Metal Switch with Ceramic Actuator, Switching Voltage up to 30 VDC / 250 VAC







See below:

#### **Approvals and Compliances**

#### **Description**

- Momentary action switch available in version: Standard (ST), with Lettering (LE), with Backlighting (BL)
- Single color or RGB illumination
- Choice from 7 colors for RGB variants Assembly method: clip microswitch into the saddle, secure switch using mounting nut
- Equipped with flat-pin plugs to permit fast connection

## **Unique Selling Proposition**

- Attractive tactile feedback
- High quality materials
- Long life span
- Single color or homogeneous multicolor illumination

#### **Characteristics**

- Housing material: high-quality stainless steel, actuator material: highly durable ceramic
- Variety of design options regarding size, colour, illumination, connection or lettering
- Switching voltage from 30 VDC to 250 VAC, switching current from 0.1 A to 10 A
- Backlighting optional, this means the complete actuator surface is fully illuminated
- IP-Protection: IP65 from front side to contact area, Micro-Switch is available in versions IP40 or IP67, moving actuator is rated IP40 to frontside
- For use in harsh environments (see technical data)

### References

Alternative: double-pole switch

Alternative: switch with latching function: MSM LA CS 22

Alternative: Other diameter

Alternative: switch with ring illumination: MSM LA 22; MSM 22

Alternative: Standard version

### Weblinks

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

Technical Data	Tec	hnical	Data
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lechnical Data	
Electrical Data	
Switching Function	momentary
Number of Poles	SPDT
Supply Voltage	24 VDC Illumination area
Micro Switch 5 A / 125 VAC	or 3 A / 250 VAC, IP40
Contact Material	Ag
Switching Voltage	max. 125/250 VAC
Switching Current	max. 5 / 3 A
Rated Switching Capacity	750 W
Lifetime	0.2 million actuations at Rated Swit-
	ching Capacity
Contact Resistance	< 30 mΩ
Insulation Resistance	> 100 MΩ
Duration of Bounce	< 5 ms
Micro Switch 0,1 A / 30 VDC	
Contact Material	Au
Switching Voltage	max. 30 VDC
Switching Current	max. 0.1 A
Rated Switching Capacity	3 W
Lifetime	0.2 million actuations at Rated Swit-
	ching Capacity
Contact Resistance	< 50 mΩ
Insulation Resistance	> 100 MΩ
	< 5 ms
Duration of Bounce	< 5 ms Rating 10 A / 250 VAC (Protection Class
Duration of Bounce	< 5 ms Rating 10 A / 250 VAC (Protection Class
Duration of Bounce Micro Switch for Electrical I	
Duration of Bounce Micro Switch for Electrical I IP40)	Rating 10 A / 250 VAC (Protection Class
Duration of Bounce Micro Switch for Electrical I IP40) Contact Material	Rating 10 A / 250 VAC (Protection Class  Ag
Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage	Ag max. 250 VAC Protection Class
Duration of Bounce  Micro Switch for Electrical I IP40)  Contact Material Switching Voltage Switching Current	Ag max. 250 VAC max. 10 A
Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity	Ag max. 250 VAC max. 10 A 2500 W
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Mechanical Data	
Actuating Force	4.5 N
Actuating Travel	1.0 mm
Lifetime	1.5 million actuations
Shock Protection	IK07
Mounting screw torque Plastic Nut	max. 3.5 Nm
Mounting screw torque Stain- less Steel Nut	max. 16 Nm
Climatical Data	
Operating Temperature	-25 to 85°C
Storage Temperature	-25 to 85 °C
IP Protection Class	IP65
Switching Unit	IP40
	IP67 optional
Salt Spray Test (acc. to DIN 50021-SS)	24 h / 48 h / 96 h Residence Time
Material	
Housing	Stainless Steel
Actuator	Ceramic (Zirconium Dioxide)
Seal Ring	NBR70
Switcher Collet	PA
Plastic Nut	PA, UL94

# **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.

# **Product standards**

Product standards that are referenced

Organization	Design	Standard	Description
DIN	Designed according to	DIN EN 61058-1	Switches for appliances. Part 1. General requirements
(UL)	Designed according to	UL 1054	UL standard for safety special-use switches

## **Application standards**

Application standards where the product can be used

Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

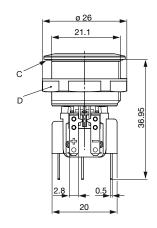
### Compliances

The product complies with following Guide Lines

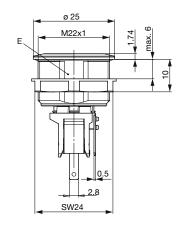
	ldentification	Details	Initiator	Description
	RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
•	REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

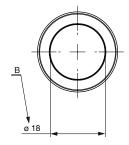
# Dimension [mm]

