Technische Alternative RT GmbH

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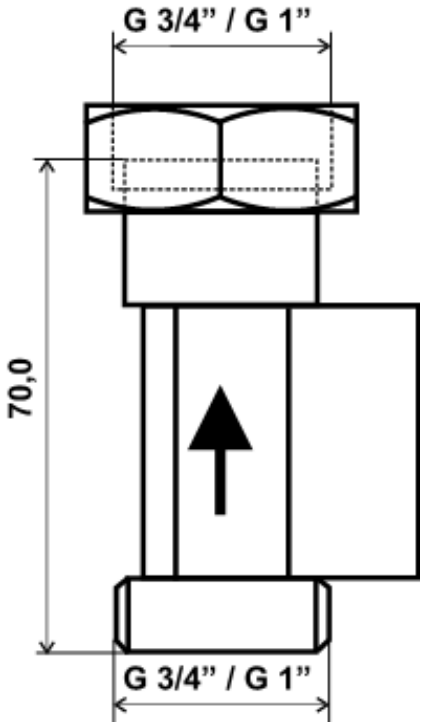
STST01-DC
STST02-AC

Vers. 1.00

Flow switch

The flow switch STS is available in four types:



STST01DC-1" Direct current type

as signal transducer to standard controller inputs up to 30 V=/ ~, threads G 1"

STST01DC-3/4" threads G ¾"

STST02AC-1" Alternating current type

for directly switching of circulating pumps in 230V~ mains up to 1,5A, minimum load of only 2W required, threads G 1"

STST02AC-3/4" threads G ¾"

The **STS02AC** flow switches are **only suitable for high efficiency pumps**, but **not for asynchronous motor pumps (standard pumps of an older design)**, time delay relays or time relays of any type or design.

Mounting position: Vertical

When mounting the flow switch, ensure **that the hex nut faces upwards** as shown in the figure. The sensor must be **flown through bottom-up** according to the arrow.

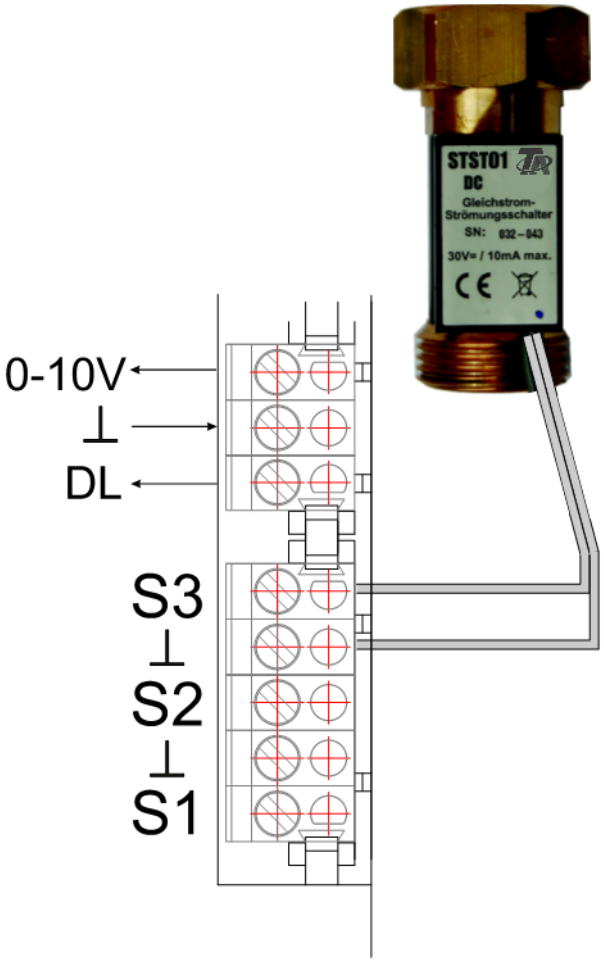
The detector (black plastic part) can be placed on the brass part in an user-defined direction.

Technical data			**max. breaking capacity**	
Response quantity:		Any flow rate (a pressure surge in the pipe may cause the STST to respond)	STST01DC:	30V=~ / 10mA
Temperature range:		-10 to +80°C	STST02AC:	250V~ / 1,5A
Max. operating pressure:		10 bar		
Pressure loss at	1000 l/h:	0,1 bar		
	2000 l/h:	0,4 bar		
	3200 l/h:	10 bar		
Mounting position:		vertical +/- 10°		
Cable length:		2m		
Materials used:		brass CW614N, plastic NORYL 731S-701-1977		
Drinking water approval:		KTW / W270 for the individual components		
IP rating:		IP65		

Electrical connection

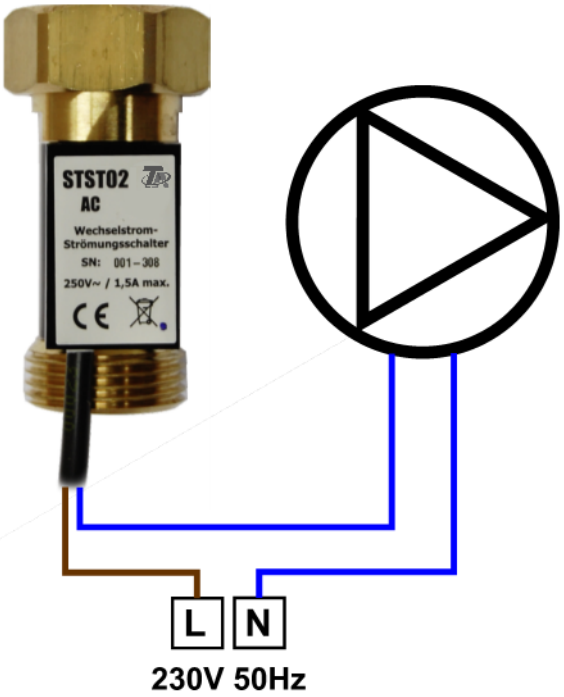
STST01DC

Example: Connection to ESR31 controller



Connection is always established to a sensor input and the sensor earth.
The polarity of the connections is reversible,

STST02AC



The polarity of the connections is reversible, there is no required polarity to be observed.

Employed 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.

Subject to technical modifications.