Push button for PCB mounting





PMS IP67

PMS Variable height, IP40

See below:

Approvals and Compliances

Description

- Switches are possible with different heights
- High-quality gold contacts
- Solder terminals

Unique Selling Proposition

- Reliable tactile feedback on input
- Simple assembly
- Long life time

Weblinks

Climatical Data

pdf data sheet, html datasheet, General Product Information, CAD-Drawings, Product News, Detailed request for product

Technical Data

Electrical Data	
Switching Voltage	30 VAC/ 42 VDC
Switching current	50 mA
Rated Switching Capacity	0.12 W
Lifetime	> 1 million actuations at Rated Swit- ching Capacity
Contact Resistance	$<$ 50 m Ω
	$<$ 150 m Ω after lifetime
Insulation Resistance	> 100 MΩ
Duration of Bounce	typ. 0.15 ms
Mechanical Data	
Actuating Force	IP40 : 1.8 ± 0.4 N
	IP67: 2.2 ± 0.4 N
Actuating Travel	$0.35 \pm 0.1 \text{ mm}$
End Stop Strength	> 100 N
Lifetime	> 1 million actuations

-40 °C to 85 °C	
-40 °C to 85 °C	
IP40 / IP67	
Wave	
245 °C / 5 sec (IEC 60068-2-58 Test Td)	
260 °C / 10 sec (IEC 60068-2-58 Test	
Td)	
VMQ	
CuZn37 1.5 µm Ni 0.5 µm Au	
CuZn37 SnNi	
Thermoplastic (PA 4.6)	
PA4	
X 12 CrNi 17 7	
Thermoplastic (PC)	

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.

Application standards

Application standards where the product can be used

Organization Design Standard Description IEC/UL 62368-1 Audio/video, information and communication technology equipment - Part Suitable for applications acc. <u>IEC</u> 1: Safety requirements

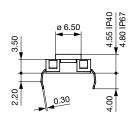
Compliances

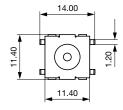
The product complies with following Guide Lines

Identification	Details	Initiator	Description
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
50	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	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.

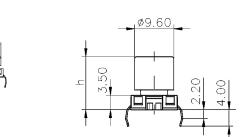
Dimension [mm]

PMS PCB Base module

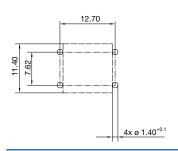




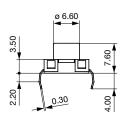
PMS PCB with elogated button

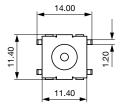


Drilling diagrams



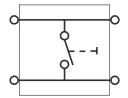
PMS PCB Variable height





Diagrams

Circuit Diagram SMS/PMS



Order number key

Type	S M S - H07 - D09	- AG - B - S	- A - 0
Type PMS SMS = PMS SMS = PMS SMS SM			
PMS = PMS SMS = SMS Switch height Q 2 4.55 mm = H06 4.7 mm = H07 7.6 mm = H14 7.75mm = H15 8.35 mm = H18 9.1 mm = H20 9.85 mm = H24 10.6 mm = H26 11.35 mm = H28 12.1 mm = H28 12.4 mm = H30 12.4 mm = H32 12.85 mm = H34 13.6 mm = H34 13.6 mm = H34 13.6 mm = H39 15.1 mm = H41 15.85 mm = H44 16.6 mm = H44 16.7 mm = H44 18.1 mm = H50 19.6 mm	. 2	4 0 0	1 0
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Switch height			
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4.7 mm = H07 7.6 mm = H14 7.75mm = H15 8.35 mm = H18 9.1 mm = H20 9.85 mm = H24 10.6 mm = H26 11.35 mm = H28 12.1 mm = H30 12.4 mm = H32 12.85 mm = H34 13.6 mm = H34 13.6 mm = H34 13.6 mm = H44 15.85 mm = H44 15.85 mm = H44 16.6 mm = H46 17.35 mm = H48 18.1 mm = H50 18.85 mm = H48 18.1 mm = H50 18.85 mm = H48 18.1 mm = H50 18.85 mm = D09 6.5 mm = D09 6.6 mm = D10			_
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7.75mm			
9.1 mm		=	
9.85 mm		=	
10.6 mm			
11.35 mm			
12.1 mm			
12.85 mm		=	
13.6 mm = H36 14.35 mm = H39 15.1 mm = H41 15.85 mm = H44 16.6 mm = H46 17.35 mm = H48 18.1 mm = H50 18.85 mm = H52 19.6 mm = H55 22.6 mm = H57 Actuator diameter Q 3 6.5 mm = D09 6.6 mm = D10 9.6 mm = D11 Contact material Q 4 Silver = AG Gold = AU SnNi = SN IP specification Q 5 IP40 = A IP67 = B Soldering type C 6 THT = T Straight = T J-Connector = 3 Gullwing = 4			
14.35 mm			
15.1 mm			
15.85 mm			
17.35 mm = H48 18.1 mm = H50 18.85 mm = H52 19.6 mm = H55 22.6 mm = H57 Actuator diameter \$\mathref{Q}\$ 3 6.5 mm = D09 6.6 mm = D10 9.6 mm = D11 Contact material \$\mathref{Q}\$ 4 Silver = AG Gold = AU SnNi = SN IP specification \$\mathref{Q}\$ 5 IP40 = A IP67 = B Soldering type THT = T SMD = S Terminal type \$\mathref{Q}\$ Straight = 1 J-Connector = 3 Gullwing = 4 Packaging None = 0 Blister = A	15.85 mm	=	
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D10			
9.6 mm = D11 Contact material Q 4 Silver = AG Gold = AU SnNi = SN IP specification Q 5 IP40 = A IP67 = B Soldering type Q 6 THT = T SMD = S Terminal type Q 7 Straight = 1 J-Connector = 3 Gullwing = 4 Packaging Q 8 None = 0 Blister = A			
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Gold = AU SnNi = SN IP specification □ 5 IP40 = A IP67 = B Soldering type □ 6 THT = T SMD = S Terminal type Straight = 1 J-Connector = 3 Gullwing = 4 Packaging □ 8 None = 0 Blister = A			
SnNi = SN IP specification Q 5 IP40 = A IP67 = B Soldering type Q 6 THT = T SMD = S Terminal type Q 7 Straight = 1 J-Connector = 3 Gullwing = 4 Packaging Q 8 None = 0 Blister = A			
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Terminal type Q 7 Straight = 1 J-Connector = 3 Gullwing = 4 Packaging Q 8 None = 0 Blister = A			
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J-Connector = 3 Gullwing = 4 Packaging			•
Gullwing = 4 Packaging Q 8 None = 0 Blister = A			
Packaging None = 0 Blister = A			
None = 0 Blister = A		_	
Blister = A			-
			_
Duik Malchai – D	Bulk material	=	В

