

# Rogowski - Current Sensor

RC01-SSS-0 Series  
RC03-SSS-LLLL-0 Series  
RC05-SSS-LLLL-0 Series



- ④ Dynamic Range from 1 to 2500 Amps
- ④ Meets IEC 61869-10 Accuracy Class 1
- ④ Meets ANSI C12.20 Accuracy Class 1.0
- ④ Phase error <0.03 degree @ 50 Hz / 60 Hz
- ④ Bandwidth up to 50kHz
- ④ Immune to external AC magnetic fields
- ④ Immune to DC current & magnetic fields
- ④ Low temperature coefficient

Electrical Specifications @ 25°C - Operating Temperature -20°C to +80°C

| Description                                 | Part Number     | Sensitivity mV/kA |       |           | Wire length | typ. Resonance frequency | typ. Temperature coefficient | typ. external electromagnetic field | typ. external electrical voltage potential |
|---------------------------------------------|-----------------|-------------------|-------|-----------|-------------|--------------------------|------------------------------|-------------------------------------|--------------------------------------------|
|                                             |                 | 50 Hz             | 60 Hz | Tolerance | mm          | kHz                      | ppm / K                      | %                                   | mA (@230VAC / 50Hz)                        |
| RC01-SSS-0                                  |                 |                   |       |           |             |                          |                              |                                     |                                            |
| Rogowski Coil Size 01 - 100mV/kA            | RC01-100        | 100               | 120   | ±1%       | n.A.        | 370                      | 30                           | 0,2                                 | 60                                         |
| Rogowski Coil Size 01 - 100mV/kA - Shielded | RC01-100-S      |                   |       |           |             |                          |                              |                                     | 25                                         |
| Rogowski Coil Size 01 - 200mV/kA            | RC01-200        | 200               | 240   | ±1%       | n.A.        | 200                      | 25                           | 0,2                                 | 40                                         |
| Rogowski Coil Size 01 - 200mV/kA - Shielded | RC01-200-S      |                   |       |           |             |                          |                              |                                     | 25                                         |
| Rogowski Coil Size 01 - 300mV/kA            | RC01-300        | 300               | 360   | ±1%       | n.A.        | 150                      | 25                           | 0,2                                 | 35                                         |
| Rogowski Coil Size 01 - 300mV/kA - Shielded | RC01-300-S      |                   |       |           |             |                          |                              |                                     | 25                                         |
| RC03-SSS-LLLL-0                             |                 |                   |       |           |             |                          |                              |                                     |                                            |
| Rogowski Coil Size 03 - 200mV/kA            | RC03-200-0250   | 200               | 240   | ±1%       | 250 ± 10    | 170                      | 25                           | 0,2                                 | 125                                        |
| Rogowski Coil Size 03 - 200mV/kA - Shielded | RC03-200-0250-S |                   |       |           |             |                          |                              |                                     | 50                                         |
| Rogowski Coil Size 03 - 400mV/kA            | RC03-400-0250   | 400               | 480   | ±1%       | 250 ± 10    | 90                       | 6                            | 0,2                                 | 85                                         |
| Rogowski Coil Size 03 - 400mV/kA - Shielded | RC03-400-0250-S |                   |       |           |             |                          |                              |                                     | 45                                         |
| Rogowski Coil Size 03 - 600mV/kA            | RC03-600-0250   | 600               | 720   | ±1%       | 250 ± 10    | 70                       | 3                            | 0,2                                 | 80                                         |
| Rogowski Coil Size 03 - 600mV/kA - Shielded | RC03-600-0250-S |                   |       |           |             |                          |                              |                                     | 45                                         |
| RC05-SSS-LLLL-0                             |                 |                   |       |           |             |                          |                              |                                     |                                            |
| Rogowski Coil Size 05 - 150mV/kA            | RC05-150-1000   | 150               | 180   | ±1%       | 1000 ± 20   | 110                      | 28                           | 0,2                                 | 140                                        |
| Rogowski Coil Size 05 - 150mV/kA - Shielded | RC05-150-1000-S |                   |       |           |             |                          |                              |                                     | 20                                         |
| Rogowski Coil Size 05 - 300mV/kA            | RC05-300-1000   | 300               | 360   | ±1%       | 1000 ± 20   | 60                       | 25                           | 0,2                                 | 110                                        |
| Rogowski Coil Size 05 - 300mV/kA - Shielded | RC05-300-1000-S |                   |       |           |             |                          |                              |                                     | 40                                         |
| Rogowski Coil Size 05 - 450mV/kA            | RC05-450-1000   | 450               | 540   | ±1%       | 1000 ± 20   | 45                       | 21                           | 0,2                                 | 80                                         |
| Rogowski Coil Size 05 - 450mV/kA - Shielded | RC05-450-1000-S |                   |       |           |             |                          |                              |                                     | 20                                         |

