

AC-Electronic Current Transformer STWA1S

with transistor-output

STWA1S
Electronic current trans-
former
with fixed switching-point



The STWA1S has an integrated electronic with transistor-output. The switching point is 2A. Above app. 2 A the output transistor is switched on (LOW), below app. 1.5 A it is off (HIGH).

The conductor is simply pushed through the transformer. Multiple loops reduce the switching point correspondingly, for instance to 0.5 A with four loops. A supply voltage is not required.

Application: The STWA1S is used where current flow is to be detected, with the exact value of the current either known from the power consumption of the connected consumer or does not

matter for the evaluation.

For simultaneous evaluation of the current flow in several conductors the STWA1S device can be connected in series (AND circuit, pay attention to the voltage drop) or in parallel (OR circuit, pay attention to the leak current).

- isolated transistor-output max. DC 40 V/40 mA
- output can be directly connected to the digital input of a PLC
- integrated diode for reverse voltage protection
- 2-wire-connection, 1 m
- no supply voltage required
- transformer and electronic unit enapsulated in a climate-proof housing
- plug-in current transformer (Ø 11 mm)
- max. overload 100 A continuously, 300 A / 10 s

Order-number

S225195

Switching point at $T_u = 25^\circ\text{C}$
Switching-back Point
Repeat accuracy
Temperature dependence
Overload cap. continous / 10s

AC 2 A $\pm 25\%$
AC 1,5 A $\pm 25\%$
 $\pm 5\%$
< 0,06%/K
100 A / 300 A

Output voltage/current max.
Voltage drop (ON)
Leak current (OFF)
Switch-on /switch-off delay

DC 40 V / 40 mA
max. 3 V
max. 0,6 mA
app. 50 / 200 ms

nominal frequency/ operating
range
error

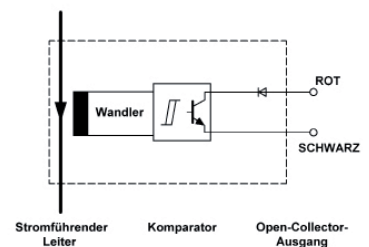
50 Hz/ 30...70 Hz
 $\leq 1\%/Hz$

rated ambient temperature ran-
ge

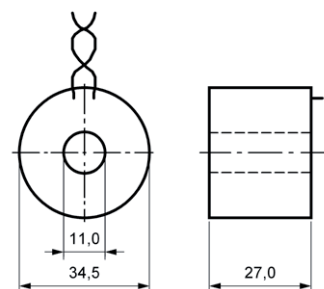
0...55°C

Housing
Dimensions (Ø x H)
Diameter for conductor
Weight

Design S
34,5 x 27 mm
11 mm
app. 60 g



Dimension illustrations



Electronic current transformer STWA1S