Piezo Switch with Extended Protection against Vandalism







PSE M22 HI Embossed

PSE M22 HI Braille

PSE M22 HI VS

Description

- Momentary switch available in version Standard or with Lettering/Sym-
- Assembly by mounting with nut
- Quick connect terminals or wires

Approvals

- Fire Test according to DIN EN 81-71: stress class 1 + 2 (Elevators)
 MIL-STD Certificate Number: 416D Method RS103
- VDE Certificate Number: DIN EN 61000-4-2, DIN EN 61000-4-4

Characteristics

- Housing and actuating area material: high-quality stainless steel, optional aluminium anodized in various colours
- Laser lettering, embossed symbols, Braille, standard or customized characters and symbols
- High reliability, long lifetime with more than 20 mill. actuations
- piezo switch with enhanced vandal proof protection to IK 06 impact resistance rating
- For use in harsh environments, both indoors and outdoors

References

Alternative: Standard version PSE NO 22

Alternative: switch with prolonged signal: PSE IV 22

Weblinks

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

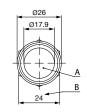
Technical Data

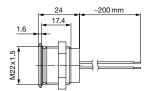
Electrical Data					
Switching Function	N.O.				
Switching Voltage	max. 42 / 60 VAC/DC				
Switching Current	max. 100 mA				
Rated Breaking Capacity	1 W				
Lifetime	20 million at Rated Switching Capacity				
Switch Resistance OFF	$> 10 \text{ M}\Omega$				
Switch Resistance ON	< 20 Ω				
Capacity	30 pF				
N.O. Closing Impulse Duration	20- 1000 ms depending on actuating				
	force, time and speed				
Contact Configuration	free polarity				

Mechanical Data	
Actuating Force	2 - 5 N
Actuating Travel	0.002 mm
Shock Protection	IK 06
Tightening Torque	2.5 Nm
Climatical Data	
Operating Temperature	-20 to +60°C
Storage Temperature	-20 to +60°C
IP-Protection	IP 67 Front Side submerged (1m water column), , 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	Stainless Steel
Actuating Area	Stainless Steel, Aluminium anodized for embossed symbols and Braille

Dimension

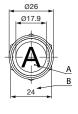
PSE M22 HI Standard with stranded wire (without anti-rotation)

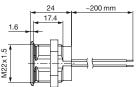




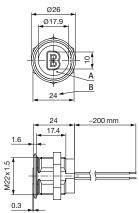
PSE M22 HI Embossed marking with stranded wire (with anti-rotation)

PSE M22 HI Laser marking with stranded wire (with anti-rotation)

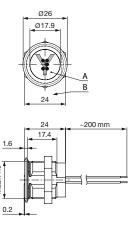




PSE M22 HI Braille marking with stranded wire (with anti-rotation)



Either with/without embossed characters or smbols in various colors



With Braille and Laser marking in various colors

Legend:

A = Actuating area

B = Width across flats

- Wire (Standard: 0.14 mm² / 200 mm wire-length)

Lettering:

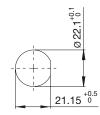
- Either with/without lettering
- Position of the connections with respect to the position of the lettering is not defined

Dimension

PSE M22 without anti-rotation

PSE M22 with anti-rotation

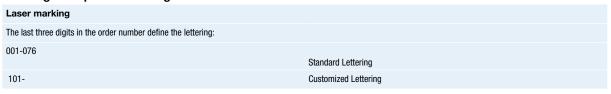


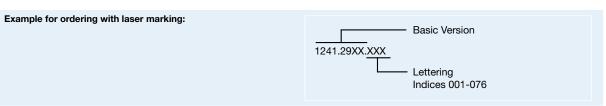


Lettering Colour of Laser Lettering

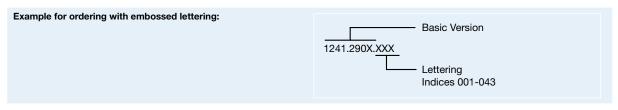
Material	Lettering Colour			
Stainless Steel	black	Filled letters		
Aluminium	white	Filled letters		

Ordering Example for Lettering

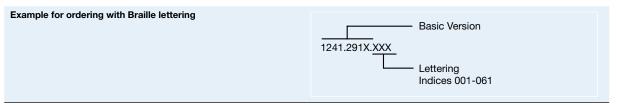












Order Index Lettering

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	

Order Index Lettering

Erhabene Symbole /	Embossed Lettering	
000 = Dummy	017 = Q	034 = 7
001 = A	018 = R	035 = 8
002 = B	019 = S	036 = 9
$003 = \mathbf{C}$	020 = T	037 =
004 = D	021 = U	038 = -
005 = E	022 = V	039 = ↑
006 = F	023 = W	040 = ↓
007 = G	024 = X	041 = ←
008 = H	025 = Y	042 = →
009 = I	026 = Z	043 = (1)
010 = J	027 = 0	
011 = K	028 = 1	
012 = L	029 = 2	
013 = M	030 = 3	
014 = N	031 = 4	
015 = O	032 = 5	
016 = P	033 = 6	

