Piezo Switch N.O.



Alu natural
Non-illuminated



Gold
Non-illuminated



PSE 16

See below:
**Approvals and Compliances**

## Description
- Available in version Standard and lettered
- Assembly by mounting with nut
- Easy to clean due to a tightly closed surface (IP69K)
- Pins / Wire / Faston

## Unique Selling Proposition
- Variety of design options regarding size, colour, shape, connection or lettering
- High reliability, long lifetime with more than 20 mill. actuations

## Characteristics
- Housing material: aluminum or stainless steel
- For use in harsh environments, both indoors and outdoors (see technical data)

## Other versions on request
- Switch for longer switching signal duration, type: PSE IV

## References
Alternative: Other diameter PSE with cable; PSE NO 19; PSE NO 22; PSE NO 24; PSE NO 27; PSE NO 30
Alternative: switch with prolonged signal: PSE AE 16; PSE AE 30; PSE IV 19

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

## Technical Data

| **Electrical Data** | |
|---|---|
| Switching Function | momentary |
| Switching Voltage | max. 42 / 60 VAC/DC |
| Switching current | max. 100 mA |
| Electrical Rating | 1 W |
| Lifetime | 20 million actuations at Rated Switching Capacity |
| Switch Resistance OFF | > 10 MΩ |
| Switch Resistance ON | < 20 Ω actuated (Ta = 25°C) |
| Capacity | 5 nF |
| N.O. Closing Impulse Duration | 20- 1000 ms depending on actuating force, time and speed |
| Contact Configuration | free polarity |
| **RGB Illumination** | |
| Current Consumtion (max per color) | - |

| **Mechanical Data** | |
|---|---|
| Actuating Force | ≤ 3 N at ambient temperature |
| Actuating Travel | 0.002 mm |
| Shock Protection | IK02 |
| Mounting screw torque | 2.5 Nm |
| **Climatical Data** | |
| Operating Temperature | -40 to 85 °C |
| Storage Temperature | -40 to 85 °C |
| IP-Protection | IP67 acc. to IEC 60529, IP69K acc. to DIN 40050-9 |
| Environmental Assessment | +55°C / 93% r.h. acc. to DIN EN 60068-2-30 |
| Salt Spray Test (acc. to DIN 50021-SS) | 24 h / 48 h / 96 h Residence Time |
| **Material** | |
| Housing (depending on type) | Stainless Steel, Aluminium anodized, Polyamide |
| Actuating Area / Insert (with Ring Illumination) | Stainless Steel, Aluminum anodized |
| Illuminated Ring (Ring Illumination) | Polyamide |

## 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.



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## Application standards

Application standards where the product can be used

| Organization | Design | Standard | Description |
|---|---|---|---|
| | Suitable for applications acc. | EMC Directive: | EMC directive 2014/30/EU |
| | Suitable for applications acc. | MIL-STD: | 202F Method 107G, 202F Method 204D, 202F Method 213B, 416D Method RS103, 810E Method 501.3, 810E Method 502.3, 810E Method 507.3 |
| VDE | Suitable for applications acc. | VDE Certificate Number: | DIN EN 61000-4-2, DIN EN 61000-4-4, DIN EN 61000-4-5 |
| IEC | Suitable for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |

