

Short-Circuit Indicator Rotor Series

- Mechanical
- Manual reset

Principle of operation

Every conductor through which an electric current is flowing is surrounded by a magnetic field. At currents higher than the trip current ($\geq I$ trip current) a magnetic field strength H is induced sufficient to overcome the retaining force of a stop spring moving the rotor to the tripped position.

The reset of this indication has to be done after viewing with a hot stick.

Design

The illustration to the right shows a typical Short-Circuit Indicator with rotor assembly. It consists of a yoke (1) which is attached to the indication unit (2). The pivoted rotor (3), with reset pin (4) is painted two colours, red/black, one for ‘tripped’ and one for ‘non-tripped’ indication. Red indicates always the ‘tripped’ condition.

Technical Data	
Trip current	Optional factory set trip levels (between approx. 150 A and 2000 A)
Accuracy	±10 %
Response time	100 ms \triangleq 5 full waves upon trip level
Material	Housing and fixing screws of polyamide. Yoke made of sintered metal, powder-coated.
Dimensions of display unit	40 x 40 x 18 mm

Order No.	I_{min}	for \varnothing mm
20-0101-001	150 A	8-16
20-0102-001	200 A	16-20
20-0103-001	200 A	20-30
20-0104-001	200 A	30-40
20-0105-001	200 A	40-50
20-0106-001	300 A	50-60
20-0108-001	300 A	60-80

Order No.	I_{min}	for
20-0120-001	200 A	30 x 4 - 40 x 10
20-0121-001	300 A	45 x 4 - 60 x 12
20-0122-001	150 A	20 x 4 - 25 x 6
20-0123-001	150 A	25 x 4 - 30 x 6

Order No.	I_{min}	for
20-0110-001	200 A	30 x 4 - 40 x 15

Installation instructions

If mounting on a single-conductor plastic-insulated cable, pass earth wire back to the protective ground through the yoke of the Short-Circuit Indicator.

All Short-Circuit Indicators are suitable for subsequent mounting by easily removing the indication unit from the yoke.

