Piezo Switch N.O.



PSE 19

Description

- Available in version Standard and lettered
- Assembly by mounting with nut
- Pins / Wire / Crimp Terminal male / Cable with 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

See below:

Approvals and Compliances

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
- 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-proof applications: Alternative: Other diameter Alternative: Other diameter PSE with cable; PSE NO 22 Alternative: switch with prolonged signal: PSE AE 16; PSE AE 30

Weblinks

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

Technical Data

momentary		
max. 42 / 60 VAC/DC		
max. 100 mA		
1 W		
20 million actuations at Rated Switching Capacity		
> 10 MΩ		
$< 20 \Omega$ actuated (Ta = 25°C)		
5 nF		
20- 1000 ms depending on actuating force, time and speed		
free polarity		
-		

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, Aluminum anodized
Actuating Area / Insert (with Ring Illumination)	Stainless Steel, Aluminum anodized
Illuminated Ring (Ring Illumi- nation)	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
0	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

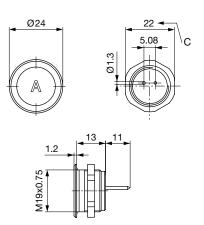
Compliances

The product complies with following Guide Lines

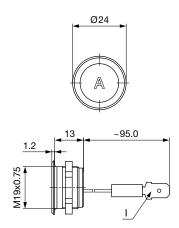
	ico with following colice Ellico		
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU 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 19 with Pins

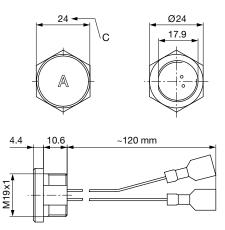


PSE M19 with Crimp Terminal male



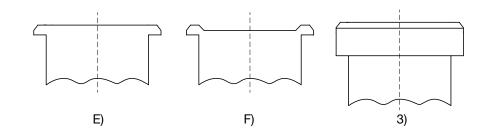
Version available on request

PSE M19 with Cable with Faston, elevated front design



Terminal: Crimp Terminal female Ultrafast red 6.3 x 0.8

Design actuating area



Legend:

- A = Illumination Area
- B = Actuating Area
- C = Width Across Flats
- I = Crimp Terminal male 6.3×0.8
- PI = Point Illumination

RI = Ring Illumination

Lettering:

- either with/without lettering

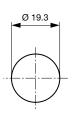
- position of the connections with respect to the position of the lettering is not defined

F) with finger guidance

E) without finger guidance3) elevated front design: M19 (standard, others on request)

Dimension

PSE 19



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 d	epends on the number of charact	ers	

Please note that the font size depends on the number of characters

Variants

Mounting Diameter	Terminal	Housing Material, Torsion Protection	Colour of Housing	Actuator area	Illumination, LED	Config. Code	Order Number
19	Pins	Aluminum ,no	Alu natural	F	non-illuminated	PSE M 19 NO	1241.3123
19	Pins	Stainless Steel ,no	-	F	non-illuminated	PSE M 19 NO	1241.3388
19	Cable with Faston	Aluminum ,yes	Alu natural	Elevated Front	non-illuminated	PSE M 19 NO	1241.5003

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

IV = prolonged signal

RU = PI = Point Illumination

RI = Ring Illumination

LE = Lettered

K = Plastics

Alu = Aluminium

ES = Stainless steel

F = Finger guidance

E = without finger guidance

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Packaging unit

10 in box with insert or packed in air cushion bags





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

Accessories

Description



Connecting_Terminal_PSE 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.