Technische Alternative RT GmbH

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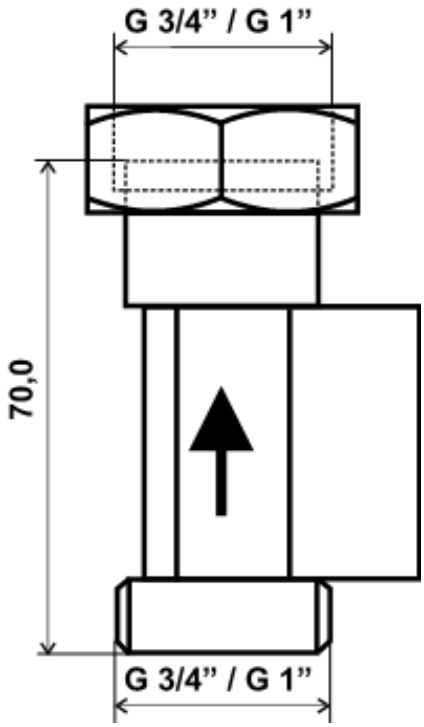
STS01-DC
STS03-AC

Vers. 1.14.2

Flow switch

The STS flow switch is available in 4 versions:



STS01DC-1"
STS01DC-3/4" DC version (1" or ¾" thread)

as a signal generator to standard controller inputs up to 30 V=/ ~, thread G 1"

STS03AC-1"
STS03AC-3/4" AC version (1" or ¾" thread)

for direct switching of circulation pumps on the 230 V~ mains up to 0.5 A (permanent load), minimum load of **only 2 W** required, thread G 1"
The STS03AC flow switches have been optimised and approved for high efficiency pumps.

The STS03AC 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 **hexagon nut points upwards** as shown in the figure. The water must flow through the sensor from **bottom to top** as indicated by the arrow.

The detector (black plastic part) can be fitted on the brass part in any direction.

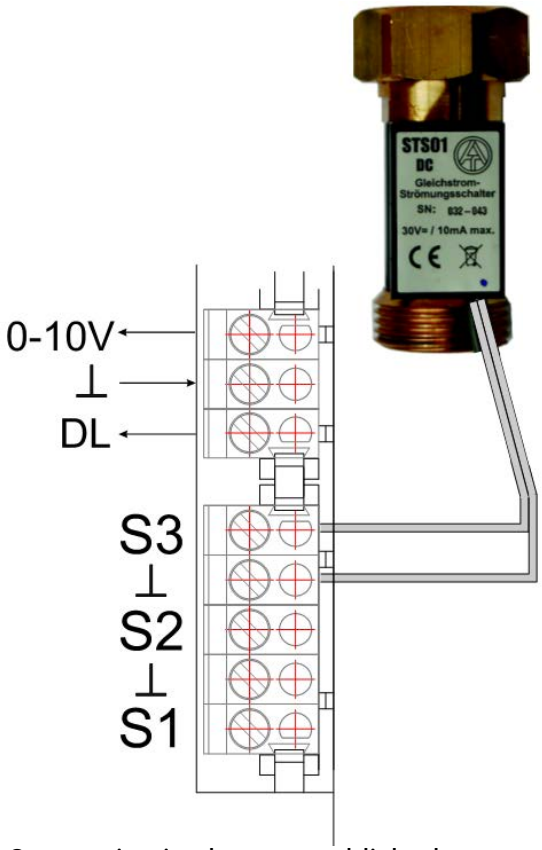
Technical data		
Response quantity:		< 2 l/min typically 1.3 l/min
Temperature range:		-10 to +80 °C
Max. operating pressure:		10 bar
Pressure drop at	1000 l/h: 2000 l/h: 3200 l/h:	0.1 bar 0.4 bar 1 bar
Mounting position:		vertical +/- 10°
Cable length:		2 m
Materials used:		brass CW617N, plastic NORYL 731S-701-1977
Drinking water approval:		KTW / W270 for the individual parts
IP rating:		IP65

Max. breaking capacity	
STS01DC:	30 V=~ / 10 mA
STS03AC:	250 V~ / 0.5 A

Electrical connection

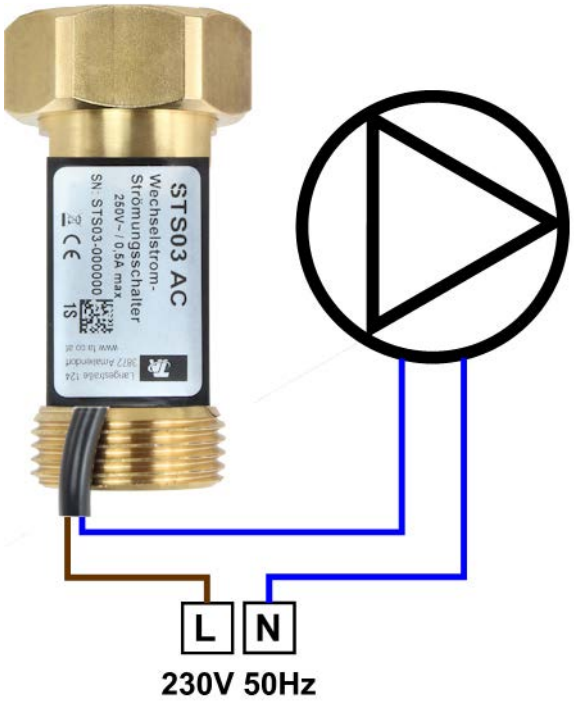
STS01DC

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.

STS03AC



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).

R-15.2.3-21-17052
WIEN-ZERT