AC-Electronic Current Transformer STWA1S
with transistor-output

STWA1S
Electronic current transformer
with fixed switching-point

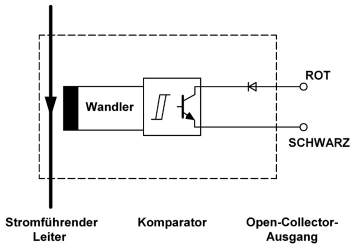
The STWA1S has an integrated electronic with transistor-output. The switching point is 2 A. Above app. 2 A the output transistor is switched on (LOW), below app. 1.5 A it is off (HIGH).
The conductor is simply pushed through the transformer.Multiple loops reduce the switching point correspondingly, for 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).

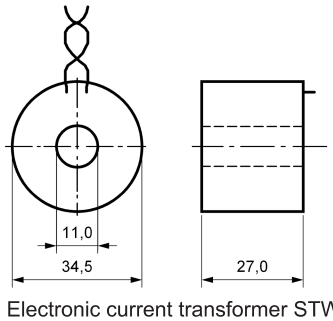
- isolated transistor-output max. DC 40 V/40 mA
- output can be directly connected to the digital input of a PLC
- integrated diode for reverse voltage protection
- 2-wire-connection, 1 m
- no supply voltage required
- transformer and electronic unit enapsulated in a climate-proof housing
- plug-in current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

Order-number **S225195**

Switching point at Tu = 25°C	AC 2 A +20/-40%
Hysteresis	approx. 6%
Repeat accuracy	± 5%
Temperature dependence	< 0,05%/K
Overload cap. continous / 10s	100 A / 300 A
Output voltage/current max.	DC 40 V / 40 mA
Voltage drop (ON)	max. 3 V
Leak current (OFF)	max. 0,6 mA
Switch-on /switch-off delay	app. 50 / 200 ms
nominal frequency/ operating range	50 Hz/ 30...70 Hz
error	≤ 1%/Hz
rated ambient temperature range	0...55°C
Housing	Design S
Dimensions (Ø x H)	34,5 x 27 mm
Diameter for conductor	11 mm
Weight	app. 60 g



Dimension illustrations



Electronic current transformer STWA1S