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PSE IV 22

Piezo Switch Prolonged Signal





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 Easy to clean due to a tightly closed surface (IP 69K)
- piezo switch for a longer switching signal duration
- For use in harsh environments, both indoors and outdoors

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
- as keypad, type: Piezo Keypad

Weblinks

Input Systems

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

Technical Data

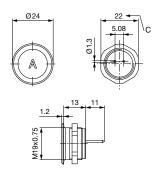
Electrical Data	
Switching Function	N.O.
Supply Voltage	Ring Illumination VDC 12 / 24, 24
	VDC Point Illumination,
Switching Voltage	max. 32 / 48 VAC/DC
Switching Current	max. 1 A
Rated Breaking Capacity	10 W
Lifetime	20 mill. at Rated Braking Capacity
Switch Resistance OFF	> 10 MΩ
Switch Resistance 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

Mechanical Data			
Actuating Force	3 - 5 N		
Actuating Travel	0.002 mm		
Shock Protection	IK 02		
Starting Torque	2.5 Nm		
Climatical Data			
Operating Temperature	-20 to +60 °C		
Storage Temperature	-20 to +60 °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 Illumi- nation)	Polyamide		





Dimensions PSE M19 with Pins

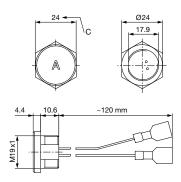


Version available on request

Version available on request

PSE M22 with Wire

PSE M19 with Cable with Faston, elevated front design



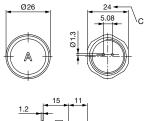
1.2 -95.0 5/0061

Ø24

Version available on request

PSE M19 with Crimp Terminal male

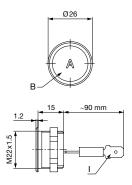
PSE M22 with Pins





Version available on request

PSE M22 with Crimp Terminal male



Version available on request



Ø26

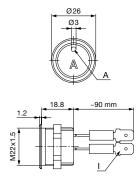
1.2

M22x1.5

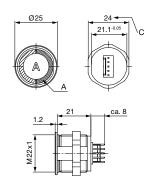
~200 mm

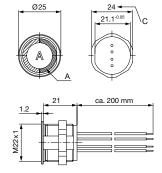


PSE M22 PI with Crimp Terminal male



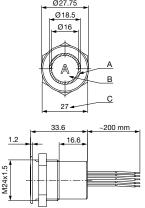
PSE M22 RI with Plug Connector





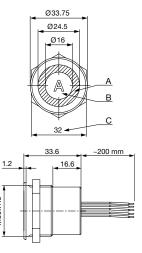
PSE M24 RI

PSE M22 RI with Wires



Version available on request

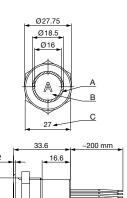
PSE M30 RI



Version available on request

Input Systems

M30x1.5



Ø30.75 Ø21.5 Ø16 B С 30 -33.6 ~200 mm 1.2 16.6 M27×1.5

Version available on request

Version available on request

PSE M27 RI

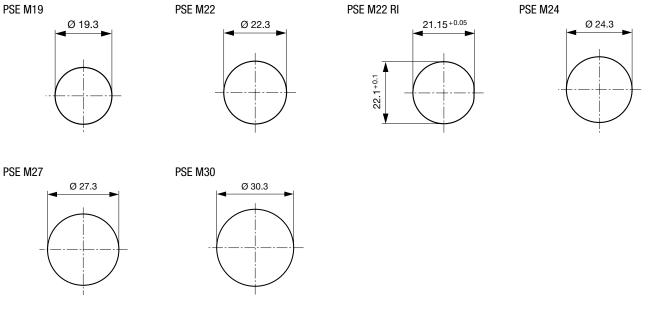


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Legend: A = Illumination Area B = Actuating Area C = Width Across Flats $I = Crimp Terminal male 6.3 \times 0.8$ PI = Point Illumination RI = Ring Illumination

