

4.5 x 2.25 mm Side Actuated Tactile Switch



See below:

Approvals and Compliances

Description

- 4.5 x 2.25 mm Side Actuated Tactile Switch

Unique Selling Proposition

- Microminiature size 4.5 x 2.25 x 2.6 mm
- Max. 1.0 mm height above the PCB (edge mount)
- Options of different actuation forces
- SMT termination with or without L-shape shield

Applications

- Portable electronic equipment; e.g. Digital cameras, Audio players, Sports headset, Bluetooth accessory, Healths monitoring

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [CAD-Drawings](#), [Product News](#), [Detailed request for product](#)

Technical Data

Electrical Data

Switching Voltage	2 VDC - 12 VDC
Switching current	10 µA- 50 mA
Lifetime	200'000 actuations
Contact Resistance	max. 100 mΩ (initial) max. 200 mΩ after lifetime
Insulation Resistance	> 100 MΩ

Mechanical Data

Actuating Force	1.6 N, 3.2 N
Actuating Travel	0.15 ± 0.1 mm

Climatical Data

Operating Temperature	-40 °C - 85 °C
Storage Temperature	-40 °C - 85 °C
IP-Protection	IP40

Soldering Data

Soldering Methods	Reflow
Solderability	260 °C max. 5 sec

Material

Terminals	Ag-plated Phosphor Bronze
Contact	Ag-plated Stainless Steel
Cover	Ni/Sn-Plated Stainless Steel
Base	Thermoplastic (PA)
Actuator	Thermoplastic (PA)

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

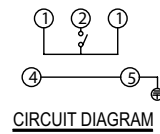
SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Compliances

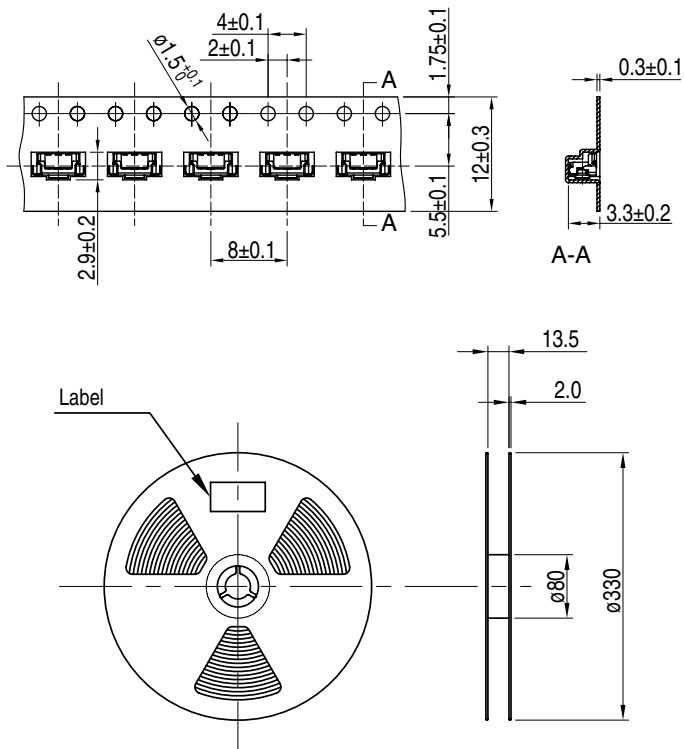
The product complies with following Guide Lines

Identification	Details	Initiator	Description
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

With L shape

[illegible]

Tape & Reel dimension



Order number key

TCSV4	-	A	-	160	-	L	-	H
1		2		3		4		5

Type  **1**
TCSV4 = TCSV4

Contact configuration  **2**
SPST = A

Actuation force  **3**
1.6 N = 160
3.2 N = 320

Shield termination  **4**
standard = S
with L shape = L

Actuator type  **5**
hard = H

Variants

Type	Height above PCB	Terminal	Actuating Force	MOQ	Config. Code	Order Number
TCSV4	max. 1.0 mm	standard	1.6 N	10000	TCSV4-A-160-S-H	3-162-923
TCSV4	max. 1.0 mm	standard	3.2 N	10000	TCSV4-A-320-S-H	3-162-924
TCSV4	max. 1.0 mm	with L shape	1.6 N	10000	TCSV4-A-160-L-H	3-162-925
TCSV4	max. 1.0 mm	with L shape	3.2 N	10000	TCSV4-A-320-L-H	3-162-926

Availability for all products can be searched real-time:<https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

Packaging unit	2500 pcs. (Tape & Reel)
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