

PRODUCT INFORMATION

S834 T1G2a 100

Enabling switch - with distinct operating point and positive opening operation



The S834 three-position enabling switch is typically used in automatic handling machines and robotics.

Function

- **Contacts 1–2:** Contacts are closed when the actuator is in the mid-position (partly depressed) and rest (released) position. Contact 2 remains open when the actuator is in the fully pressed position.
- **Contacts 3–4:** Contact is made only when the actuator is in the mid-position. Contacts are open when the actuator is in the rest position and in the fully pressed position. Contact 1 remains open when the actuator reverts from the fully pressed position to the rest position.

Safety

- **⊕ Positive opening operation:** Reliable interruption of circuit even in case contacts 1–2 have become welded closed.
- **Rugged & reliable:** A return to rest (released) position is guaranteed even in the event of spring failure.

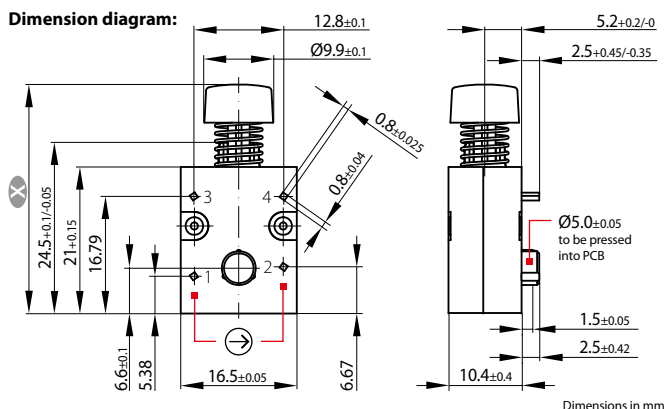
Standards

- **IEC 60947-5-1, Annex K:** Special requirements for control switches with direct opening action
- **UL 94V-0:** Flammability Standard

Ordering code

- S834 T1G2a 100

Dimension diagram, circuit diagram

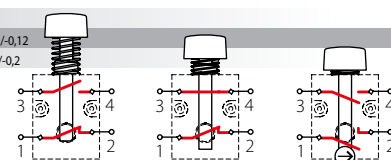


Circuit diagram, functions:

Rest position X : $32,9 \pm 0,2$
Mid-position X : $30,28 \pm 0,3 / -0,12$
Fully pressed position X : $26,9 \pm 0,25 / -0,2$

Switching contact 3 – 4

Switching contact 1 – 2



Specifications

Conventional thermal current I_{th}	2.5 A
Rated insulation voltage U_i at PD2	250 V
Contact material	AgCu3
Contact gap	1.2 mm min.
Actuation force	
Actuation force to mid-position	≤ 3 N
Holding force in mid-position	< 3 N
Actuation force to fully pressed position	> 5 N
Positive opening force	≤ 21 N
Mechanical life	
Operations to mid-position	$> 200,000$ operations
Operations to fully pressed position	$> 100,000$ operations
Ingress protection rating (IP code)	Terminals IP00 Contact area IP50
Terminals	Solder pins for PCB
Temperature range	$0^\circ\text{C} \dots +55^\circ\text{C}$
Dimensions (L x W x H)	$33 \times 16,5 \times 10,5$ mm
Weight	4.2 g