

Manual

Surge Counter
SCA-12N200KS

OTOWA
No.G1-325-11-003

This manual describes how to use the SCA-12N200KS surge counter effectively and safely.
Please read before use.

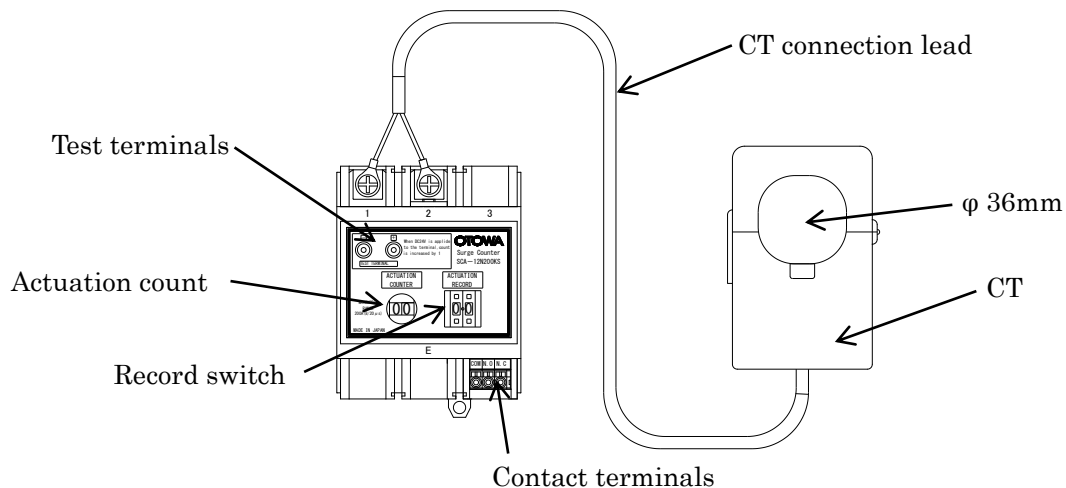
Features

- 1) No power source or battery required.
- 2) Easy installation with the clamp-type CT (no need to cut the ground wire).
- 3) The CT format does not affect the ground wire (no discharge voltage is generated).

Notes on Safety

- 1) Do not apply strong vibration or impact as it may cause a failure.
- 2) The product does not function as an arrester.
- 3) Use the original lead provided to connect the CT unit.
- 4) Avoid proximity to strong magnetism as it may affect the operation of the counter.