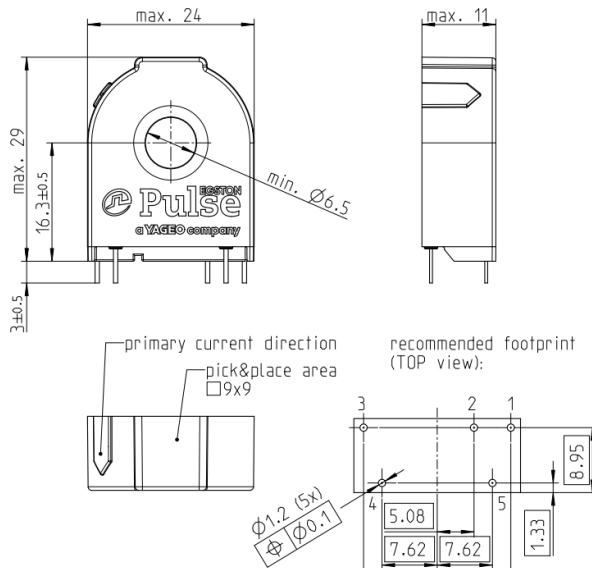
# Rogowski - Current Sensor

RC01-SSS-0 Series  
RC03-SSS-LLLL-0 Series  
RC05-SSS-LLLL-0 Series

## Mechanicals

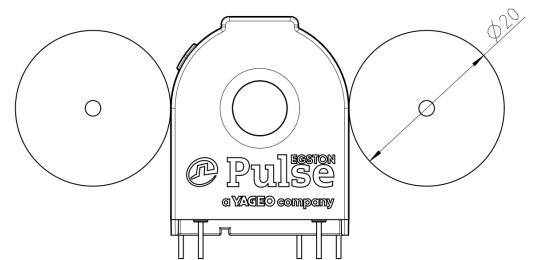
### RC01-SSS-0

Weight: approx. 7g Dimensions in mm



polarity + : Pin 1  
polarity - : Pin 2  
shielding: Pin 3

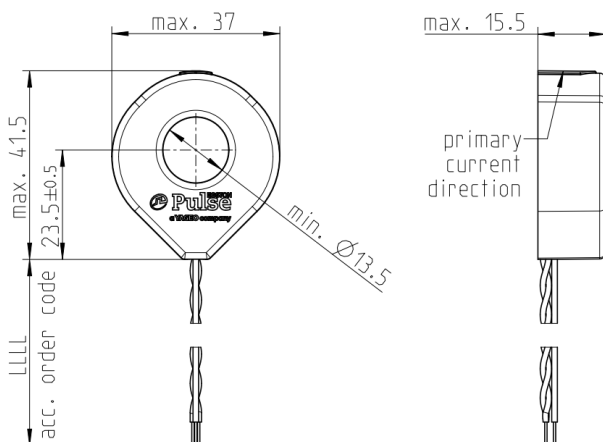
Test setup for external electromagnetic field  
current conductor is close to the housing  
with the specified diameter.



## Mechanicals

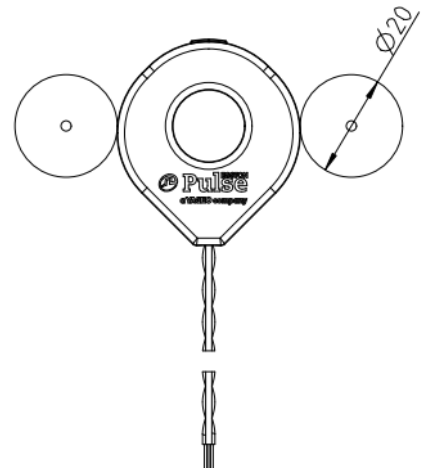
### RC03-SSS-LLLL-0

Weight: approx. 23g (without cable) Dimensions in mm



polarity +: yellow  
polarity -: green  
shielding: blue

Test setup for external electromagnetic field  
current conductor is close to the housing  
with the specified diameter.



# Rogowski - Current Sensor

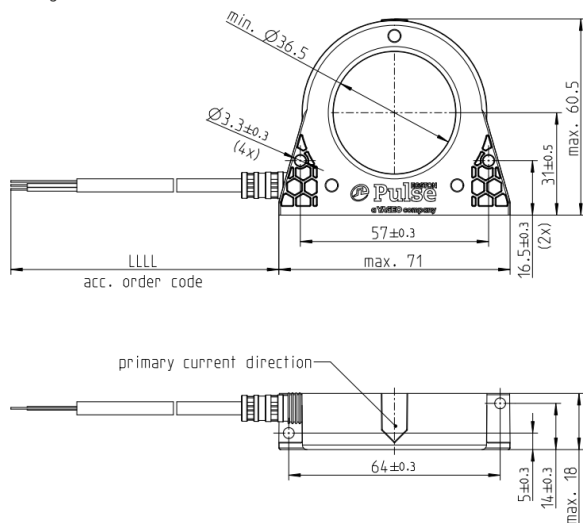
RC01-SSS-O Series  
RC03-SSS-LLLL-O Series  
RC05-SSS-LLLL-O Series

## Mechanicals

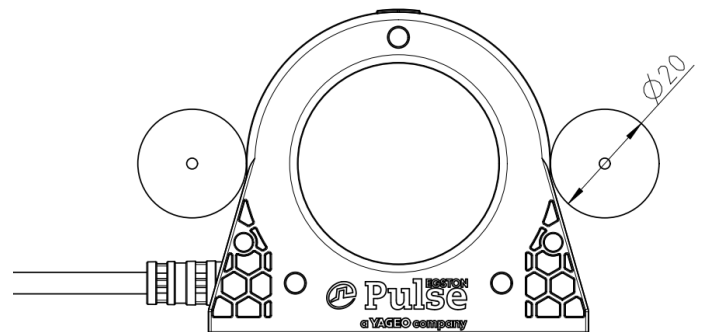
### RC05-SSS-LLLL-O

Weight: approx. 48g Dimensions in mm  
(without cable)

polarity + : red  
polarity - : black  
shielding: blank



Test setup for external electromagnetic field  
current conductor is close to the housing  
with the specified diameter.



## Codification

RCXX-SSS-LLLL-O

RC:  
Rogowski Coil

XX:  
01: Size 01  
03: Size 03  
05: Size 05

SSS:  
Sensitivity in  
mV/kA/50Hz

LLLL:  
optional wire  
length in mm

O: (Options)  
S: with Shielding

### For More Information:

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