MSM 22 CS ST

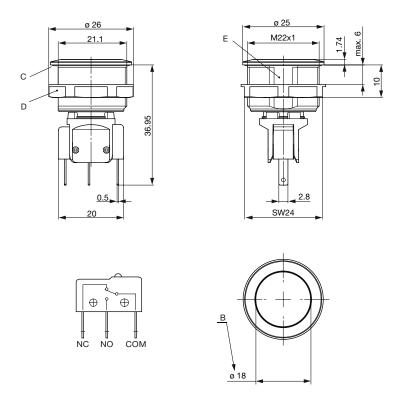




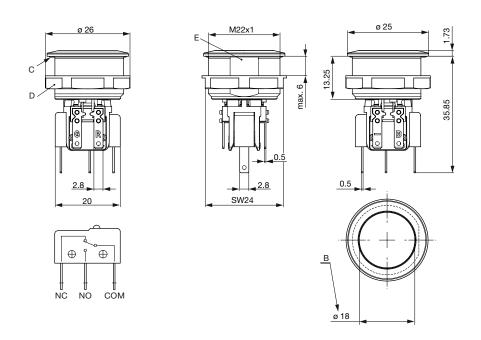




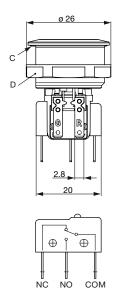
# MSM 22 CS LE

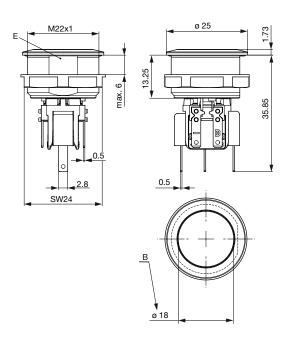


MSM 22 CS Al Single color



## MSM 22 CS AI RGB



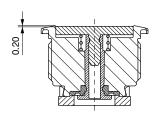


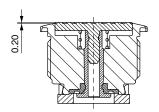
#### Legend

- B = Actuating Area C = Sealing
- D = Nut
- E = Anti-rotation protection
- L = Illuminated area

### **Tolerance Range**

# Actuator Tolerance Range





The mounting tolerance range of the actuator varies from 0.2 mm projection length and 0.2 mm short length to the housing edge. The slanting position of the actuator can range within this tolerance.

## **Dimension**

MSM 22 CS ST

MSM 22 CS LE / MSM 22 CS BL

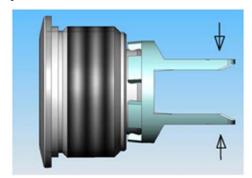




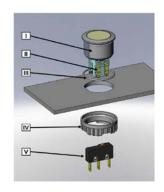
Drilling diagram

Drilling diagram

### **Assembly Instructions**



During assembly, the protruding bars of the holder should not be pressed together.



I Housing

II Flat Pin Terminal (Illumination)

III Gasket

IV Nut (Nut type see Dimensions)

V Module Switching Contact

#### Installation Instruction:

- 1.) Place the gasket accurately on the actuator housing. Then mount the actuator housing assembly into the panel.
- 2.) Tighten the screw nut according to the torque instructions.
- 3.) Clasp the module switching contact into the micro switch holder of the actuator housing.

#### Installation information:

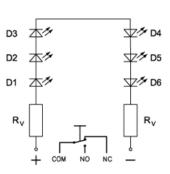
- 1.) The power supply and the configuration of the flat pin terminals have to be installed correctly for the illumination and micro switch function.
  2.) Insulate the terminals as required. Fully insulated plug-in sleeves are recommended.
- 3.) Installation instructions according to VDE-standard DIN VDE 0100-100 or alternatively IEC 60354 standard.

### **Diagrams**

## MSM CS ST / MSM CS LE

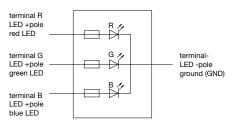


# MSM CS BL Single color



## MSM RI / 24 V RGB

terminal assignment with resistors for 24 VDC





Lighting type	Active terminal R)	Active terminal G)	Active terminal B)	Resulting Color
Singlecolor	х			Red 🛑
Singlecolor		х		Green 🛑
Singlecolor			х	Blue
RGB Additive 2	х	х		Yellow —
RGB Additive 2	х		х	Magenta 🛑
RGB Additive 2		х	х	Cyan 🔵
RGB Additive 3	х	х	х	White 🔘

Illumination options for RGB

## Marking

The last three digits in the order number define the lettering:				
000	No Lettering			
001-074	Standard Lettering			
101-	Customized Lettering			

