Piezo Switch N.O.



PSE M19



Description

- Available in version Standard and lettered, from diameter 22 mm with Point Illumination or Ring Illumination
- Multicolor: flexible input voltage from 5 28 VDC at constant brightness
- with color combination RGB and RGY
- 7 possible colors with RGB configuration
- 3 possible colors with RGY configuration
- 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
- High reliability, long lifetime with more than 20 mill. actuations
- With multicolor ring illumination

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
- 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 AE 16; PSE AE 30 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

Weblinks

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

Technical Data

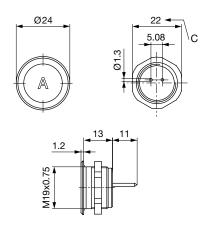
Electrical Data			
Switching Function	N.O.		
Supply Voltage	12 / 24 VDC Ring Illumination, 24		
	VDC Point Illumination,		
Supply Voltage Multicolor	5 - 28 VDC		
Switching Voltage	max. 42 / 60 VAC/DC		
Switching Current	max. 100 mA		
Rated Breaking Capacity	1 W		
Lifetime	20 million at Rated Switching 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	2.5 Nm			
Climatical Data				
Operating Temperature	-40 to +85 °C			
Storage Temperature	-40 to +85 °C			
IP-Protection	IP 67 acc. to IEC 60529, IP 69K 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, Aluminium anodized			
Illuminated Ring (Ring Illumination)	Polyamide			

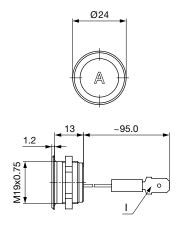
Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in General Product Information

Dimension

PSE M19 with Pins

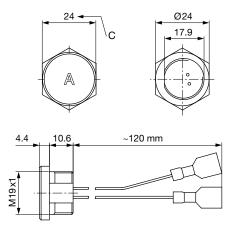


PSE M19 with Crimp Terminal male



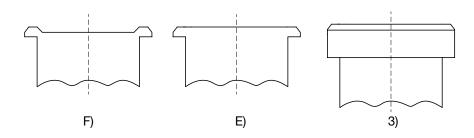
Version available on request

PSE M19 with Cable with Faston, elevated front design



Terminal: Crimp Terminal female Ultrafast red 6.3 x 0.8

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

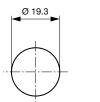
- either with/without lettering
 position of the connections with respect to the position of the lettering is not defined

F) with finger guidance

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

Dimension

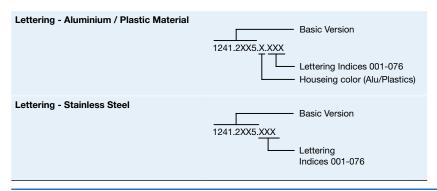
PSE M19



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	
$003 = \mathbf{C}$	023 = W	043 = =	063 = AUF	
$004 = \mathbf{D}$	024 = X	044 = #	064 = AB 065 = ON 066 = OFF 067 = UP	
005 = E	025 = Y	045 = ↔		
006 = F	026 = Z	046 = \$		
007 = G	027 = 0	047 = →		
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 = (1)	
018 = R	038 = -	058 = ENTER		
019 = S	039 = .	059 = BACK		
020 = T	040 = x	060 = LINE		

All Variants

Mounting		Tourism House Make del	Calarin of Harraina	A atriatay ayaa	Advistance III.		Order Number		
	ameter	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.

Most Popular.

Availability for all products can be searched real-time:http://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