

LIGHTNING STROKE COUNTER - CCF 2004

General description

This counter, which is connected in series to a lightning down conductor, records each passage of a lightning current between 0,15 kA and 150 kA.

This counter has a Normally Open contact of remote control.

This product is delivered with two connectors for 30 x 2 mm flat conductor. Connectors HRC 8010 (not included) should be used for 8 to 10 mm diameter round conductor.

Operation

Connected in series to the down conductor, this counter uses the current induced in a secondary circuit to activate an electromechanical counter.

Its development includes in situ tests and trials in the High Voltage Laboratory.

Electrical Characteristics:

- Minimum trip threshold : 0,15 kA (8/20 μ s)
- Maximum permissible current: 150 kA (8/20 μ s)

Mechanical Characteristics:

- Size: 49 mm x 62 mm x 121 mm
- Weight: 410g
- Watertight protection: IP 65
- Operating temperature: - 20°C to + 60°C
- Down Conductor Connection: Round tinned copper 10mm diameter
- In accordance with the EMC applicable directive

Fixing

The CCF 2004 counter can be fixed to:

- a wall, using 2 screws of 4mm diameter, or 2 pop rivet of 4mm diameter
- a steel section, using a 20 mm stainless steel collar.

Using

Each user of CCF 2004 has to register the date of first use and to verify it periodically.

The counter is delivered with an initial display of 000.

Fitting

The CCF 2004 counter is connected in series to the down conductor at a height of 2 m above the ground, over the control junction (Extract of the French Rule NF C17-102).

Remote Control

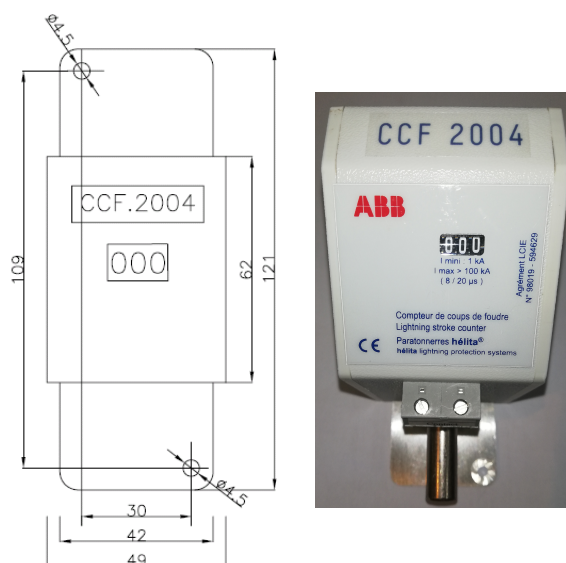
The remote control is a fugitive normally open contact that closes during the current time. This fugitive closing has to be memorised in a circuit or connected to an alarm radio remote circuit.

Test Certification

The electrical characteristics of this product have been certified by the LCIE laboratory (Test certificate N° 366 77 010 dated 21-12-2006 – Tested in accordance with the NF C 17 106 Rule from 150 A to 110 kA)

Final Test

Each lightning stroke counter is assembly with an electromechanical counter displaying 997 and positioned at 000 by applying 3 electrical of 1kA pulse that certified the good operation of the counter



Reference	Designation	Weight (Kg)
CCF 2004	Lightning stroke counter delivered with 2 flat conductor connectors)	0.56
HRC 8010	Connector for round conductor 8 to 10 mm diameter in line	0.16

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