Piezo Switch Prolonged Signal

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
- Easy to clean due to a tightly closed surface (IP 69K)

Characteristics
- Housing material: aluminum or stainless steel
- Piezo switch for a longer switching signal duration
- For use in harsh environments, both indoors and outdoors (see technical data)

Other versions on request
- Switch with short switching pulse, type: PSE NO
- Switch for explosion proof applications, type: PSE EX
- Switch with enhanced vandal proof protection, type: PSE HI

References
Alternative: switch normal operation: PSE NO 16; PSE NO 19; PSE NO 22; PSE NO 24; PSE NO 27; PSE NO 30
Alternative: Other diameter PSE IV 22; PSE IV 24; PSE IV 30

Weblinks
html data sheet, General Product Information, CAD-Drawings, Product News, Detailed request for product

Technical Data

Electrical Data

Switching Function	N.O.
Switching Voltage	max. 32 / 48 VAC/DC
Switching Current	max. 1 A
Electrical Rating	10 W
Lifetime	20 million actuations at Rated Switching Capacity
Switch Resistance OFF	> 10 MΩ
Switch Resistance ON	< 1 Ω
Capacity	30 pF
N.O. Closing Impulse Duration	15 sec depending on actuating force, time and speed. Longer impulse time up to 50 sec available on request.
Contact Configuration	free polarity

RGB Illumination

Current Consumtion (max per color)	-

Mechanical Data

Actuating Force	≤ 3 N at centric actuation
Actuating Travel	0.002 mm
Shock Protection	IK 02
Mounting screw torque	2.5 Nm

Climatical Data

Operating Temperature	-20 to +60 °C
Storage Temperature	-20 to +60 °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, Aluminium anodized, Polyamide
Actuating Area / Insert (with Ring Illumination)	Stainless Steel, Aluminum anodized
Illuminated Ring (Ring Illumination)	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.

Approvals

Approval Reference Type:

Approval Logo	Certification Body	Description
	EU	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		VDE Certificate Number: DIN EN 61000-4-2, DIN EN 61000-4-4, DIN EN 61000-4-5

Application standards
Application standards where the product can be used

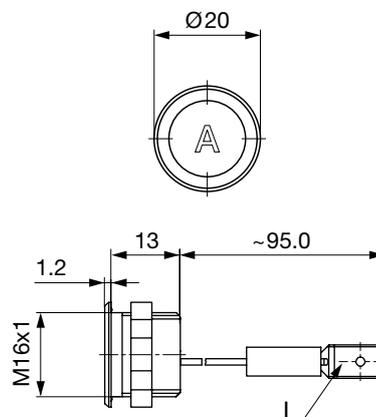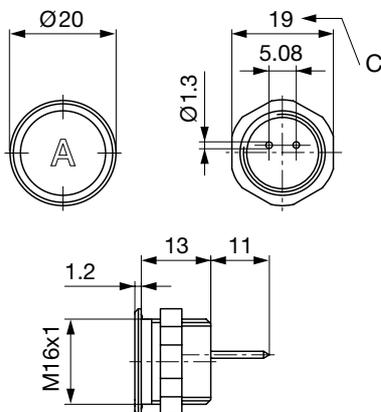| Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

Compliances
The product complies with following Guide Lines

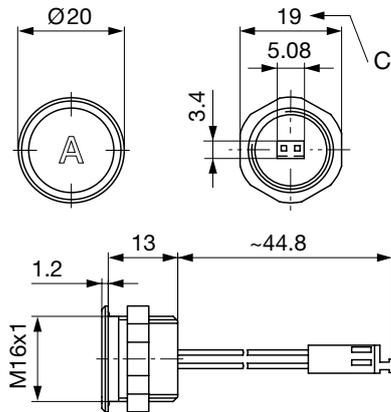| Identification	Details	Initiator	Description
RoHS COMPLIANT	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]
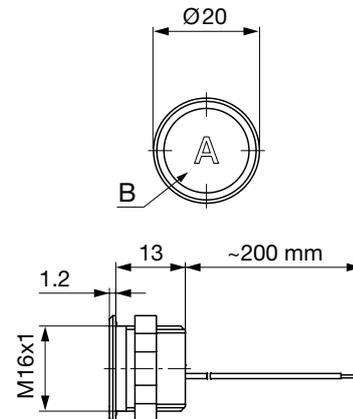PSE M16 with Pins   PSE M16 with Faston
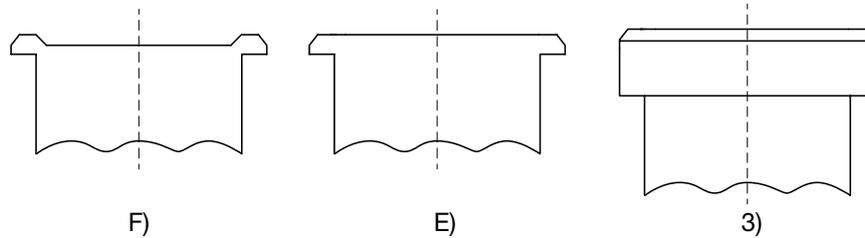

Version available on request

PSE M16 with AMP

Ø20   19   5.08   C   3.4

A

13   ~44.8   1.2   M16x1

Version available on request

Design actuating area

F)   E)   3)

PSE M16 with Wires

Ø20

A

B

13   ~200 mm   1.2   M16x1

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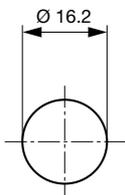- position of the connections with respect to the position of the lettering is not defined

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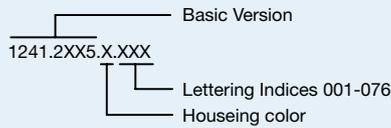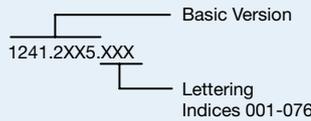
Dimension

PSE M16

Ø 16.2

Drilling diagram

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

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**	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
16	Flexible wire	Aluminum ,no	gold	F	non-illuminated	PSE M 16 IV	1241.3046.1
16	Flexible wire	Aluminum ,no	red	F	non-illuminated	PSE M 16 IV	1241.3046.3
16	Flexible wire	Aluminum ,no	blue	F	non-illuminated	PSE M 16 IV	1241.3046.4
16	Flexible wire	Aluminum ,no	green	F	non-illuminated	PSE M 16 IV	1241.3046.5
16	Flexible wire	Aluminum ,no	black	F	non-illuminated	PSE M 16 IV	1241.3046.7

Mounting Diameter	Terminal	Housing Material, Torsion Protection	Colour of Housing	Actuator area	Illumination, LED	Config. Code	Order Number
16	Flexible wire	Aluminum ,no	Alu natural	F	non-illuminated	PSE M 16 IV	1241.3046.8
16	Quick Connect Terminal	Aluminum ,no	gold	F	non-illuminated	PSE M 16 IV	1241.2434.1
16	Quick Connect Terminal	Aluminum ,no	red	F	non-illuminated	PSE M 16 IV	1241.2434.3
16	Quick Connect Terminal	Aluminum ,no	blue	F	non-illuminated	PSE M 16 IV	1241.2434.4
16	Quick Connect Terminal	Aluminum ,no	green	F	non-illuminated	PSE M 16 IV	1241.2434.5
16	Quick Connect Terminal	Aluminum ,no	black	F	non-illuminated	PSE M 16 IV	1241.2434.7
16	Quick Connect Terminal	Aluminum ,no	Alu natural	F	non-illuminated	PSE M 16 IV	1241.2434.8

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

13.02.2019