Piezo Switch N.O.





PSE M22 with cable PUR

PSE M30 with cable PUR

Description

- Designed for IP67 applications
- Tight housing, potted PUR-Cable
- Switch with Ring Illumination
- PUR-Cable with 15m length
- RGB: flexible input voltage 5 28 VDC at constant brightness
- 7 possible colors with RGB configuration

Unique Selling Proposition

- Designed for IP67 applications
- Waterproof from the front surface to the connection point
- High quality PUR cable 15m
- RGB illumination and variable input voltage

See below: Approvals and Compliances

Characteristics

- Housing material: stainless steel 1.4462, ring illumination made of polyamide
- For use in harsh environments, both indoors and outdoors (see technical data)

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

References

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 Alternative: switch with prolonged signal: PSE AE 16; PSE AE 30; PSE IV 19

Weblinks

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

Technical Data

Electrical Data	
Switching Function	momentary
Supply Voltage RGB	5 - 28 VDC
Switching Voltage	max. 42 / 60 VAC/DC
Switching Current	max. 100 mA
Electrical Rating	1 W
Lifetime	20 million actuations 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
RGB Illumination	
Current Consumtion (max per color)	16.5 mA @ 5 VDC
	8.2 mA @ 12 VDC
	5.5 mA @ 24 VDC
	4.8 mA @ 28 VDC

≤ 3 N at ambient temperature
0.002 mm
IK02
2.5 Nm
-40 to 85 °C
-40 to 85 °C
IP67 acc. to IEC 60529, IP69K acc. to DIN 40050-9
+55°C / 93% r.h. acc. to DIN EN 60068-2-30
24 h / 48 h / 96 h Residence Time
Stainless Steel 1.4462
Stainless Steel 1.4462
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	е Туре:	
Approval Logo	Certification Body	Description
•		DGUV Test Certificate: FW 11040 Requirements for Food Processing Equipment
Application star	ndards rds where the product can be u	isad

Organization Description Design Standard EMC: EMC directive 2004/108/EWG Designed for applications acc. MIL-STD Certificate Number: 202F Method 107G, 202F Method 204D, 202F Method 213B, 416D Designed for applications acc. \odot Method RS103, 810E Method 501.3, 810E Method 502.3, 810E Method 507.3 Designed for applications acc. VDE Certificate Number: DIN EN 61000-4-2, DIN EN 61000-4-4, DIN EN 61000-4-5 VDE IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment. IEC/UL 62368-1 Designed for applications acc. <u>IEC</u>

Compliances

The product complies with following Guide Lines

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Identification	Details	Initiator	Description
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
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 M22 with 15m cable PUR



PSE M30 with cable PUR



Design actuating area



Legend: A = Illumination Area

B = Width Across Flats

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

Dimension



Diagrams

PSE with cable



A)Pink cable - red LED B)Green cable - green LED C)Yellow cable - blue LEDD) Cable 4 brown E) Cable 5/6 white F) Cable 5/6 grey

Cable specification

Cable rolled up to a diameter of ca. 200mm. Ends 100-200mm loose.



6 x 0.25mm² Lenght: 1500mm +/- 50mm Wire colors: white / grey / brown / pink / green / yellow End: 25mm dismanteled 4mm stripped and tin coated

All Variants

Cable PUR black

Mounting Dia- meter [mm]	Terminal	Housing Material, Tor- sion Protection	Colour of Hou- sing	Actuator area	Illumination, LED	Config. Code	Order Number
22	PUR cable	Stainless Steel ,no	-	E	RI, RGB	PSE M 22 NO RI	3-105-290
30	PUR cable	Stainless Steel ,no	-	E	RI, RGB	PSE M 30 NO RI	3-102-521

Nut with gasket are enclosed in the box.

Other mounting diameters, materials, colors, connections, supply voltages possible available on request.

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

Type: PSE

NO = normaly open

RI = Ring Illumination

ES = Stainless steel

F = Finger guidance

E = without finger guidance

Packaging unit

1 in box with insert or packed in air cushion bags

Lighting type

Illumination options for RGB

Lighting type	Active terminal A)	Active terminal B)	Active terminal C)	Resulting Color
Multicolor Singlecolor	A			Red 🔴
Multicolor Singlecolor		В		Green 🔴
Multicolor Singlecolor			С	Blue 🔵
Multicolor RGB Additive 2	A	В		Yellow 😑
Multicolor RGB Additive 2	A		С	Magenta 🔴
Multicolor RGB Additive 2		В	С	Cyan 🔵
Multicolor RGB Additive 3	A	В	С	White O



Actuating elements in ESD safe packaging
Screw nuts and sealing O-ring in a bag (enclosed in the box)