

Tram switch heating regulator, remotely controlled

Type: ANCI 600 – 2X900W

DESCRIPTION

The device is used for automatic regulation of the heating of tram switches. One regulator controls the heating of one switch, or two rails, or two heaters of those rails. The heating is switched on at the selected ambient temperature of the switch, and optionally also of the rails. The heating is switched off at the selected ambient temperature, and optionally the rails. In cases where there is no snowfall and a dry environment, the switching temperature of the switchboard heating can be adjusted even at negative temperatures. All switchboard heating regulators in a city are remotely monitored and controlled via GSM. The central computer screen shows the complete tram network of the city with marked crossings where the tram switches are located. By selecting a specific intersection, a map of that intersection is displayed with the marked locations of individual regulators. By selecting a certain controller, the status of that controller is displayed. It can be read: mains voltage, regulator input current, regulator input current, ground leakage current (fault), switch ambient temperature. In the event of any failure on that regulator, a light and sound signal will appear on the screen of the central computer indicating the location of the switch where the failure occurred. erature, heater factory numbers, crossover location name, switch identification, regulator factory number.

The device consists of an input filter, overvoltage protection (surge), overcurrent protection, AUX converter, IGBTs for switching on and off the heater, driver, measuring voltage members, lemning current members (LEM), microcomputer, communication unit and thermal probe.

TECHNICAL DATA

Type:	ANCI 600 – 2X900 W	ANCI 750 – 2X900 W	ANCI 900 – 2X900 W
Input voltage:	600 VDC	750 VDC	900 VDC
Input voltage deviations:	450 VDC - 800 VDC	600 VDC - 950 VDC	700 VDC – 1100 VDC
Overvoltage resistance:	1.200 VDC	1.300 VDC	1.400 VDC
Resistance to overvoltage peaks (surge):	1.700 VDC	1.900 VDC	2.200 VDC
Input protections:	Overvoltage, over current		
Output 1:	900 W, nominal / 5 A, maximum		
Output 2:	900 W, nominal / 5 A, maximum		
Heater switch-on temperature	2 do 4 °C, adjustable		
Heater switch-off temperature	5 do 6 °C, adjustable		
Measurements:	Uin, Iloads(+), Ireg(-), T		
Remote readings on a PC	Voltage, currents, temperature, fault, location, factory numbers		
Notification of failure situations	Regulator, heater, cable, DC network Regulator, heater, cable, DC network		
Remote controls:	Turn-on, turn-off		
Remote communication	GSM		
Protect the output:	Overcurrent		
Thermoprobe:	Digital electronic probe		
Dimensions (w x h x d)	230 x 550 x 120 mm		
IP protection	IP55		
Case	plasticized stainless steel		



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