Electronic amplifier relays produce a switching signal with falling below or exceeding at a certain electrical resistance value at the signal input terminals. The sensor attached there is only electrically very small loaded, so that these devices are very useful in numerous instrumentation applications:



- *Thermostat control with PTC/NTC resistors*
- *Contact protective relays*
- *Sensor circuit amplifiers*
- *Twilight switches with external LDR resistors*
- *Air humidity measurement*

2

Function / Installation

If the bridge Y1-Y2 is installed, the DSTC switches when falling below an electrical resistance value between the connections 7-9.

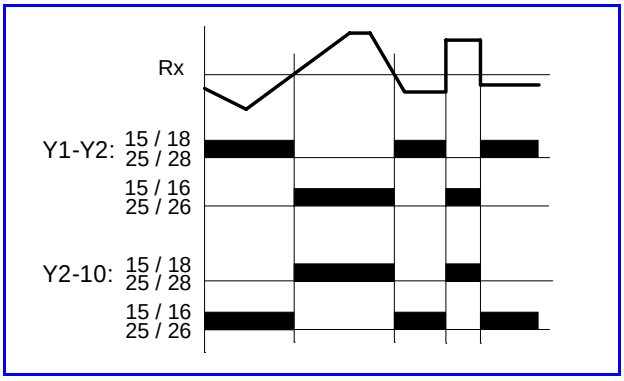
The trigger level is adjustable at the front potentiometer within a wide range. If the connections 8-10 are bridged, the relay contacts switch into self-holding when one time falling below of the measured resistance value appears. The holding wire should be shielded, shield connection at terminal 9.

The switching function can be inverted by setting the bridge Y2-10. In this condition the relay switches on with exceeding at an electrical resistance value between the connections 7-9. At bridged terminals 8-10, self-holding takes place after one time exceeding of the measured resistance value.

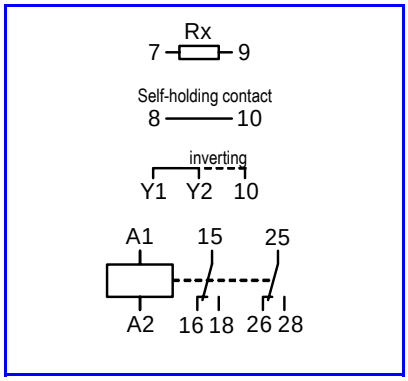
At the devices with AC-voltage supply the measuring circuit is galvanically separated from the operating voltage, but not at the DC24V types.

The devices provide two change-over contacts and are integrated into a standard housing for 35mm mounting rail housing.

Order-No	Type
404200	DSTC AC230V, 100kOhm
404201	DSTC AC230V, 2MOhm
404202	DSTC AC115V, 100kOhm
404203	DSTC AC115V, 2MOhm
404204	DSTC DC24V, 100kOhm
404205	DSTC DC24V, 2MOhm



Contact configuration

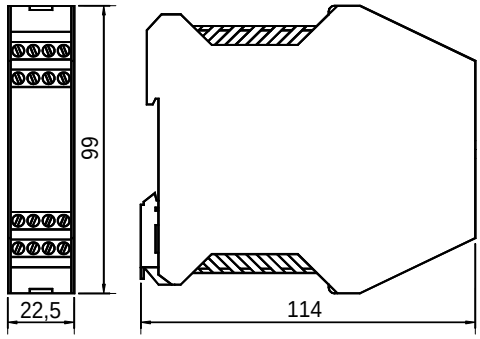


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Electronic Amplifier Relay DSTC

Specifications	
Operating voltage U_N	AC 230V, 50-60Hz AC 115V, 50-60Hz DC 24V
Voltage tolerance	85..110% of U_N
Power consumption	AC approx. 0.5VA / DC approx. 0,7W
LEDs	yelllow: stand by green: contacts 15-18 / 25-28 switched
Protection	IP20
Measurement Input 7-9	DC12V: max. 2,5mA at 1kOhm adjusted sensitivity max. 0,1mA at 100kOhm adjusted sensitivity
Hysteresis	approx. 10%
Adjusting range	1,0 - 100kOhm; 20kOhm - 2MOhm
Repeat accuracy	+/- 1.0%
Switching capacity	AC 250V: max 8A, max 2000VA DC: 2A bei 24VDC
Contact life	mechanical $2x10^7$ operations
Temperature range	-20^0 - + 60^0C (dew-free)
Dielectric strength	4kV DIN VDE 0110-1:1997-04
Weight	approx. 180g
Installation position	any
Mounting	DIN-rail DIN EN 50022-35



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