Piezo Switch N.O.



PSE M19

Description

- Available in version Standard and lettered, from diameter 22 mm with Point Illumination or Ring Illumination
- Assembly by mounting with nut
- Pins, Wire, Crimp Terminal male or Cable with Faston

Approvals

- EMC: EMC directive 2004/108/EWG
- DGUV Test Certificate: FW 11040 Requirements for Food Processing Equipment
- MIL-STD Certificate Number: 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 Certificate Number: DIN EN 61000-4-2, DIN EN 61000-4-4, DIN EN 61000-4-5



Characteristics

- Housing material types: plastic, aluminum or stainless steel, ring illuminated version additionally made of polyamide
- Variety of design options regarding size, colour, shape, connection or lettering
- High reliability, long lifetime with more than 20 mill. actuations
- For use in harsh environments, both indoors and outdoors

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 - as keypad, type: Piezo Keypad

References

Alternative: switch with prolonged signal: PSE IV 19 Alternative: switch for EX proved applications: PSE EX 19

Weblinks

html-datasheet, General Product Information, CE declaration of conformity, RoHS, CHINA-RoHS, e-Shop, CAD-Drawings, Product News, Detailed request for product

Technical Data

Electrical Data			
Switching Function	N.O.		
Supply Voltage	12 / 24 VDC Ring Illumination, 24 VDC Point Illumination,		
Switching Voltage	max. 42 / 60 VAC/DC		
Switching Current	max. 100 mA		
Rated Breaking Capacity	1 W		
Lifetime	20 million 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		

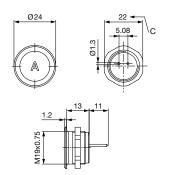
Mechanical Data			
Actuating Force	≤ 3 N at ambient temperature		
Actuating Travel	0.002 mm		
Shock Protection	IK 02		
Tightening Torque	2.5Nm		
Climatical Data			
Operating Temperature	-40 to +85 °C		
Storage Temperature	-40 to +85 °C		
IP-Protection	IP 67 Front Side submerged (1m wa- ter column), IP 69K Front side High Pressure cleaner test, front side / rear side DIN EN 60068-2-30 Db (Moist heat - air test with 55°C / 93% humidity)		
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, Aluminium anodized		
Illuminated Ring (Ring Illumi- nation)	Polyamide		

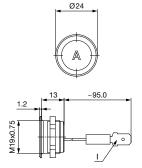
PSE NO 19

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Dimension PSE M19 with Pins

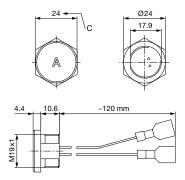
PSE M19 with Crimp Terminal male





Version available on request

PSE M19 with Cable with Faston, elevated front design



Terminal: Crimp Terminal female Ultrafast red 6.3 x 0.8

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:

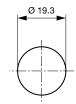
- either with/without lettering

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

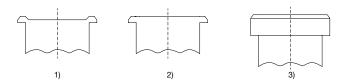
1) with finger guidance (standard)

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

Dimension PSE M19



Drilling diagram



PSE NO 19

Lettering

The last three digits in the order number define the lettering:				
001-076	Standard Lettering			
101-	Customized Lettering			
Lettering - Aluminium / Plastic Material	Basic Version 1241.2XX5.X.XXX Lettering Indices 001-076 Houseing color (Alu/Plastics)			
Lettering - Stainless Steel	Basic Version 1241.2XX5.XXX Lettering Indices 001-076			

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		
018 = R	038 = -	058 = ENTER		
019 = S	039 = .	059 = BACK		
020 = T	040 = x	060 = LINE		

PSE NO 19

www.schurter.com/PG70

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	
								÷

Legend: Type: PSE NO = normaly open IV = prolonged signal RU = PI = Point Illumination RI = Ring Illumination

RI = Ring Illum LE = Lettered

K = Plastics

Alu = Aluminium

ES = Stainless steel

F = Finger guidance

E = without finger guidance

Plastic nut with gasket are enclosed in the box.

Other mounting diameters, materials, colors, connections, supply voltages possible available on request. Special materials for use in salt and chlorinated environment on request.

Most Popular.

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

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

4 Switches

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.