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

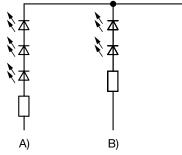
Dimensions





Diagrams

PSE M24 RI / PSE M27 RI / PSE M30 RI, 12/24 V



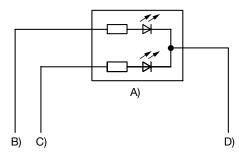
NO D)

A) Cable 1 (color of the LEDs), Supply voltage first LED group B) Cable 3 (color of the LEDs), Supply voltage second LED group C) Cable 2 (black), Common mass of both LED groups

C)

D) Cable 4 and 5 (white), Input and output PSE switch

PSE PI



NO E)

A) Double-LED (2 colors, 3 pins) or simple LED (2 pins)

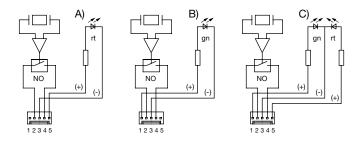
B) Cable 1 (color 1 of the LED), Supply voltage

C) Cable 2 (color 2 of the LED), Supply voltage

D) Cable 3 (black), Mass

E) Cable 4 and 5 (white), Input and output PSE switch

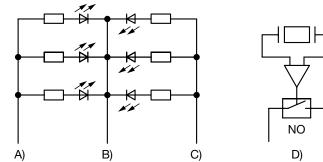
PSE M22 RI with Quick Connect Terminal, 12/24 V



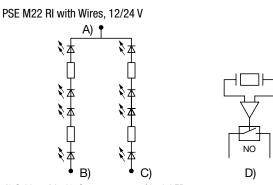
A) Illuminated red B) Illuminated green

C) Illuminated red/green

PSE M24 RI / PSE M27 RI / PSE M30 RI, 5 V



A) Cable 1 (color of the LEDs), Supply voltage first LED group B) Cable 2 (black), Common mass of both LED groups C) Cable 3 (color of the LEDs), Supply voltage second LED group D) Cable 4 and 5 (white), Input and output PSE switch



A) Cable 5 (black), Common mass of both LED groups B) Cable 1 (color of the LEDs), Supply voltage first LED group C) Cable 2 (color of the LEDs), Supply voltage second LED group D) Cable 3 and 4 (white), Input and output PSE switch



Metal Line Switches

Lettering

The last three digits in the order number define the lettering:				
001-074	Standard Lettering			
101-	Customized Lettering			
Ordering Example for Lettering				
	1241.XXXX.XXX			
	Lettering Indices 001-074			

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 = 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
22	Flexible wire	Aluminum ,	Alu natural	F	non-illuminated	PSE 22 IV	1241.3998
22	Flexible wire	Aluminum ,	Alu natural	E	Ring Illumination, green, 12 VDC	PSE 22 IV RI	1241.3331
22	Flexible wire	Aluminum,	Alu natural	E	Ring Illumination, red, 12 VDC	PSE 22 IV RI	1241.3330
22	Flexible wire	Aluminum,	Alu natural	E	Ring Illumination, green, 24 VDC	PSE 22 IV RI	1241.3334
22	Flexible wire	Aluminum,	Alu natural	E	Ring Illumination, red / green, 24 VDC	PSE 22 IV RI	1241.3335
22	Flexible wire	Aluminum ,	Alu natural	E	Ring Illumination, red, 24 VDC	PSE 22 IV RI	1241.3333
22	Flexible wire	Stainless Steel,	-	E	non-illuminated	PSE 22 IV	1241.2445

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.

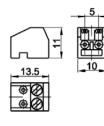
Other mounting diameters, materials, colors, connections, supply voltages as customized products possible. Special materials for use in salt and chlorine containing environment on request.



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Accessories

Description



Connecting Terminal PSE IV Connecting Terminal for Pin Versions of PSE IV PSE IV

0701.9225

PSE IV 22

