# **Technical Data**

# Foot-switch

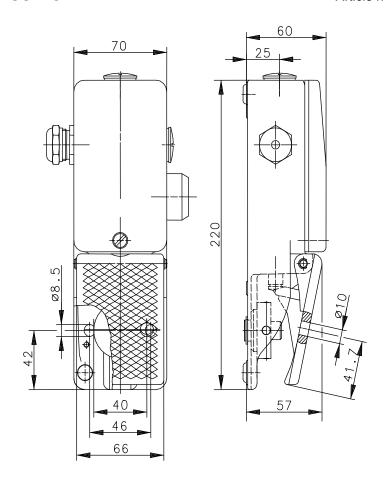


#### Series F1

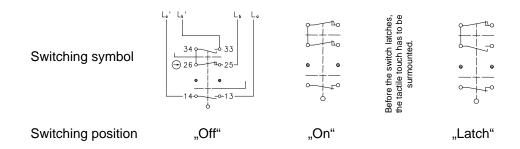
Description

F1-SU1ZUV1ZDR

Article number 6161500557



Three-Step-Safety Switch with latching function "Off-On-Off"



| Electrical data                 |                         |   |  |
|---------------------------------|-------------------------|---|--|
| Rated insulation voltage        | U <sub>i</sub>          | 400 V AC  |  |
| Conventional thermal current    | <b>I</b> <sub>the</sub> | 10 A  |  |
| Rated operational voltage       | $U_e$                   | 240 V   |  |
| Utilization category            |                         | AC-15, U <sub>e</sub> /I <sub>e</sub> 240 V / 3 A |  |
| Direct opening action           | $\Theta$                | acc. to IEC/EN 60947-5-1                          |  |
| Short-circuit protective device |                         | Fuse 2 A gG                                       |  |
| Protection class                |                         | I   |  |

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| Mechanical data                     |                     |   |
|-------------------------------------|---------------------|---|
| Enclosure                           |                     | AL, die-cast  |
| Cover                               |                     | AL, die-cast  |
| Actuator                            |                     | Foot lever (PA)                                     |
| Ambient air temperature             |                     | -30 ° C +80 °C                                      |
| Contact type                        |                     | 1 N.C, 2 N.O (Zb)                                   |
| Shifting force pedal                |                     | approx. 10 N (pedal centre)                         |
| Pressure point                      |                     | ≈ 460 N   |
| Mechanical life                     |                     | 10 x 10 <sup>6</sup> operating cycles               |
| Sequence of the switching position: | Off, On, Off        | 10 x 10 <sup>6</sup> operating cycles               |
| or:                                 | Off, On, Latch, Off | 1 x 10 <sup>6</sup> operating cycles                |
| Switching frequency                 |                     | max. 50/min   |
| Assembly                            |                     | 2 x M8  |
| Connection                          |                     | screw terminals (M3,5)                              |
| Number of connections               |                     | 6 (see switching symbols)                           |
| Protection ground                   |                     | 2 x M4  |
| Conductor cross-sections            |                     | Solid 0,5 – 1,5 mm <sup>2</sup>                     |
|                                     |                     | Wire with ferrules 0,5 – 1,5 mm <sup>2</sup>        |
| Cable entry                         |                     | 2 x M20x1,5; 1 x cable gland M20 x 1,5              |
|                                     |                     | (tightness-range 6-12 mm)                           |
| Weight                              |                     | approx. 0,7 kg                                      |
| Protection type                     |                     | IP65 in accordance with IEC/EN 60529                |
| ID for safety engineering           |                     |   |
| B10d                                |                     | 2 x 10 <sup>6</sup> switching cycles                |
|                                     |                     |   |
| Regulations                         |                     | VDE 0660 T100, DIN EN 60947-1, IEC 60947-1          |
|                                     |                     | VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1      |
|                                     |                     |   |
| EU Conformity                       |                     | acc. to Directive 2006/42/EC                        |
|                                     |                     |   |
| Approvals                           |                     |   |
|                                     |                     | DGUV  |
|                                     |                     | <sub>C</sub> CSA <sub>US</sub> A300 (same polarity) |
|                                     |                     | CCC   |
|                                     |                     |   |

#### Safety function

Three stage safety footswitch with latch

The safety footswitch contacts are wired in series, this allows normal machine operation with the advantage of a safety latched "Emergency stop" if the pedal is fully depressed.

- 1. Rest-Machine stopped.
- 2. Machine start is enabled by depressing pedal to the pressure point, this closed the normally open contacts 33-34 and 13-14.
- 3. In an emergency, the pedal is fully depressed (beyond the pressure point). The normally closed contacts 25-26 are force disconnected stopping the machine, simultaneously the latch engages and holds the contacts in this "Emergency stop" status, preventing an unauthorised re-start of the machine.

"Safety for man and machine"

3. Only after releasing the latch, by pressing the push button mounted in the side of the footswitch body, do the contacts reset allowing normal operation to resume.

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#### **Notes**

The specified protection classification (IP code) applies only when the cover is closed and the appropriate cable is used, in accordance with the clamping

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