Piezo Switch N.O.



PSE M19

See below:

Approvals and Compliances

Description

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

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 proved applications: PSE EX 16; PSE EX

19; PSE EX 22

Alternative: Other diameter

Alternative: Other diameter PSE NO 22

Alternative: switch with prolonged signal: PSE AE 16; PSE AE 30

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

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	$< 20 \Omega$ 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)	

Machanical Data	
Mechanical Data	
Actuating Force	≤ 3 N at ambient temperature
Actuating Travel	0.002 mm
Shock Protection	IK 02
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	Stainless Steel, Aluminum anodized
Ring Illumination)	
Illuminated Ring (Ring Illumi-	Polyamide
nation)	

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
<u>IEC</u>	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information

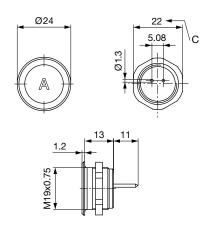
Compliances

The product complies with following Guide Lines

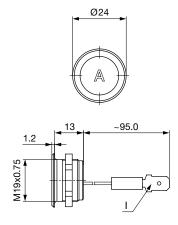
Identification	Details	Initiator	Description
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into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

Dimension [mm]

PSE M19 with Pins

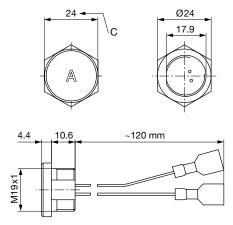


PSE M19 with Crimp Terminal male



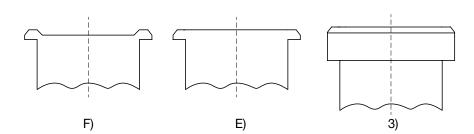
Version available on request

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 x 0.8

PI = Point Illumination RI = Ring Illumination

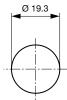
Lettering:

- 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 guidance 3) elevated front design: M19 (standard, others on request)

Dimension

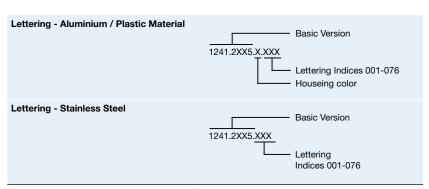
PSE M19



Drilling diagram

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	

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 = (1)
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	
19	Cable with Faston	Aluminum ,yes	Alu natural	Elevated Front	non-illuminated	PSE M 19 NO	1241.5003	
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	

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 10 pieces.

Most Popular.

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

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

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 (enclosd in the box)

Accessories

Description



Connecting Terminal PSE Connecting Terminal

Switches

Mouser Electronics

Authorized Distributor

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

Schurter:

1241.3123 1241.5003