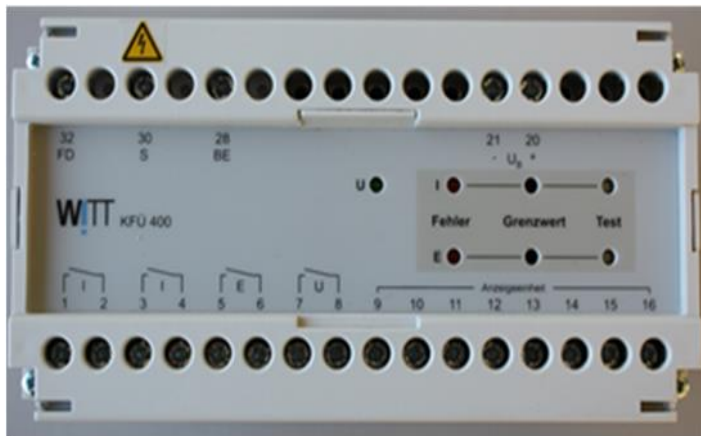


WITT CM 4 – Cable Monitoring



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Application

WITT CM 4 is a self-resetting cable monitoring device for the detection of cable errors.

Description

The device is used for insulation monitoring of cable systems in DC Systems. The cable monitoring device monitors the standard insulation between conductor and shield, shield and conductor as well as the additional monitoring of interruptions of the shield.

There are two potential-free changeover contacts available for the reporting. The device is integrated in a plastic housing that is made for the mounting on top-hat or wall railways. The optional, external display unit makes it possible to depict the critical- and insulation resistance.

Function

To obtain defined conditions, electrical resistances must be switched parallel to the supervised insulation sections. These electrical resistances are in such a dimension that the nominal shield standing voltage is restricted to 40 V and the measuring current may not exceed approx. 1 mA through the shield. The interruption of the shield leads either to the report "ground fault" (shield-ground) or "inner fault" (conductor-shield).

In case of failure of the track voltage this is signalled at a potential-free contact.

General Data

Supply voltage	24 - 60 VDC
Power consumption	max. 6 VA
Temperature range	-20 ... 60 °C
Type of protection	IP 40
Track voltage	500- 900 VDC
Shield voltage (at DC 750 V)	approx. 42 V
Measurements (B x H x T)	150 x 73 x 70 mm

Response Values

Adjustable insulation fault:

Conductor – Shield

350 – 1500 kOhm

Shield – Earth

10 – 400 kOhm

Response time:

Conductor – Shield fault

ca. 1 s

Shield – Ground fault

ca. 10 s

Output

Operating

1 potential-free contact

Shield – Earth fault

1 potential-free contact

Conductor – Shield fault

2 potential-free contacts

Display

Operating

green LED

Shield – Earth fault

red LED

Conductor – Shield fault

red LED

Insulation rating (limit value and actual value)

Option external paragraph display

Dimensions