# **Lettering Colour of Laser Lettering**

Material	Lettering Colour	
Ceramic	black	Filled letters

# **Order Index Lettering**

Oraci mack Ecttering	9		
Laser Marking			
001 = <b>A</b>	021 = <b>U</b>	041 =÷	061 = <b>EIN</b>
002 = <b>B</b>	022 = <b>V</b>	042 = *	062 = <b>AUS</b>
003 = <b>C</b>	023 = <b>W</b>	043 = <b>=</b>	063 = <b>AUF</b>
004 = <b>D</b>	024 = <b>X</b>	044 = #	064 = <b>AB</b>
005 = <b>E</b>	025 = <b>Y</b>	045 = ↔	065 = <b>ON</b>
006 = <b>F</b>	026 = <b>Z</b>	046 = \$	066 = <b>OFF</b>
007 = <b>G</b>	027 = <b>0</b>	047 = →	067 = <b>UP</b>
008 = <b>H</b>	028 = <b>1</b>	048 = ←	068 = <b>DOWN</b>
009 = <b>I</b>	029 = <b>2</b>	049 = ↓	069 = <b>HIGH</b>
010 = <b>J</b>	030 = <b>3</b>	050 = ↑	070 = <b>LOW</b>
011 = <b>K</b>	031 = <b>4</b>	051 = %	071 = <b>ON/OFF</b>
012 = <b>L</b>	032 = <b>5</b>	052 = √	072 = <b>START</b>
013 = <b>M</b>	033 = <b>6</b>	053 = CTRL	073 = <b>RESET</b>
014 = <b>N</b>	034 = <b>7</b>	054 = <b>RETURN</b>	074 = (1)
015 = <b>O</b>	035 = <b>8</b>	055 = <b>SHIFT</b>	075 =☆
016 = <b>P</b>	036 = <b>9</b>	056 = <b>LOCK</b>	076 =△
017 = <b>Q</b>	037 =+	057 = <b>STOP</b>	077 =
018 = <b>R</b>	038 =-	058 = <b>ENTER</b>	
019 = <b>S</b>	039 =.	059 = <b>BACK</b>	
020 = <b>T</b>	040 = x	060 = <b>LINE</b>	
Please note that the font size d	epends on the number of charact	ers	
	-		

# All Variants

Diameter	Switching Current	Switching Voltage	Illumination, LED	Housing Ma- terial	Torsion Protection Housing/Actuator	Config. Code	Order Number
[mm]	[A]	[VAC/ VDC]					
22	0.1	30 VDC	non-illuminated	Stainless Steel	no / yes	MSM 22 CS Pcs	1241.7031.1110000
22	5/3	125/250 VAC	non-illuminated	Stainless Steel	no / yes	MSM 22 CS Pcs	1241.7031.1120000
22	10	250 VAC	non-illuminated	Stainless Steel	no / yes	MSM 22 CS Pcs	1241.7031.1130000
22	5/3	125/250 VAC	non-illuminated	Stainless Steel	yes / yes	MSM 22 CS LE	1241.7032.1120000
22	0.1	30 VDC	Backlighted, red, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL red	1241.8484
22	0.1	30 VDC	Backlighted, green, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL green	1241.8485
22	0.1	30 VDC	Backlighted, blue, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL blue	1241.8487
22	0.1	30 VDC	Backlighted, white, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL white	1241.8488
22	10	250 VAC	Backlighted, red, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL red	1241.8520
22	10	250 VAC	Backlighted, green, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL green	1241.8521
22	10	250 VAC	Backlighted, blue, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL blue	1241.8523
22	10	250 VAC	Backlighted, white, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL white	1241.8524
22	0.1	30 VDC	Backlighted, RGB, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL RGB	3-102-774
22	5/3	125/250 VAC	Backlighted, RGB, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL RGB	3-102-775

Diameter	Switching Current	Switching Voltage	Illumination, LED	Housing Ma- terial	Torsion Protection Housing/Actuator	Config. Code	Order Number
[mm]	[A]	[VAC/ VDC]		torial .	Troubling/Totaldor		
22	10	250 VAC	Backlighted, RGB, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL RGB	3-102-776
22	5/3	125/250 VAC	Backlighted, blue, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL blue	3-120-106
22	5/3	125/250 VAC	Backlighted, white, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL white	3-120-107
22	5/3	125/250 VAC	Backlighted, red, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL red	3-120-119
22	5/3	125/250 VAC	Backlighted, green, 24 VDC	Stainless Steel	yes / yes	MSM 22 CS BL green	3-120-124

Legend:

MSMCS = Ceramic Surface

ST = Standard: not lettered

LE = Lettering: lettered

Al = BL = Full Surface Backlighting: Lettering possible (see Lettering, last 3 digits)

IP65 degree of protection front side contact areadegree of protection rear side contact area IP40 or IP67 optional -> see Technical Data Micro Switch

Customer-specific versions available on request.

Special materials for use in salt and chlorinated environment on request.

The MOQ for standard laser lettering on standard variants is a packing unit.

The nut with gasket and micro switch are enclosed in the box.

Most Popular.

Availability for all products can be searched real-time: https://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 O-ring in a bag (enclosed in the box)

### **Accessories**

#### Description



MSM Cover Protection cover for MSM 19 and MSM 22



Power Supply Power Supply IP42 for LED- and Illumination applications indoor 90~264 VAC => 24 VDC 0.34 A 8 W