Parts

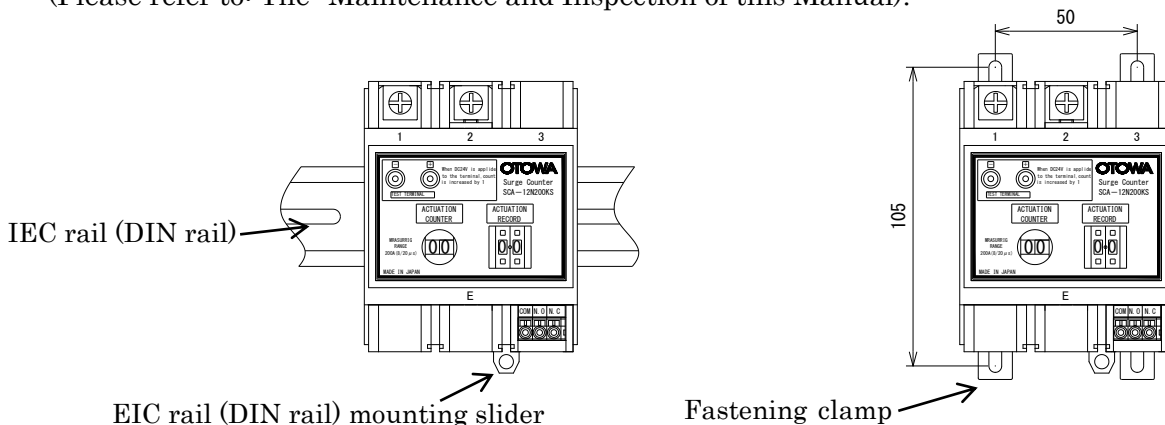


Installation and Wiring

1) Mounting the body

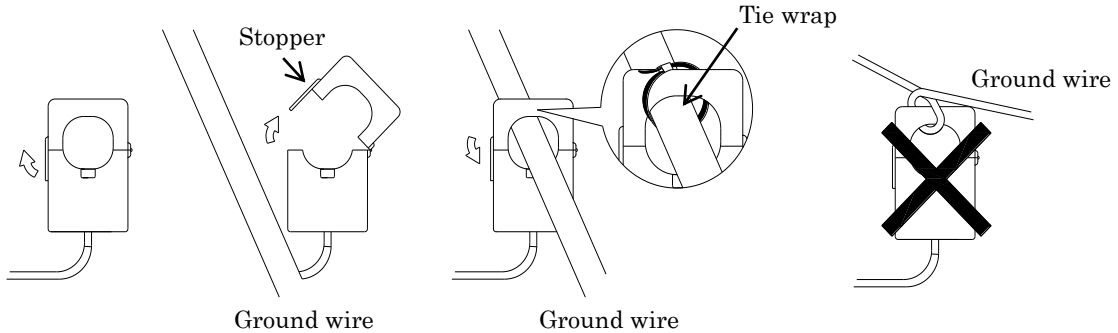
- (1) Mount the body using either a IEC rail (DIN rail) or fastening clamps with screw.
- (2) Set the record switch to "00" if it does not read "00"

(Please refer to: The "Maintenance and Inspection of this Manual").



2) Wiring of CT

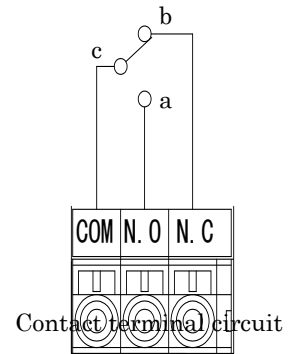
- (1) Clamp the CT to the ground wire that measures the surge current
(There is no polarity for the CT installation).
- (2) Makes sure the CT stoper is engaged properly.
- (3) Secure the CT with a tie wrap, for example.
- (4) Do not secure the CT by wrapping the ground wire.



Operation

- 1) When a surge current (200A and above) flows in the ground wire, the “actuation count” is increased.
- 2) When the count exceeds “99”, the counter starts counting from “00” again.
- 3) There is no display reset (0 reset) function for the “actuation count”.
- 4) The “contact terminals” switch when the count is incremented.

Rated voltage/current	AC125V/0.5A, DC30V/2A
Contact movement	a Contact (N.O-COM)...normal: OFF, during count: ON b Contact (N.C-COM)...normal: ON, during count: OFF
Contact hold time	5 ms
Applicable wire size	Stranded wire...0.2mm ² ~ 1.25mm ² Solid wire... φ0.4mm ~ φ1.2 mm



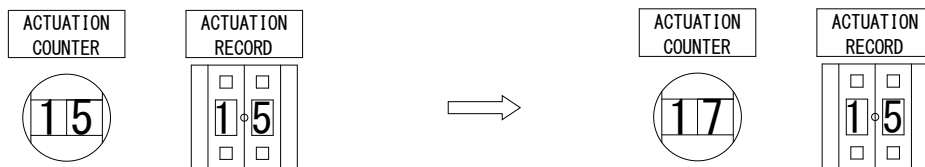
Maintenance and Inspection

1) Operation Check

When DC 24V (DC 23V ~ DC 25V) is applied to the “test terminals”, the “actuation count” is increased by 1, and the “contact terminals” are switched. (Note the polarity of the test voltage.)

2) Actuation Record

The “record switch” can be used to note the actuation count.



Set the “record switch” to the display on the “actuation

During a subsequent maintenance, the increase in the count from the previous maintenance can be seen.
(Example shows two actuations.)

- 3) The “record switch” has an ascending (UP) and descending (DOWN) button for each of the two digits.
Change the values by pressing the buttons.