



# THE DATASHEET OF

## 1241.1608

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<br>< 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<br>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

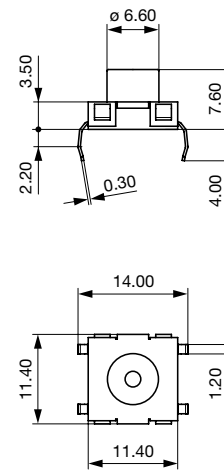
Application standards where the product can be used

| 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

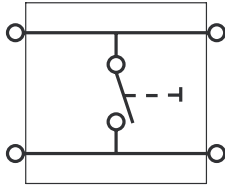


Technical drawing of a rectangular plate with the following dimensions and specifications:

- Overall width: 12.70
- Overall height: 11.40
- Inner rectangular area (dashed lines): 7.62 by 7.62
- Four holes, each with a diameter of  $4 \times \varnothing 1.40^{+0.1}$

## 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 |

|                          |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |                                                                                                |
|--------------------------|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|------------------------------------------------------------------------------------------------|
| <b>Type</b>              |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  <b>1</b>   |
| PMS                      |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | PMS                                                                                            |
| SMS                      |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | SMS                                                                                            |
| <b>Switch height</b>     |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  <b>2</b>   |
| 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                                                                                            |
| <b>Actuator diameter</b> |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  <b>3</b> |
| 6.5 mm                   |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | D09                                                                                            |
| 6.6 mm                   |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | D10                                                                                            |
| 9.6 mm                   |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | D11                                                                                            |
| <b>Contact material</b>  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  <b>4</b> |
| Silver                   |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | AG                                                                                             |
| Gold                     |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | AU                                                                                             |
| SnNi                     |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | SN                                                                                             |
| <b>IP specification</b>  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  <b>5</b> |
| IP40                     |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | A                                                                                              |
| IP67                     |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | B                                                                                              |
| <b>Soldering type</b>    |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  <b>6</b> |
| THT                      |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | T                                                                                              |
| SMD                      |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | S                                                                                              |
| <b>Terminal type</b>     |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  <b>7</b> |
| Straight                 |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | 1                                                                                              |
| J-Connector              |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | 3                                                                                              |
| Gullwing                 |  |  |  |  |  |  |  | = |  |  |  |  |  |  |  | 4                                                                                              |
| <b>Packaging</b>         |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  <b>8</b> |
| 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 |
| 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

|                       |                           |
|-----------------------|---------------------------|
| <b>Packaging unit</b> | loose in boxes (100 pcs.) |
|-----------------------|---------------------------|

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