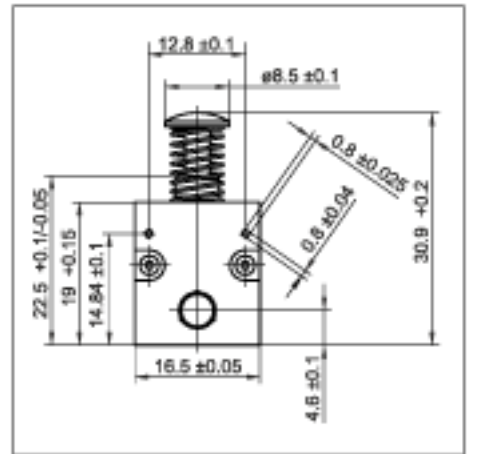
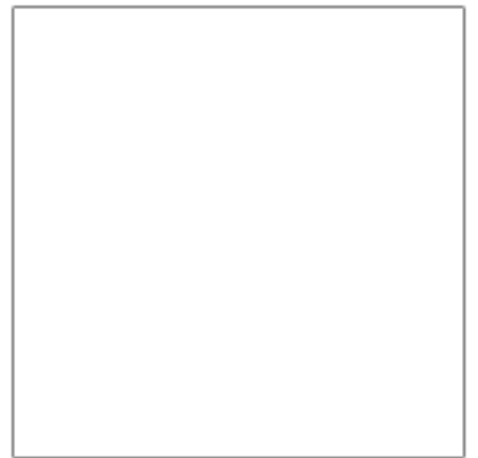
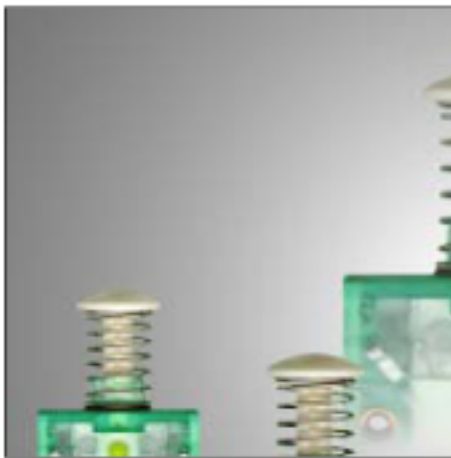




SCHALTBAU

Connect · Contact · Control

Enabling Switch S834



D 34e

Enabling switch S834

The S834 enabling switch is typically used in automatic handling machines and robotics. When installed in such devices, the S834 greatly increases the safety of the operator in the working area.

Application:

During operation of the machine the enabling switch must be held in the working position to maintain closure of the circuit. In case of emergency, the operator merely has to release the pressure on the button for

the machine to stop immediately. The same is true for panic reaction, where the increased application of pressure will stop the machine.

Function:

To summarise, our S834 enabling switch only closes in the working position. In the rest and final positions the switch contacts are open. Contacts are not activated as the switch reverts to the rest position from the final position.

Technical data



Figure S834 enlarged

Conventional thermal current (I_n)	2.5A
Rated insulation voltage (U)	250 V
Rated impulse withstand voltage (U_{imp}) at contamination degree	1.5 kV 1
Contacts	Ag Cu3
Contact gap	1.2 mm min.
Operating force	
Operating force to operating position	≤ 3 N
Holding force in operating position	< 3 N
Operating force to final position	> 5 N
Positive opening force	≤ 21 N
Positive opening travel	4.5 mm
External fuse	1A slow blow, acc. to IEC 127-2/5
Switching categories	
DC-12; $U_n = 48VDC$; $I_n = 1A$	max. voltage 600V
DC-13; $U_n = 48VDC$; $I_n = 0.3A$	max. voltage 1.4 kV
Mechanical life	
Operations to working position	> 300 000 operations
Operations to final position	> 70 000 operations
Electrical life	
at 48VDC, 1A, resistive load	> 200 000 operations
Temperature range	0°C to 55°C
Mounting	
manual by soldering iron	400°C (5 seconds max.)
mechanical by soldering machine	250°C (6 seconds max.)
Protection degree	
Contacts / Terminals	IP 50 / IP 00
Terminals	Pins for Printed Circuit Board
Weight	4.1 g ± 0.5 g
Mounting position	any

Ordering code:

S834

Design features

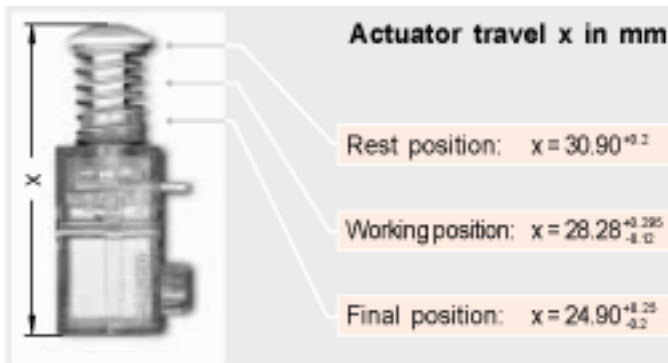
The enabling switch S 834 is distinguished by the following important features:

- Normally open contact, momentary contact type, three actuating states
- Self-cleaning contact points by wiping action
- Low transfer resistance (typical 6 mΩ)
- Soldering pins for PCB mounting
- Transparent green housing allows the contact condition to be viewed easily
- Return to rest position guaranteed even after spring failure

Standards

- Electrical and mechanical features for low voltage switch gear according to EN 60947-5-1, IEC 947-5-1, VDE 0660 part 200
- Protection degree according to EN 60947-1 (7-92), terminals IP 00, contacts IP 50
- Plastics flame retardant according to UL 94V-0
- TÜV certificate in addition to IEC 947-5-1

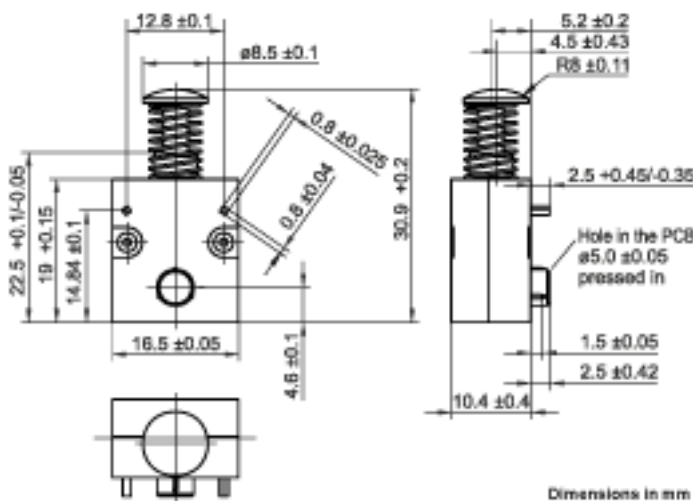
Actuator travel



Mode of functions

- **Rest position → Working position:**
Contact closed, if operator is holding the button manually in working position
- **Working position → Final position:**
Contact open, if the operator presses the button to the lower final position
- **Final position → Rest position:**
Contact open, no contact during release from final position to rest position

Device outline



Application



Mounting instructions:

Please ensure protection against contact.

Electrical Components and Systems for Transportation and Industrial Applications

Connectors	<ul style="list-style-type: none"> ● Industry-standard connectors ● Special connectors to suit the special requirements of telecommunications engineering (MIL-connectors) ● Connectors for railway technology, including UIC connectors ● Special connectors to suit customer requirements
Snap-action switches	<ul style="list-style-type: none"> ● Snap-action switches with positive opening operation ● Snap-action switches with self-cleaning contacts ● Special switches to suit customer requirements
Contactors	<ul style="list-style-type: none"> ● Single and multi-pole DC contactors ● High-voltage AC/DC contactors ● Contactors for battery powered vehicles and power supplies ● Contactors for railway applications ● Single terminal clamps and fuse holders ● DC emergency break switches ● Special contactors to suit customer requirements
Control devices	<ul style="list-style-type: none"> ● Master controllers and reversers for railway applications ● Toggle switch devices ● Foot and hand switches for railway applications (dead-man equipment) ● Switching elements with high breaking capacity ● Emergency brake handles ● Signal devices
Transportation	<ul style="list-style-type: none"> ● Power supplies and equipment for passenger coaches (electric equipment) ● Battery chargers for locomotives and passenger coaches ● High-voltage equipment for single and multi-phase operation ● Heating devices and heating controls ● Design and engineering services for passenger coaches ● Design and engineering services for diesel and electric tractive vehicles ● Special equipment and design services to suit customer requirements

Schaltbau GmbH

Klausenburger Strasse 6
81677 Munich
Germany

Phone +49 89 9 30 05-0
Telefax +49 89 9 30 05-350
e-Mail schaltbau@schaltbau.de
Internet <http://www.schaltbau.de>

with compliments