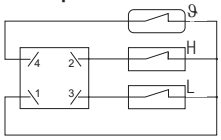
A

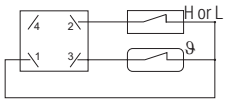
Level-Temperature Switch Type SLTS

Wiring Scheme

two level contacts
one temperature contact

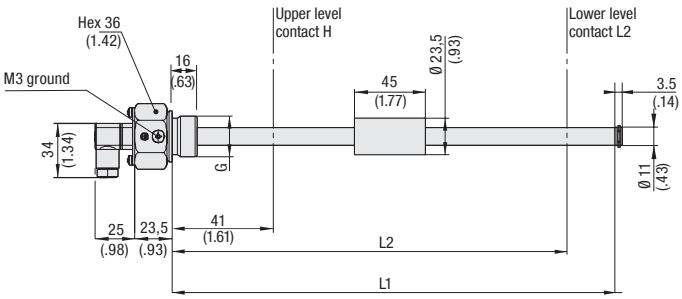


one level contact
one temperature contact



Schemes for float in low position

Pin assignment at empty reservoir (default setting at point of delivery)



Order Codes

SLTS	-	12	-	O	-	H41	-	L251	-	B12	-	G048	-	M12
①		②		③		④		⑤		⑥		⑦		⑧

① Series and Type

Level-Temperature Switch	**SLTS**

② Stem Length

L1: 305 mm / 12 in L2: 251 mm / 9.88 in	**12**
L1: 457 mm / 18 in L2: 403 mm / 15.87 in	**18**

③ Switching Temperature

Without temperature switch	**O**
+60 °C / +140 °F	**060**
+70 °C / +158 °F	**070**

④ H (Upper Level Contact)

Without upper level contact	**O**
41 mm / 1.61 in	**H41**

⑤ L (Lower Level Contact)

Without lower level contact	**O**
251 mm / 9.88 in (SLTS-12 only)	**L251**
403 mm / 15.87 in (SLTS-18 only)	**L403**

⑥ Thread Connection

G3/4 (standard option)	**B12**
1 NPT	**N16**
Note: Others on request	

⑦ Voltage (Volt AC/DC)

48 Volt max. (standard option)	**G048**
115 Volt max. (for thread N16 only)	**G115**

⑧ Electrical Connection

similar DIN VDE 0627 / IEV 61984	**CB**
M12 pin terminal	**M12**

Characteristics

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.

Level contact positions (L, H) are set as given in the order code. They can be adjusted individually later on. Please consider a minimum distance of 40 mm / 1.57 in between the switching points.

Features

- Suitable for Mineral Oil and HFC fluids, other fluids on request
- Either 1 or 2 level contacts available
- 1 integrated temperature switch (optional)
- Standard electrical function:
  Level contacts: Normally closed, opens with falling level
  Temperature contacts: Normally closed, opens with rising temperature

STAUFF Level-Temperature Switches SLTS are available with other electrical functions on request.

Options

- 1 NPT and others availble on request
- max. 115 Volt switching (for thread N16 only)
- Deutsch Adaptor Cable

Please see page 20 for details.

Materials

- Stem: Brass
- Float/Sealing: NBR (Buna-N®)

- Max. operating temp.: +80 °C / +176 °F

Electrical Data and Output

- Max. current level contact: 0.5 A
- Max. current temp. contact: 2.0 A
- Contact load level contact: 10 VA
- Max. operating voltage: (See ordering code)

- Specific gravity of fluid: ≥0,8 kg/dm³
- Hysteresis: +18 °C / +64.4 °F

Protection Rating

- IP 65 protection rating: Dust tight and protected against water jets

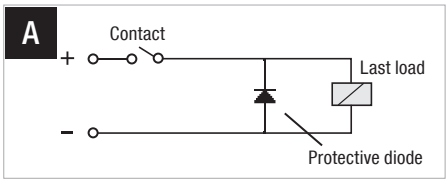
Contact Life Time

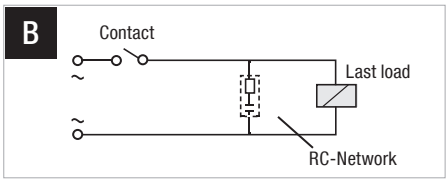
Due to their design Reed contacts have a very high life expectancy. However, it is worthwhile to note the following information.

Contact Protection

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

- DC voltage: a diode parallel to the load, see figure A
- AC voltage: a RC-network parallel to the load, see figure B and table below





Open contact voltage V	10 VA		25 VA		50 VA		75 VA		100 VA	
	R (Ω)	C (µF)	R (Ω)	C (µF)	R (Ω)	C (µF)	R (Ω)	C (µF)	R (Ω)	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

Dimensional drawings: All dimensions in mm (in).