Variants

IP Protection Class Front Side	Terminal	Туре	Overall height / Color	Order Number
IP40	-	Short actuator	-	1241.1602
IP67	-	Short actuator	-	1241.1608
IP40	-	Long actuator	-	1241.1614
IP67	-	Long actuator	-	1241.1620
IP40	-	Height variable	8.35 mm / yellow	1241.1624.1
IP40	-	Height variable	14.35 mm / yellow + black	1241.1624.11
IP40	-	Height variable	9.10 mm / orange	1241.1624.2
IP40	-	Height variable	15.10 mm / orange + black	1241.1624.21
IP40	-	Height variable	9.85 mm / red	1241.1624.3
IP40	-	Height variable	15.85 mm / red + black	1241.1624.31
IP40	-	Height variable	10.60 mm / blue	1241.1624.4
IP40	-	Height variable	16.60 mm / blue + black	1241.1624.41
IP40	-	Height variable	11.35 mm / green	1241.1624.5
IP40	-	Height variable	17.35 mm / green + black	1241.1624.51
IP40	-	Height variable	12.10 mm / grey	1241.1624.6
IP40	-	Height variable	18.10 mm / grey + black	1241.1624.61
IP40	-	Height variable	12.85 mm / black	1241.1624.7
IP40	-	Height variable	18.85 mm / black + black	1241.1624.71
IP40	-	Height variable	13.60 mm / white	1241.1624.8
IP40	-	Height variable	19.60 mm / white + black	1241.1624.81
IP67	-	Height variable	8.35 mm / yellow	1241.1625.1
IP67	-	Height variable	14.35 mm / yellow + black	1241.1625.11
IP67	-	Height variable	9.10 mm / orange	1241.1625.2
IP67	-	Height variable	15.10 mm / orange + black	1241.1625.21
IP67	-	Height variable	9.85 mm / red	1241.1625.3
IP67	-	Height variable	15.85 mm / red + black	1241.1625.31
IP67	-	Height variable	10.60 mm / blue	1241.1625.4
IP67	-	Height variable	16.60 mm / blue + black	1241.1625.41
IP67	-	Height variable	11.35 mm / green	1241.1625.5
IP67	-	Height variable	17.35 mm / green + black	1241.1625.51
IP67	-	Height variable	12.10 mm / grey	1241.1625.6
IP67	-	Height variable	18.10 mm / grey + black	1241.1625.61
IP67	-	Height variable	12.85 mm / black	1241.1625.7
IP67	-	Height variable	18.85 mm / black + black	1241.1625.71
IP67	-	Height variable	13.60 mm / white	1241.1625.8
IP67	-	Height variable	19.60 mm / white + black	1241.1625.81

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

Starting with 14:50 mm the heights are realized with an additional (second) elongated button in black color

Packaging unit loose in boxes (100 pcs.)

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