certificate Name |
|--------------------------------------|----------------|------------------|
| EAC<br>GZO Almaty Standart           | TP TC 004/2011 | EAC CoC 03082    |
| UL<br>Underwriters Laboratories Inc. | UL 61010-2-032 | E499682          |

Declarations of conformity and manufacturer's declarations

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

Downloads

Environmental Product Compliance

| Compliance Search                                        |                   |
|----------------------------------------------------------|-------------------|
| Environmental Product<br>Compliance<br>855-9450/2000-701 | <a href="#">↓</a> |

Documentation

| Bid Text          |            |                  |                   |
|-------------------|------------|------------------|-------------------|
| 855-9450/2000-701 | 24.01.2019 | docx<br>17.95 KB | <a href="#">↓</a> |
| 855-9450/2000-701 | 24.01.2019 | xml<br>6.06 KB   | <a href="#">↓</a> |

| Instruction Leaflet                     |         |                   |                   |
|-----------------------------------------|---------|-------------------|-------------------|
| Rogowski-Spulen<br>RC70 / RC125 / RC175 | V 1.1.0 | pdf<br>1698.78 KB | <a href="#">↓</a> |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Signal conditioner

1.1.1.1 Current Signal Conditioner



**Item No.: 857-552**  
Current signal conditioner; Input for Rogowski coils; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm<sup>2</sup>

1.1.1.2 Power Measurement Module



**Item No.: 2857-570/024-000**  
3-Phase Power Measurement Module; 3x277/480 V/RC; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

Installation Notes

Installation



**Bayonet connector:**  
Robust and durable



**Screw-mount clips:**  
Quick and easy mounting with cable ties



**Lock-out seal:**  
Greater security via sealable bayonet lock