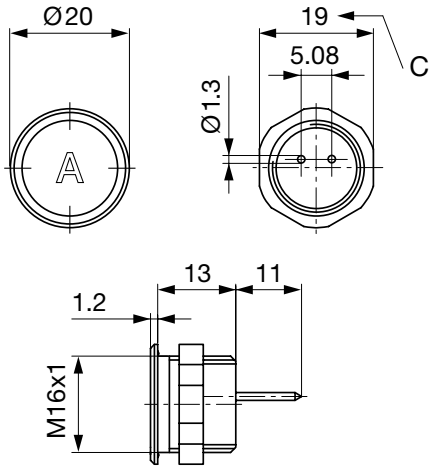
## Compliances

The product complies with following Guide Lines

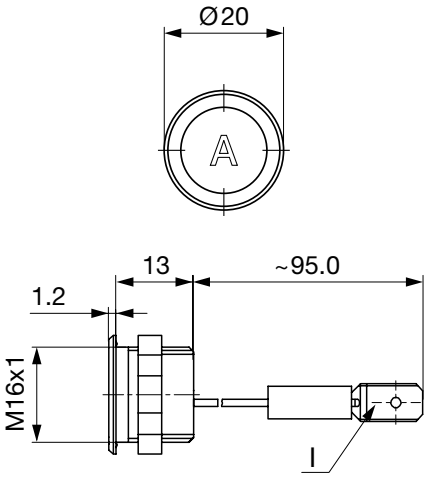
| Identification | Details | Initiator | Description |
|---|---|---|---|
| CE | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
| UK CA | UKCA declaration of conformity | SCHURTER AG | The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008. |
| RoHS | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
| 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]

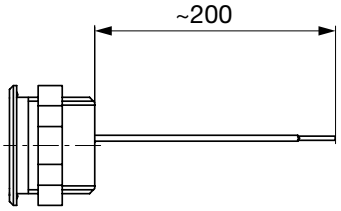
PSE 16 with Pins




PSE M16 with Faston



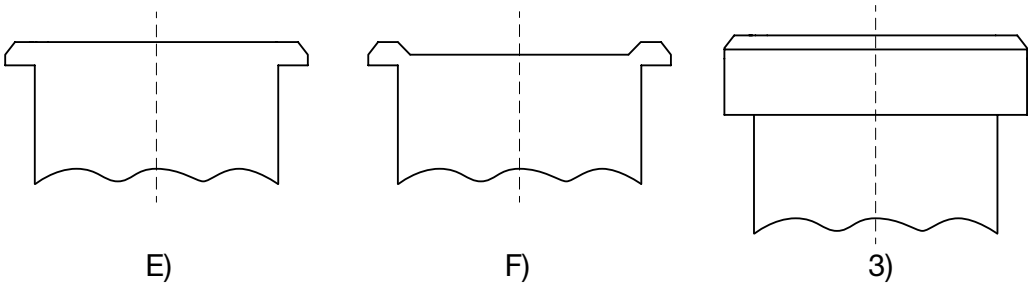

PSE M16 with stranded wire






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Design actuating area



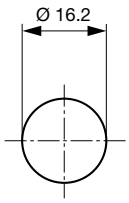

Legend:
C = Width Across Flats
I = Crimp Terminal male 6.3 x 0.8

Lettering:
- either with/without lettering
- position of the connections with respect to the position of the lettering is not defined

F) with finger guidance
E) without finger guidance
3) elevated front design: M19 (standard, others on request)

## Dimension

PSE 16




Drilling diagram

## Marking

| The last three digits in the order number define the lettering: | |
|---|---|
| 001-076 | Standard Lettering |
| 101- | Customized Lettering |

## Lettering Colour of Laser Lettering

| Material | Lettering Colour | | |
|---|---|---|---|
| Stainless Steel | black | Filled letters | |
| Aluminum natural anodized | light grey | Filled letters | (only after customer approval) |
| Aluminum coloured anodized | light grey | Filled letters | |



