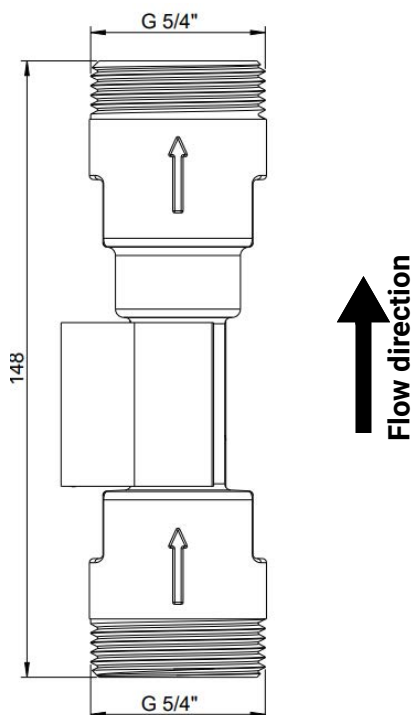




Flow switch

The STST flow switch is available in 2 versions:



STST01DC-5/4" DC version

as a signal generator to standard controller inputs up to 30 V= $\sim$

STST03AC-5/4" AC version

for direct switching of circulation pumps on the 230 V $\sim$ mains up to 0.5 A (permanent load), minimum load of **only 2 W** required.

The STST03AC flow switches have been optimised and approved for high efficiency pumps.

The STST03AC also worked on asynchronous pumps (up to 110 W) in the laboratory.

When used with other consumers (relays, valves, etc.), express approval from Technische Alternative RT GmbH is required.

Installation position: Vertically, in the cold water line

When installing the flow switch, make sure that the **arrows on the brass part point upwards** as shown in the figure. **Flow** must be through the sensor from **bottom to top** as indicated by the arrow.

Technical data

Response quantity:	0.8 l/min
Temperature range:	-10 to +80 °C
Max. operating pressure:	10 bar
Pressure drop at	
10 l/min:	0.014 bar
50 l/min:	0.088 bar
100 l/min:	0.346 bar

Installation position: Vertical

Cable length: 2 m

Materials used: Brass CC770S, plastic NORYL 731S-701-1977

Drinking water approval: UBA-compliant (Environment Agency Austria) and ÜA-registered (compliance Austria)

IP rating: IP65

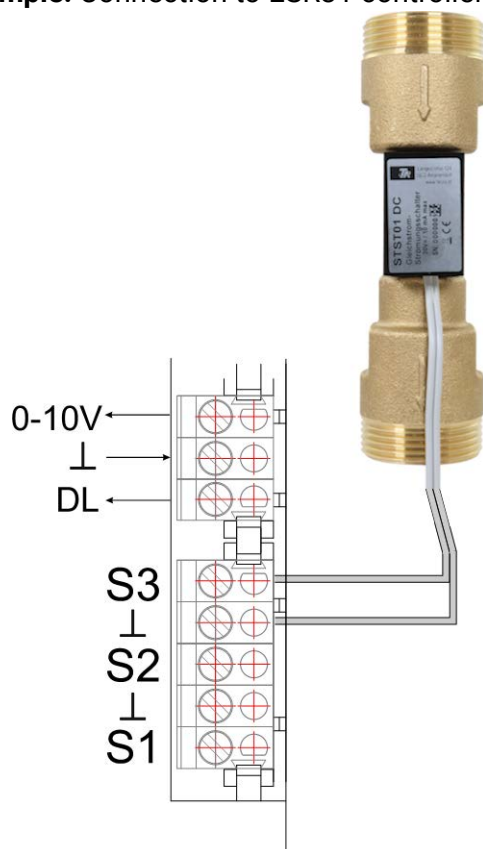
Max. breaking capacity

STST01DC:	30 V= $\sim$ / 10 mA
STST03AC:	250 V $\sim$ / 0.5 A

Electrical connection

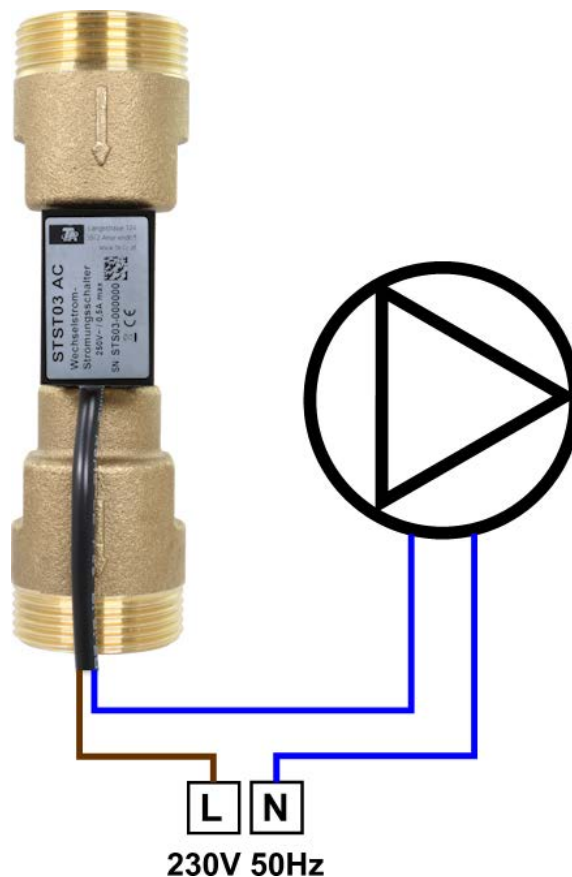
STST01DC

Example: Connection to ESR31 controller



Connection is always established to a sensor input and the sensor earth.
The polarity of the connections is reversible, there is no required polarity to be observed.

STST03AC



230V 50Hz
The polarity of the connections is reversible, there is no required polarity to be observed.

Compliant with the following standards:

EN 61000-6-3: 2007
+A1: 2011
+ AC2012

Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial environments

EN 61000-6-2: 2005
+ AC2005

Electromagnetic compatibility (EMC) – Part 6-2
Generic standards – Immunity for industrial environments

EN 50581: 2012

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

In addition, the flow switch complies with the UBA (Environment Agency Austria) guideline with regard to drinking water and is ÜA certified (compliance Austria).



Subject to technical modifications as well as typographical and printing errors. These instructions are only valid for devices with the corresponding firmware version. Our products are subject to constant technical advancement and further development. We therefore reserve the right to make changes without prior notice.

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