Piezo Switch N.O.



PSE M24 RI red

PSE M24 RI Multicolor



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 color combinations with RGB 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 lettering
- 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 IV 24

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

Technical Data

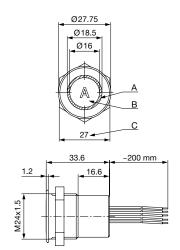
Electrical Data				
Switching Function	N.O.			
Supply Voltage	12 / 24 VDC Ring Illumination, 24			
	VDC Point Illumination,			
Supply Voltage Multicolor	5 - 28 VDC			
Switching Voltage	max. 42 / 60 VAC/DC			
Switching Current	max. 100 mA			
Rated Breaking Capacity	1 W			
Lifetime	20 million at Rated 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			

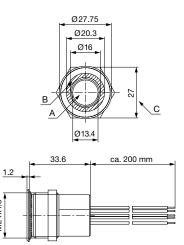
Mechanical Data	
Actuating Force	≤ 3 N at ambient temperature
Actuating Travel	0.002 mm
Shock Protection	IK 02
Tightening Torque	2.5 Nm
Climatical Data	
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85 °C
IP-Protection	IP 67 Front Side submerged (1m water column), IP 69K Front side High Pressure cleaner test, 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 (depending on type)	Stainless Steel, Aluminium anodized, Polyamide
Actuating Area / Insert (with Ring Illumination)	Stainless Steel, Aluminium anodized
Illuminated Ring (Ring Illumi- nation)	Polyamide

Dimension

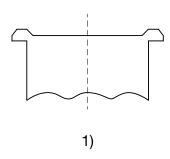
PSE M24 RI

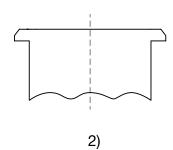
PSE M24 RI Multicolor with wires and with finger guidance

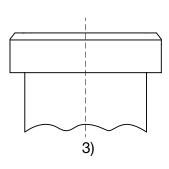




Design actuating area







Legend:

A = Illumination Area

B = Actuating Area

C = Width Across Flats

I = Crimp Terminal male 6.3 x 0.8

PI = Point Illumination

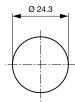
RI = Ring Illumination

Lettering:

- either with/without lettering
- position of the connections with respect to the position of the lettering is not defined
- 1) with finger guidance (standard)
- 2) without finger guidance (on request)
 3) elevated front design: M19 (standard, others on request)

Dimension

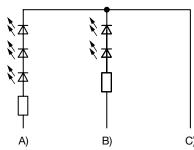
PSE M24

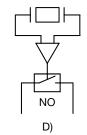


Drilling diagram

Diagrams

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



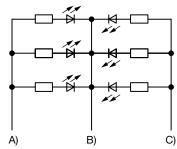


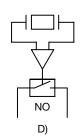
- A) Cable 1 (color of the LEDs), Supply voltage first LED group
- B) Cable 3 (color of the LEDs), Supply voltage second LED group
- C) Cable 2 (black), Common mass of both LED groups
- D) Cable 4 and 5 (white), Input and output PSE switch

PI = point illumination

RI = ring illumination

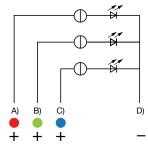
PSE M24 RI / PSE M27 RI / PSE M30 RI, 5 V

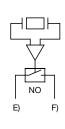




- A) Cable 1 (color of the LEDs), Supply voltage first LED group
- B) Cable 2 (black), Common mass of both LED groups
- C) Cable 3 (color of the LEDs), Supply voltage second LED group
- D) Cable 4 and 5 (white), Input and output PSE switch

PSE M22 / M24 / M27 / M30 RI Multicolor





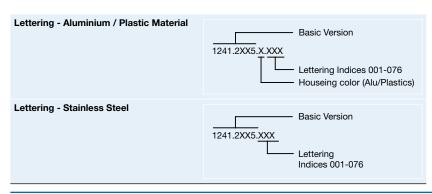
- A) Cable 1 (color of the LED), Supply voltage
- B) Cable 2 (color of the LED), Supply voltage
- C) Cable 3 (color of the LED), Supply voltage
- D) Cable 4 (black), Common mass
- E) Cable 5/6 (white), Input and output PSE switch
- F) Cable 5/6 (white), Input and output PSE switch

Lighting options Multicolor

Lighting type	Active terminal A)	Active terminal B)	Active terminal C)	Resulting Color
Multicolor Singlecolor	А			Red 🛑
Multicolor Singlecolor		В		Green 🛑
Multicolor Singlecolor			С	Blue
Multicolor RGB Additive 2	Α	В		Yellow —
Multicolor RGB Additive 2	Α		С	Magenta 🛑
Multicolor RGB Additive 2		В	С	Cyan 🔵
Multicolor RGB Additive 3	Α	В	С	White 🔘

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 = 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	

All Variants

Mounting Diameter	Terminal	Housing Material, Torsion Protection	Colour of Housing	Actuator area	Illumination, LED	Config. Code	Order Number
24	Flexible wire	Aluminum ,no	Alu natural	F	Ring Illumination, red / green, 12 VDC	PSE M 24 NO RI	1241.3134
24	Flexible wire	Aluminum ,no	Alu natural	F	Ring Illumination, red / green, 24 VDC	PSE M 24 NO RI	1241.3010
24	Flexible wire	Aluminum ,no	Alu natural	F	Ring Illumination, red / green / blue, 5 - 28 VDC	PSE M 24 NO RI	1241.3665

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

Plastic 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

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 (enclosed in the box)

Accessories

Description



Connecting Terminal PSE Connecting Terminal