Piezo Switch N.O.



PSE M19



Description

- Switch available in version Standard, with Lettering, starting from 22 mm diameter with Point Illumination or Ring Illumination - Assembly by mounting with nut - Pins, Wire, Crimp Terminal male or Cable with Faston

Approvals

- EMC directive 2004/108/EWG 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

Weblinks

html-datasheet, General Product Information, Approvals, RoHS, CHINA-RoHS, e-Shop, CAD-Drawings, Product News, Detailed request for product

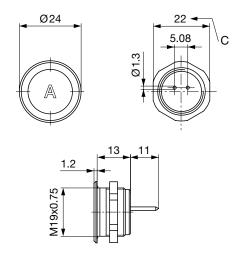
Technical Data

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 mill. at Rated Braking 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			

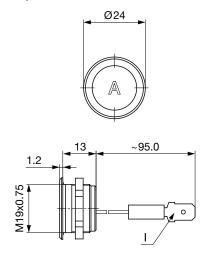
Mechanical Data				
Actuating Force	≤ 3 N at ambient temperature			
Actuating Travel	0.002 mm			
Shock Protection	IK 02			
Starting Torque	2.5 Nm			
Climatical Data				
Operating Temperature	-40 to +85°C			
Storage Temperature	-40 to +85°C			
IP-Protection	IP 67 , IP 69K from front side, front side / rear side DIN EN 60069-2-30 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 Illumination)	Polyamide			

Dimensions

PSE M19 with Pins

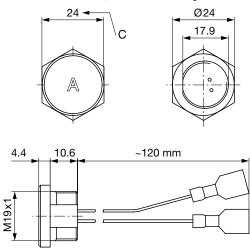


PSE M19 with Crimp Terminal male



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

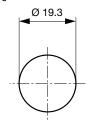
Lettering:

- either with/without lettering

- position of the connections with respect to the position of the lettering is not defined $% \left(1\right) =\left(1\right) \left(1$

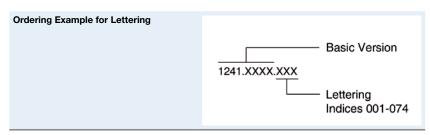
Dimensions

PSE M19



Lettering





Order Index Lettering

001 = A	021 = U	041 = ÷	061 = EIN
002 = B	022 = V	042 =	062 = AUS
003 = C	023 = W	043 = =	063 = AUF
$004 = \mathbf{D}$	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	

Variants

Mounting Diameter	Terminal	Housing Material, Twist Protection	Colour of Housing	Actuator area	Illumination, LED	Туре	Order Number
19	Cable with Faston	Aluminum ,yes	Alu natural	F	non-illuminated VDC	PSE 19	1241.5003
19	Pins	Aluminum ,no	Alu natural	F	non-illuminated	PSE 19	1241.3123
19	Pins	Stainless Steel ,no	-	F	non-illuminated	PSE 19	1241.3388

Legend:

Type: PI = RU = Point Illumination

RI = Ring Illumination

K = Plastics

Alu=Aluminium

ES = Stainless steel F = Finger guidance

E = without finger guidance

IV = prolonged signal

The nut with gasket are enclosed in the box.

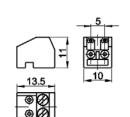
Other mounting diameters, materials, colors, connections, supply voltages as customized products possible. Special materials for use in salt and chlorine containing environment on request.





Accessories

Description



Connecting Terminal PSE NO Connecting Terminal for Pin Versions of PSE NO

PSE NO 0701.9225