

# Foot-switch Series F1

Description **F1-U1ZA2Z R**

Article number **6161000652**

### Operating diagram

Rest position

11-12, 23-24, 31-32, 41-42

Detent position/  
Pedal stopper

To reach the detent position the pedal are actuated to the stop. Direct opening action at pedal stop.

Scale and proportions can differ

### Operating symbol

|                     |                       |
|---------------------|-----------------------|
| <p>Off-position</p> | <p>Latch-position</p> |
|---------------------|-----------------------|

| Electrical data                 |           |  |
|---------------------------------|-----------|--|
| Rated insulation voltage        | $U_i$     | 400 V AC                                       |
| Conv. thermal current           | $I_{the}$ | 10 A   |
| Rated operational voltage       | $U_e$     | 240 V  |
| Utilization category            |           | AC-15, $U_e / I_e$ 240 V / 3 A                 |
| Direct opening action           |           | acc. to IEC/EN 60947-5-1, Annex K (pedal stop) |
| Short-circuit protective device |           | Fuse 6 A gG                                    |
| Protection class                |           | I  |

| Mechanical Data                   |  |
|-----------------------------------|--|
| Enclosure                         | AL, die-cast, yellow   |
| Protective guard                  | AL, die-cast, yellow   |
| Actuator                          | Foot lever (PA), red   |
| Ambient air temperature           | -30 °C ... +80 °C  |
| Contact type                      | 3 N.C. / 1 N.O. (Zb)   |
| Operating force                   | ≈ 10 N (pedal centre)  |
| Mechanical life                   | 1 x 10 <sup>6</sup> switching cycles   |
| Switching frequency               | ≤ 30/min   |
| Assembly                          | 2 x M8   |
| Connection                        | screw connections (M3,5)   |
| Number of connections             | 8  |
| Conductor cross-sections          | Solid: 0,5 ... 1,5 mm <sup>2</sup><br>Litz wire with ferrules: 0,5 ... 1,5 mm <sup>2</sup> |
| Cable entrance                    | 3 x M20x1,5  |
| Protection ground                 | 2 x M4   |
| Weight including protective guard | ≈ 0,68 kg  |
| Protection type                   | IP 67 acc. to IEC/EN 60529   |

| ID for safety engineering |                                      |
|---------------------------|--------------------------------------|
| B10d                      | 2 x 10 <sup>6</sup> switching cycles |

| Standards |                    |
|-----------|--------------------|
|           | DIN EN 60947-5-1   |
|           | DIN EN ISO 13849-1 |

| EU Conformity |  |
|---------------|--|
|               | acc. to directive 2014/35/EU (Low-Voltage-Directive) |

| Notes  |  |
|--|--|
| The degree of protection specified (IP code) applies only to a properly closed cover and the use of an equivalent cable gland with adequate cable. |  |
| The pedal remains depressed in latch function.   |  |