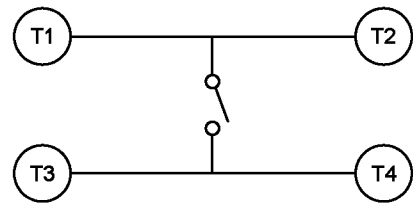


CIRCUIT DIAGRAM



Compliance: RohS II (2011/65/EU)

|                    |       |      |
|--------------------|-------|------|
| Tolerances: ±0.2mm | Date  | Name |
|                    | 07/09 | dr   |
|                    |       |      |
|                    |       |      |
|                    |       |      |
|                    |       |      |
| Travel             | 09/18 | dr   |
| Modifications      | Date  | Name |

**TS 21 x**

**30 18 91**

Page

1/2

**knitter-switch**

Specifications:

Contact rating: 50mA, 12V DC  
 Contact resistance: 100mOhm max.  
 Insulation resistance: 100MOhm min.  
 Dielectric strength: 250V AC (50/60Hz) for 1 minute  
 Operating temperature: -25°C to +70°C  
 Storage temperature: -30°C to +80°C  
 Operating force: x, see table  
 Soldering conditions: pre-heat: max. 120°C, max. 360sec.  
 soldering: max. 265°C, max. 10sec.  
 Travel: 0.35 +/-0.1 mm  
 Material: Cover: stainless steel  
 Stem: high-temp. thermoplastic nylon UL94V-0  
 Contact: phosphor bronze, with silver cladding  
 Terminal: brass, with silver cladding  
 Base: high-temp. thermoplastic nylon UL94V-0, molded black

| x | Operating force (gf) | Stem color | Life cycles |
|---|----------------------|------------|-------------|
| N | 160 +/-50            | brown      | 200 000     |
| R | 260 +/-50            | red        | 100 000     |
| S | 320 +/-80            | salmon     | 100 000     |
| Y | 520 +/-130           | yellow     | 100 000     |

Compliance: RohS II (2011/65/EU)

|                    |       |      |                       |      |                 |
|--------------------|-------|------|-----------------------|------|-----------------|
| Tolerances: ±0.2mm |       |      | Date                  | Name | <b>TS 21 x</b>  |
|                    |       |      | 07/09                 | dr   |                 |
|                    |       |      |                       |      |                 |
|                    |       |      |                       |      |                 |
|                    |       |      | <b>knitter-switch</b> |      | <b>30 18 91</b> |
| Travel             | 09/18 | dr   |                       |      | Page<br>2/2     |
| Modifications      | Date  | Name |                       |      |                 |