Order Index Lettering

Braille Marking	Order Index	Order Index Lettering						
02	Braille Marking							
003 = C = 0 0 019 = S = 0 035 = 8 = 0 0 051 = : = 0 0 0 051 = : = 0 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 0 051 = : = 0 051	001 = A =	00	017 = Q =		033 = 6 =	$\circ \bullet \bullet \circ$		0
004 = D =	002 = B =	\bullet \circ	018 = R =		034 = 7 =	$\circ \bullet \bullet \bullet$	050 = . =	00
005 = E =	003 = C =	00	019 = S =		035 = 8 =	$\circ \bullet \bullet \bullet$	051 = : =	
006 = F =	004 = D =	\circ	020 = T =		036 = 9 =	$\circ \bullet \bullet \circ$	052 = , =	
007 - G = 0 023 - W = 039 - CH = 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 055 = 1 = 0 0 008 - H = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	005 = E =	\circ	021 = U =	00	037 = B =		053 = ; =	lacktriangle
008 = H =	006 = F =	\bullet \circ	022 = V =	• 0	038 = ST =	• •	054 = ? =	\bullet \circ
009 = I =	007 = G =		023 = W =		039 = CH =	\circ	055 = ! =	
010 = J = 026 = Z = 042 = IE = 057 = 0 = 057 = 0 = 051 = K = 057 = 0 = 059 = ,, = 059 =	008 = H =	\bullet	024 = X =	00	040 = SCH =	$\bigcirc lack$	056 = - =	00
011 = K = 0 0 027 = 0 = 0 043 = Ä = 0 059 = ,, = 0 0 060 = " = 0 0 060 = " = 0 0 060 = " = 0 0 060 = " = 0 060 = "	009 = I =	\bullet \circ	025 = Y =		041 = EI =	00	057 = ' =	00
012 = L =	010 = J =	• •	026 = Z =		042 = IE =	00	057 = () =	○ ○ • • • •
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	011 = K =	00	027 = 0 =		043 = Ä =	\circ	059 = ,, =	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	012 = L =	lacktriangle	028 = 1 =	$\circ \bullet \circ \circ$	044 = Ö =	lacktriangle	060 = '' =	$\bigcirc \bullet$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	013 = M =	ŌŌ	029 = 2 =	$\circ \bullet \bullet \circ$	045 = Ü =	\bullet	061 = * =	$\bigcirc \bullet$
$016 = \mathbf{P} = \begin{array}{c} & & & & & & & & & & & & & & & & & & &$	014 = N =	\bigcirc $lacktriangle$	030 = 3 =	0 0 0	046 = AU =	00		
\bullet \circ \circ \bullet \circ \bullet \circ \circ	015 = O =	$\bigcirc lackbox{lack}$	031 = 4 =	$\circ \bullet \circ \bullet$	047 = EU =	lacktriangle		
	016 = P =	lacktriangle	032 = 5 =	$\circ \bullet \circ \bullet$	048 = ÄU =	00		

All Variants

Mounting Diame- ter [mm]	Terminal	Housing Material, Torsion Protection	Actuator area	Lettering	Config. Code	Order Number
22	Flexible wire	Stainless Steel ,yes	Alu red	embossed	PSE M 22 HI VS	1241.2903.002
22	Flexible wire	Stainless Steel ,yes	Alu green	embossed	PSE M 22 HI VS	1241.2904.028
22	Flexible wire	Stainless Steel ,yes	Alu green	embossed	PSE M 22 HI VS	1241.2904.041
22	Flexible wire	Stainless Steel ,yes	Alu green	embossed	PSE M 22 HI VS	1241.2904.042
22	Flexible wire	Stainless Steel ,yes	Alu natural	embossed	PSE M 22 HI VS	1241.2905.042
22	Flexible wire	Stainless Steel ,yes	Alu blue	bra / las	PSE M 22 HI VS	1241.2913.025
22	Flexible wire	Alu green ,yes	Alu green	laser printed	PSE M 22 HI VS	1241.2924.074
22	Flexible wire	Stainless Steel ,no	Stainless Steel	no	PSE M 22 HI ST	1241.3993

Legend:

Type:

HI = High Impact

VS = anti rotation protection for lettering

Metal nut with gasket are enclosed in the box.

The listed item numbers represent a selection of the range of piezo switches. Other mounting diameters, materials, colors, connections and symbols are available on request. Special materials for use in salt and chlorinated environment on request.

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



- Actuating elements in ESD safe packaging Screw nuts and sealing rings in a bag (enclosd in the box)