

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

[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 Switching Capacity
Contact Resistance	< 50 mΩ < 150 mΩ 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 ± 0.1 mm
End Stop Strength	> 100 N
Lifetime	> 1 million actuations

Climatical Data

Operating Temperature	-40 °C to 85 °C
Storage Temperature	-40 °C to 85 °C
IP-Protection	IP40 / IP67

Soldering Data

Soldering Methods	Wave
Solderability	245 °C / 5 sec (IEC 60068-2-58 Test Td)
Resistance to Soldering Heat	260 °C / 10 sec (IEC 60068-2-58 Test Td)

Material

Sealing membrane IP67	VMQ
Contact Material Gold	CuZn37 1.5 µm Ni 0.5 µm Au
Terminals	CuZn37 SnNi
Socket	Thermoplastic (PA 4.6)
Actuator	PA4
Cover of Actuator	X 12 CrNi 17 7
Elongated Button	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

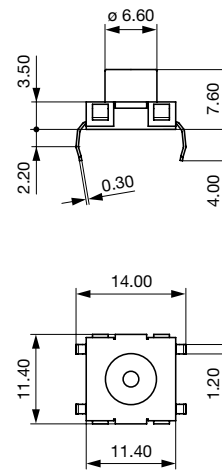
Application standards where the product can be used

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

The product complies with following Guide Lines

Dimension [mm]

PMS PCB Variable height



The technical drawings show the following dimensions:

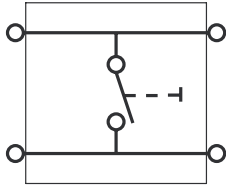
- Top View:** A square footprint with a width of $\varnothing 9.60$. The label "Height PMS" indicates the vertical dimension from the base to the top surface.
- Side View:** Shows the profile of the assembly. Key dimensions include:
 - Total height: h
 - Distance from base to the bottom of the main body: 3.50
 - Diameter of the main body: $\varnothing 9.60$
 - Distance from the bottom of the main body to the top of the base: 2.20
 - Distance from the base to the bottom of the mounting bracket: 4.00

Technical drawing of a stepped shaft. The drawing shows a shaft with a total length of 12.70 and a total diameter of 11.40. The shaft has a step (change in diameter) at the right end. The dimensions are given as follows:

- Total length: 12.70
- Total diameter: 11.40
- Inner diameter (hole): 7.62
- Keyway: 4x $\phi 1.40^{+0.1}$




Diagrams

Circuit Diagram SMS/PMS



Order number key

S	M	S	-	H07	-	D09	-	AG	-	B	-	S	-	A	-	0
1				2		3		4		5		6		7		8

Type																 1
PMS								=								PMS
SMS								=								SMS
Switch height																 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								=								H30
12.4 mm								=								H32
12.85 mm								=								H34
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																 3
6.5 mm								=								D09
6.6 mm								=								D10
9.6 mm								=								D11
Contact material																 4
Silver								=								AG
Gold								=								AU
SnNi								=								SN
IP specification																 5
IP40								=								A
IP67								=								B
Soldering type																 6
THT								=								T
SMD								=								S
Terminal type																 7
Straight								=								1
J-Connector								=								3
Gullwing								=								4
Packaging																 8
None								=								0
Blister								=								A
Bulk material								=								B

Variants

IP Protection Class Front Side	Terminal	Type	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
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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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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Schurter:](#)

[1241.1602](#)