



***Elpro***

# KUB CABLE MONITORING



# TECHNICAL SPECIFICATIONS

Supply voltage (cable voltage / RL)	+430...+1000 VDC -430...-1000 VDC
Maximum power consumption	10 W
Adjustment range for internal insulation fault	200 kOhm 1,6 MOhm
Adjustment range for external insulation fault	20 kOhm 500 kOhm
Time delay - detection of internal insulation fault	5s
Time delay - detection of internal insulation fault (short circuit)	max. 2s
Time delay - detection of external insulation fault	20s
Relay output for U_CABLE <Rki, <Rka Umin: Umax:  Imin: Imax: Minimum switching power Maximum switching capacity (AC1)	2 changeover contacts each  24 V 400 VAC / 250 VDC 100 mA 10 A 2,4 W 2500 VA (10 A / 250 V)
Contact configuration	Available separately
Housing material	ABS, grey
Dimensions (W × H × D)	152/202/90 mm
Degree of protection	IP 31
Ambient temperature	-25°C bis 40°C
Mounting	Snap-on mounting on DIN rail TS35

## ADVANTAGES

- Suitable for networks with positive and negative busbars
- Power supply directly from the conductor voltage
- Precise resistance calculation of internal and external insulation
- Cable fault indication directly on the device
- Short-circuit detection (conductor-shield) with fast tripping (max. 2 s)
- Two test buttons for functional testing
- Detection of cable shield interruption (external resistor required)
- Fiber optic interface (FO) for transmission of parameters and measured values to SGBA-ZE or display

## FUNCTION OF THE KUB

The KUB is a compact snap-on module in an insulated housing for monitoring cable systems in DC railway networks with a nominal overhead line voltage of 750 V.

The KUB monitors the insulation resistance between conductor and shield, shield and earth, as well as shield continuity. Monitoring is performed by precise