

Piezo Switch N.O.



Alu natural
non-illuminated



Gold
non-illuminated



PSE M16

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 or 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 types: plastic, aluminum or stainless steel, ring illuminated version additionally made of polyamide
- 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
- Switch for explosion proof applications, type: PSE EX
- Switch with enhanced vandal proof protection, type: PSE HI

References

Alternative: switch vandal improved: [PSE HI 22](#)
 Alternative: switch for EX proved applications: [PSE EX 16](#); [PSE EX 19](#); [PSE EX 22](#)

Alternative: Other diameter

Alternative: Other diameter [PSE NO 19](#); [PSE NO 22](#)

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 | < 20Ω 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 Consumption (max per color) -

Mechanical Data

| | |
|-----------------------|------------------------------|
| Actuating Force | ≤ 3 N at ambient temperature |
| Actuating Travel | 0.002 mm |
| Shock Protection | IK 02 |
| Mounting screw torque | 2.5Nm |

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.



Application standards

Application standards where the product can be used

| Organization | Design | Standard | Description |
|--|--------------------------------|----------------|--|
|  | Designed for applications acc. | IEC/UL 62368-1 | IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment. |

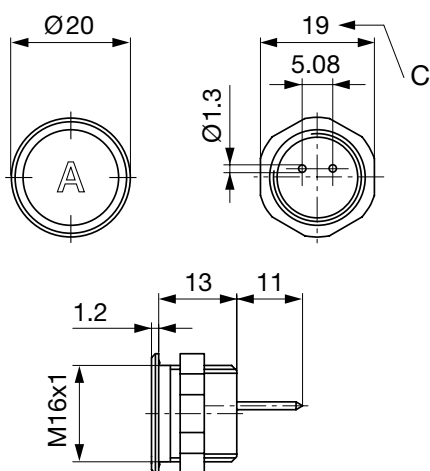
Compliances

The product complies with following Guide Lines

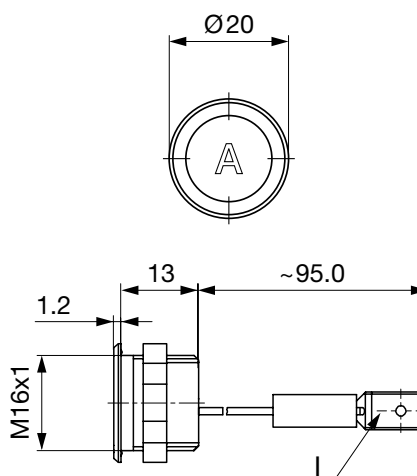
| Identification | Details | Initiator | Description |
|--|---------|-------------|---|
|  | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
|  | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |

Dimension [mm]

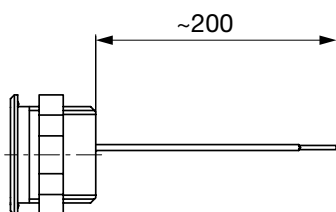
PSE M16 with Pins



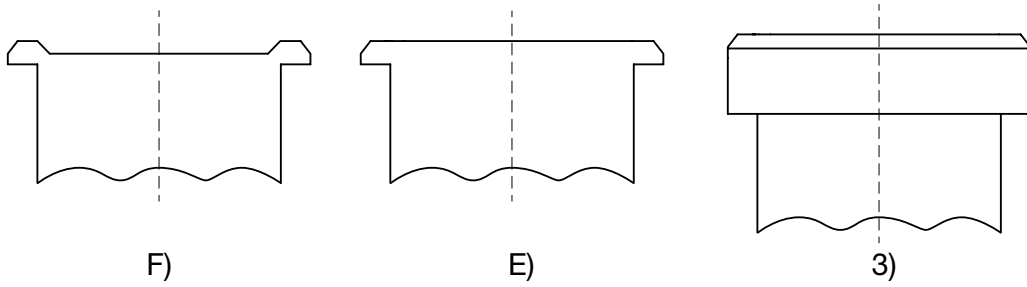
PSE M16 with Faston



PSE M16 with stranded wire



Design actuating area



Legende:

C = Schlüsselweite

I = Flachsteckzunge 6,3 x 0,8

Beschriftung:

- wahlweise mit/ohne Beschriftung

- Lage der Anschlüsse zur Lage der Beschriftung ist nicht definiert

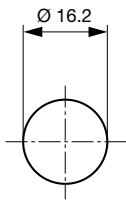
F) mit Fingerführung

E) ohne Fingerführung

3) erhöhte Frontform M19 (Standard, weitere auf Anfrage)

Dimension

PSE M16



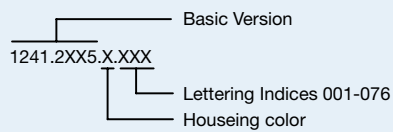
Drilling diagram

Lettering

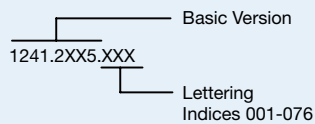
The last three digits in the order number define the lettering:

| | |
|---------|----------------------|
| 001-076 | Standard Lettering |
| 101- | Customized Lettering |

Lettering - Aluminium / Plastic Material



Lettering - Stainless Steel



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 |

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 | |

All Variants

| Mounting Diameter | Terminal | Housing Material, Torsion Protection | Colour of Housing | Actuator area | Illumination, LED | Config. Code | Order Number |
|-------------------|--------------------------|--------------------------------------|-------------------|---------------|-------------------|--------------------|---------------|
| 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 |
| 16 | Faston | Plastics ,no | Alu natural | F | non-illuminated | PSE M 16 NO K | 1241.2356 |
| 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 | Plastics ,no | red | F | non-illuminated | PSE M 16 NO K | 1241.2350 |
| 16 | Pins | Plastics ,no | white | F | non-illuminated | PSE M 16 NO K | 1241.2351 |
| 16 | Pins | Plastics ,no | Alu natural | F | non-illuminated | PSE M 16 NO K | 1241.2352 |
| 16 | Pins | Plastics ,no | black | F | non-illuminated | PSE M 16 NO K | 1241.2353 |
| 16 | Pins | Stainless Steel ,no | - | F | non-illuminated | PSE M 16 NO Alu/St | 1241.2611 |

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.

 Most Popular.

Availability for all products can be searched real-time:<https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Legend:

| Mounting Diameter | Terminal | Housing Material, Torsion Protection | Colour of Housing | Actuator area | Illumination, LED | Config. Code | Order Number |
|-----------------------|---|--------------------------------------|-------------------|---------------|-------------------|--------------|--------------|
| Type: PSE | | | | | | | |
| NO = normaly open | | | | | | | |
| K = Plastics | | | | | | | |
| Alu = Aluminium | | | | | | | |
| ES = Stainless steel | | | | | | | |
| 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 rings in a bag (enclosed in the box)

Accessories

Description



Connecting Terminal PSE
 Connecting Terminal



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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