STAUFF®

Level-Temperature Switches SLTS Series

General

The Stauff Level / Temperature Switches (SLTS-series) are unique in their design and modularity. One of the greatest advantages is the ability of the end-user to adjust the switching level. The internal support wire carrying the level and temperature switches makes it a simple and quick job to change the level switch position. See the drawings on the next page for the max and min level switch points and the total available switching range. This design permits changing the level switch function from Normally Closed (NC) to Normally Open (NO). 12" and 18" stem lengths are standard. Custom lengths are available upon request.

Contact Life Time

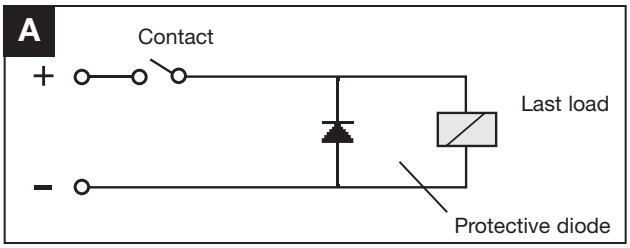
Due to their design Reed contacts have a very high life expectancy. However, it is worthwhile to note the following information.

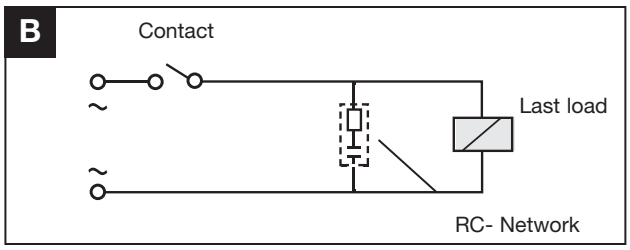
Contact protection

To reduce the high reverse voltage produced when a reed switch opens, the following contact protection can be applied.

a) DC voltage: a diode parallel to the load, see figure A

b) AC voltage: an RC-network parallel to the load, see figure B and table below.

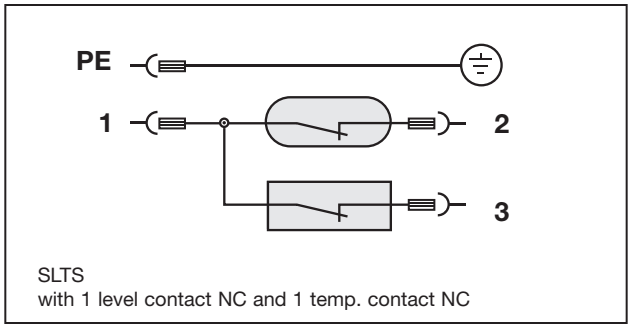




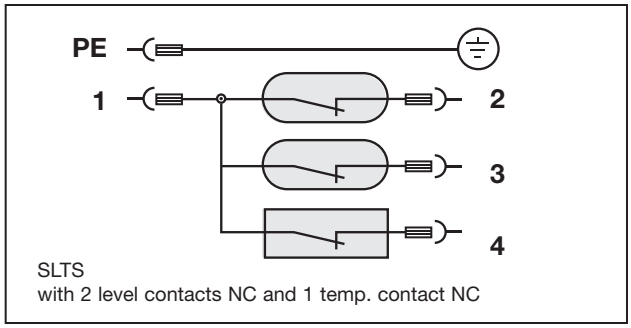
VA	10	25	50	75	100
Open contact voltage V	R/Ohm - C/µF	R/Ohm - C/µF	R/Ohm - C/µF	R/Ohm - C/µF	R/Ohm - C/µF
24	22 – 0,022	1 – 0,1	1 – 0,47	1 – 1	1 – 1
48	120 – 0,0047	22 – 0,022	1 – 0,1	1 – 0,47	1 – 0,47
110	470 – 0,001	120 – 0,0047	22 – 22	22 – 0,047	22 – 0,1

Wiring Diagram

Please refer to the following connection diagrams and the relevant data in the specification sheets.



SLTS
with 1 level contact NC and 1 temp. contact NC



SLTS
with 2 level contacts NC and 1 temp. contact NC

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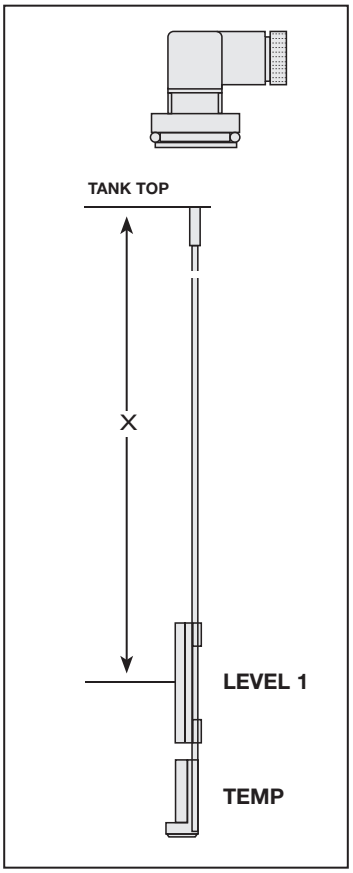
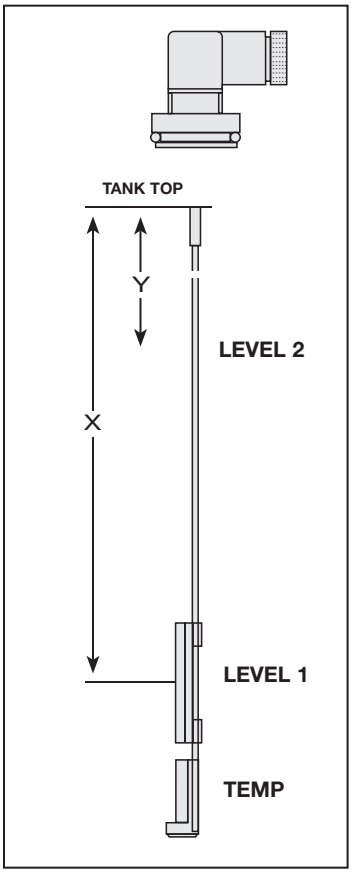
Dimensional Data

