



1) Reference edge, 2) Function indicator FC, 3) 1st pos., 4) Mark. Safety switch position



### Display/Operation

**Function indicator** 1-2. Switch position: FC - 6...24 V

### Electrical connection

**Connection type** 1-2. Switch position: Screw terminal

### Electrical data

**Continuous current** 1-2. Switch position: 6 A  
**Rated operating voltage U<sub>e</sub>** 1-2. Switch position: 250 V AC  
**Switching function mechanical** NC forced-opening per VDE  
 Double-interrupting  
 Normally open with snap funct.  
 galvanically isolated  
 One NO and one NC  
 Dual changeover  
**Switching rate** 1-2. Switch position: 160/min

### Environmental conditions

**Ambient temperature** -5...85 °C  
**IP rating** IP67

### Functional safety

**B10d (EN ISO 13849-1)** BSE 85: 1 mil. Switching operations

### General data

**Approval/Conformity** CE  
 CSA  
 WEEE  
**Basic standard** IEC 60947-5-1  
**Operating principle** 1-2. Switch position: Mechanical  
**Version** Safety EN 60204-1

### Material

**Housing material** Aluminum  
**Housing material, surface protection** Anodized  
**Material contacts** 1-2. Switch position: Silver  
**Plunger material** 1-2. Switch position: Stainless steel (1.4034)

### Mechanical data

**Approach direction** Vertical to mounting surface  
**Approach speed** 1-2. Switch position: 60 m/min  
**Dimension** 84 x 90 x 77.5 mm  
**Distance cam - reference edge** 1-2. Switch position: 2.50...3.00 mm  
**Flange, feed-through** 1 threaded exit M25  
**Installation** Horizontal  
**Life expectancy mechanical** 1-2. Switch position: 1 million Switching operations  
**Number of switching positions** 2x Roller  
**Plunger spacing 1st switch position** 50 mm  
**Plunger style** 1-2nd switch position: Roller  
**Switch actuation force** 1-2. Switch position: 30 N  
**Switching element** 1-2. Switch position: BSE 85

Range/Distance

Reproducibility  
Switch position spacing

1-2. Switch position:  $\pm 0.02$  mm  
16 mm

## Wiring Diagrams

BSE 85