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## Order Index Lettering

| Laser Marking | | | |
|---|---|---|---|
| 001 =**A** | 021 =**U** | 041 =÷ | 061 =**EIN** |
| 002 =**B** | 022 =**V** | 042 = ✳ | 062 =**AUS** |
| 003 =**C** | 023 =**W** | 043 ==**=** | 063 =**AUF** |
| 004 =**D** | 024 =**X** | 044 = # | 064 =**AB** |
| 005 =**E** | 025 =**Y** | 045 = ↔ | 065 =**ON** |
| 006 =**F** | 026 =**Z** | 046 = ↕ | 066 =**OFF** |
| 007 =**G** | 027 =**0** | 047 = → | 067 =**UP** |
| 008 =**H** | 028 =**1** | 048 = ← | 068 =**DOWN** |
| 009 =**I** | 029 =**2** | 049 = ↓ | 069 =**HIGH** |
| 010 =**J** | 030 =**3** | 050 = ↑ | 070 =**LOW** |
| 011 =**K** | 031 =**4** | 051 = % | 071 =**ON/OFF** |
| 012 =**L** | 032 =**5** | 052 = √ | 072 =**START** |
| 013 =**M** | 033 =**6** | 053 =**CTRL** | 073 =**RESET** |
| 014 =**N** | 034 =**7** | 054 =**RETURN** | 074 = |
| 015 =**O** | 035 =**8** | 055 =**SHIFT** | 075 = |
| 016 =**P** | 036 =**9** | 056 =**LOCK** | 076 = |
| 017 =**Q** | 037 =**+** | 057 =**STOP** | 077 = |
| 018 =**R** | 038 =**-** | 058 =**ENTER** | |
| 019 =**S** | 039 =**.** | 059 =**BACK** | |
| 020 =**T** | 040 = x | 060 =**LINE** | |
| Please note that the font size depends on the number of characters | | | |

## Variants

| Mounting Diameter | Terminal | Housing Material, Torsion Protection | Housing Color | Actuator area | Illumination, LED | Config. Code | Order Number |
|---|---|---|---|---|---|---|---|
| 16 | Flexible wire connection | Aluminum ,no | gold | F | non-illuminated | PSE M 16 NO Alu/St | 1241.3336.075 |
| 16 | Pins | Aluminum ,no | gold | F | non-illuminated | PSE M 16 NO Alu/St | 1241.2411.1 |
| 16 | Pins | Aluminum ,no | red | F | non-illuminated | PSE M 16 NO Alu/St | 1241.2411.3 |
| 16 | Pins | Aluminum ,no | blue | F | non-illuminated | PSE M 16 NO Alu/St | 1241.2411.4 |
| 16 | Pins | Aluminum ,no | green | F | non-illuminated | PSE M 16 NO Alu/St | 1241.2411.5 |
| 16 | Pins | Aluminum ,no | black | F | non-illuminated | PSE M 16 NO Alu/St | 1241.2411.7 |
| 16 | Pins | Aluminum ,no | Alu natural | F | non-illuminated | PSE M 16 NO Alu/St | 1241.2411.8 |
| 16 | Pins | Stainless Steel ,no | - | F | non-illuminated | PSE M 16 NO Alu/St | 1241.2611 |
| 16 | Faston | Aluminum ,no | red | F | non-illuminated | PSE M 16 NO Alu/St | 1241.3000 |
| 16 | Faston | Aluminum ,no | green | F | non-illuminated | PSE M 16 NO Alu/St | 1241.3001 |
| 16 | Faston | Aluminum ,no | black | F | non-illuminated | PSE M 16 NO Alu/St | 1241.3002 |
| 16 | Faston | Aluminum ,no | Alu natural | F | non-illuminated | PSE M 16 NO Alu/St | 1241.3003 |

Nut with gasket are enclosed in the box.

Other mounting diameters, materials, colors, connections, supply voltages possible available on request.
Special materials e.g. Marine grade stainless steel for use in salt and chlorinated environment on request.

The MOQ for standard laser lettering on standard variants is a packing unit.

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

Legend:

Type: PSE

NO = normaly open

Alu = Aluminium

ES = Stainless steel



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| Mounting Diameter | Terminal | Housing Material, Torsion Protection | Housing Color | Actuator area | Illumination, LED | Config. Code | Order Number |
|---|---|---|---|---|---|---|---|

F = Finger guidance

## Packaging unit

10 in box with insert or packed in air cushion bags





- Actuating elements in ESD safe packaging
- Screw nuts and sealing O-ring in a bag (enclosed in the box)

## Accessories

| | Description |
|---|---|
|  | Connecting_Terminal_PSE<br>Connecting Terminal |



The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.



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