



PRODUCT INFORMATION

S850

Snap switch with double-break NC contacts and positive opening operation

The new S850 Series snap-action switch from Schaltbau offers a favourably priced, but at the same time safe and reliable alternative to cost-intensive programmable logic controllers (PLC).

Crucial for the development of the double-break NC switch was the new standard DIN EN ISO 13849, which also forms the basis of a new EC machinery directive.

Redundant systems can be realised by means of the S850, because the snap-action switch has two galvanically isolated circuits.

Features:

- Snap-action switch with positive opening operation
- Double-break NC contacts
- High resistance to shock and vibration
- Actuator options

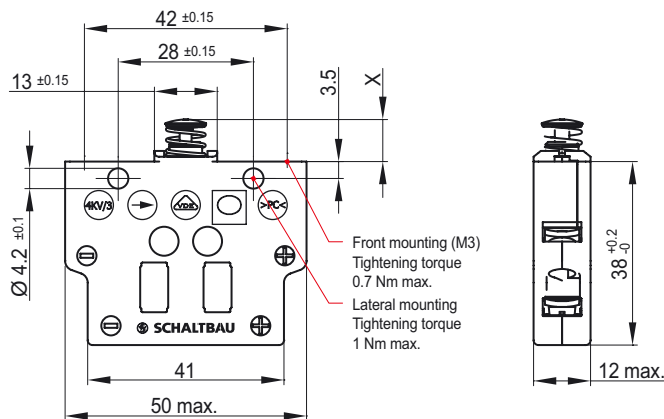
Applications:

The switch is typically used for systems and components that require a maximum of safety and reliability such as:

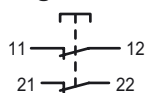
- Doors of trains
- Point controllers
- Cranes and hoists

Approvals (pending): VDE, CCC, UL, cUL

Dimension diagram



Circuit diagram



Dimensions in mm

Dimension X	Actuator position
8.85 ±0.15	Free position
6.60 ±0.25	Operating position
5.80	End of positive opening operation
7.80 ±0.25	Release position
5.65	Total travel position
1.2 (typical)	Differential movement

Specifications

Contact configuration	2 NC, 2 galvanically isolated contact bridges
Conv. thermal current I_{th}	10 A at 85°C
Rated insulation voltage U_i at PD3	400 V
Contact material	Silver or gold
Actuating force	8.5 N max., no aux. actuator
Release force	1.2 N min., no aux. actuator
Utilization category	AC15 230 V / 1.5 A DC13 110 V / 1.0 A DC13 24 V / 1.5 A
Lag	< 3 ms, when opening contacts between two NC circuits
Vibration (IEC 60068-2-6) at 1 ms max. opening time	15 g, 10 ... 500 Hz, all directions
Shock (IEC 60068-2-27) at 1 ms max. opening time	30 g
Mechanical endurance	1.5 million cycles
Degree of protection (IEC 60529)	Terminals IP20 Contacts IP40
Temperature range	-55°C ... +85°C