Standard Factory Settings For Level Switch Position			
	Option 1: Low Level Only (from tank top to switch position)	Option 2: High and Low Level (from tank top to switch position)	
SLTS Type	X (**in** / mm)	X (**in** / mm)	Y (**in** / mm)
SLTS 12	**10.5** / 266	**10.5** / 266	**2.6** / 66
SLTS 18	**16.5** / 418	**16.5** / 418	**2.6** / 66

Option 1



Option 2



Ordering Code

SLTS 12 - 140 - 2 - B12 - G115

Type	
SLTS	Level-temperature switch

Stem Length	
12	305 mm (12")
18	457 mm (18")

Switching Temperature	
140	60°C / 140°F
158	70°C / 158°F
O	without temperature switch

Voltage (Volt AC/DC)	
G115	115 Volt max (for thread N16 only)

Thread	
B12	G 3/4 (on request)
N16	1 NPT (standard)

Number of Level Switches	
1	1 level switch (L, H)*
2	2 level switch (L, H)*

* please indicate level position(s): L = low, H = high

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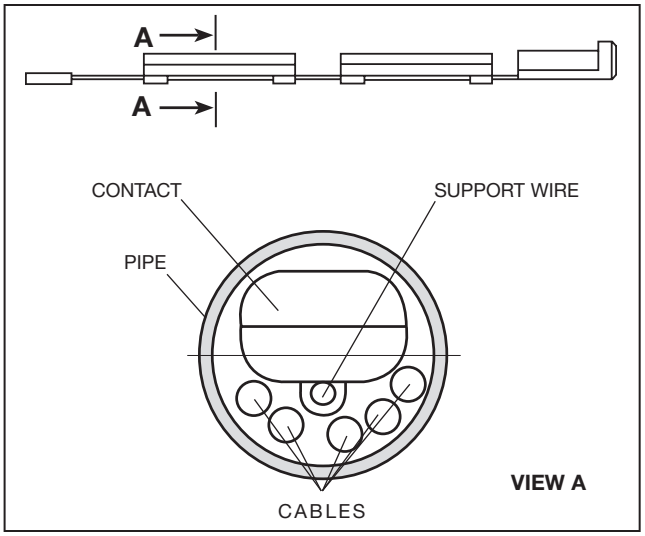
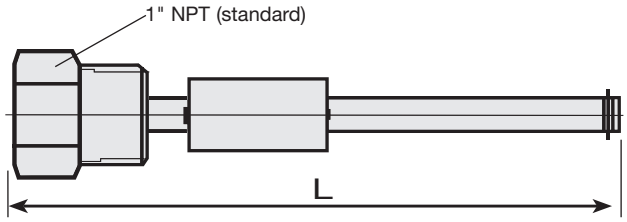
Specifications

- Brass Stem, Plastic float
- Compatible with mineral oils and petroleum based fluids
- Switches normally closed (NC)
- Max. operating temp 80˚C (176°F)
- Max. operating voltage 115V
- Max. current level contact 0.5A
- Max. current temp contact 2.0A
- Contact load level contact 10VA
- Hysterisis 18˚F

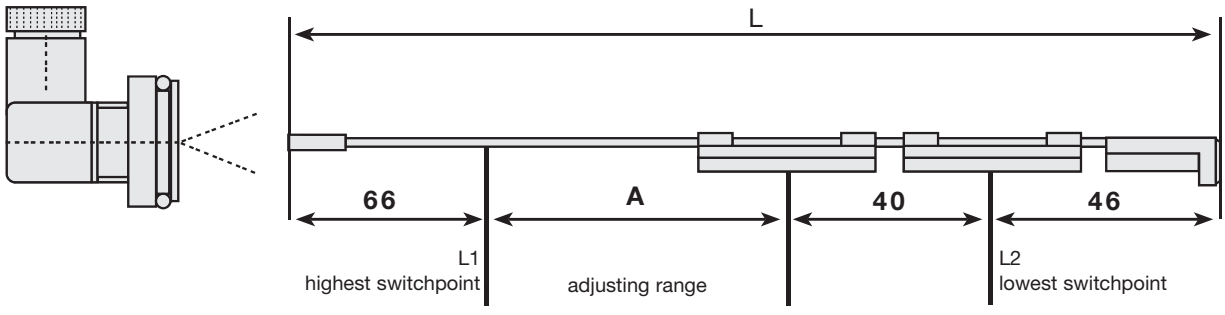


Options

- Any combination of three level temperature contacts
- Easy adjustable switch level
- Wide range of temperature switches
- Custom sizes, configuration and materials available upon request



Type	L
SLTS - 12	**12"** (305mm)
SLTS- 18	**18"** (457 mm)
SLTS - SL	Custom Length



Type	L	A
SLTS - 12	**12.3"** (312mm)	**6.3"** (160mm)
SLTS - 18	**18.3"** (464 mm)	**12.3"** (312 mm)
SLTS - SL	Custom Length	Custom Range