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 19

Alternative: Other diameter

Alternative: switch with ring illumination: MSM 16; MSM 19; MSM

22; MSM 30

Alternative: Standard version MSM CS 22

Weblinks

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

Too	hnical	Doto
iec	HIHCAI	Data

ieciilicai 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	, IP40
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 m Ω
	> 100 MΩ
Insulation Resistance	
Insulation Resistance Duration of Bounce	< 5 ms
Duration of Bounce	< 5 ms Rating 10 A / 250 VAC (Protection Class
Duration of Bounce Micro Switch for Electrical I	
Duration of Bounce	
Duration of Bounce Micro Switch for Electrical I IP40) Contact Material	Rating 10 A / 250 VAC (Protection Class
Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage	Rating 10 A / 250 VAC (Protection Class Ag
Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current	Ag max. 250 VAC (Protection Class
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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. 4.5 Nm
Mounting screw torque Stain- less Steel Nut	max. 12 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	
Housings	Stainless Steel
Actuator	Ceramic (Zirconium Dioxide)
Seal Ring	NBR70
Switcher Collet	PA

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 Type:

Approval Logo	Certification Body	Description
VDE		Low Voltage Directive 2014/35/EU Low Voltage Directive 2014/35/EU
VDE		VDE / ENEC Certificate Number (0mron): 40008425, 129246, 125256
(I)	UL	UL / CSA File Number (Omron): E41515
VDE		VDE / ENEC Certificate Number (Marquardt): 097550
(I)	UL	UL / CSA File Number (Marquardt): E41791
KEMA	KEMA	KEMA / ENEC File Number (Cherry): 2089323.01
(I)	UL	UL / CSA File Number (Cherry): E23301

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	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

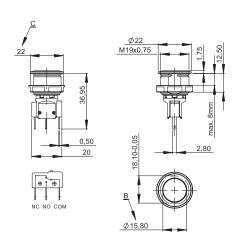
Compliances

The product complies with following Guide Lines

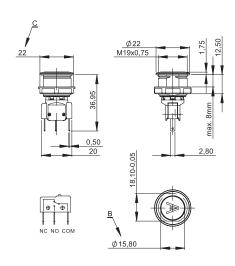
Identification	Details	Initiator	Description
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into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

Dimension [mm]

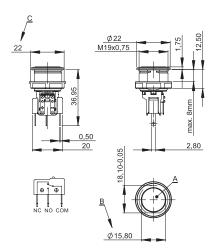
MSM 19 CS ST



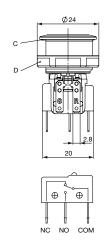
MSM 19 CS LE

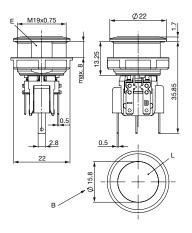


MSM 19 CS BL Single color



MSM 19 CS AI RGB





Legend

B = Actuating Area
C = Sealing

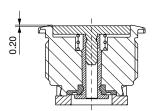
D = Nut

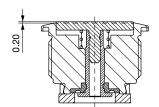
E = Anti-rotation protection

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 19 CS ST

MSM 19 CS LE / MSM 19 CS BL

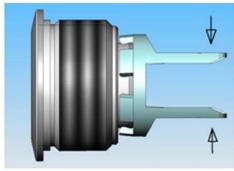




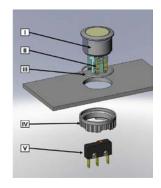
Drilling diagram

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:

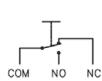
- 1.) Place the gasket accurately on the actuator housing. Then mount the actuator housing assembly into the panel.
- 2.) Tighten the screw nut according to the torque instructions.
- 3.) Clasp the module switching contact into the micro switch holder of the actuator housing.

Installation information:

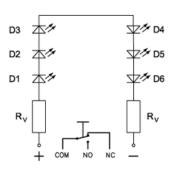
- 1.) The power supply and the configuration of the flat pin terminals have to be installed correctly for the illumination and micro switch function.
- Insulate the terminals as required. Fully insulated plug-in sleeves are recommended.
 Installation instructions according to VDE-standard DIN VDE 0100-100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

Diagrams

MSM CS ST / MSM CS LE

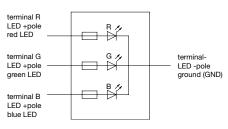


MSM CS BL Single color



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

Lettering

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

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 = (1)
015 = O	035 = 8	055 = SHIFT	075 =☆
016 = P	036 = 9	056 = LOCK	076 =△
017 = Q	037 =+	057 = STOP	077 =
018 = R	038 =-	058 = ENTER	
019 = S	039 =.	059 = BACK	
020 = T	040 = x	060 = LINE	

All Variants

Diameter	Switching Current	Switching Voltage	Illumination, LED	Housing Ma- terial	Torsion Protection Housing/Actuator	Config. Code	Order Number
[mm]	[A]	[VAC/ VDC]					
19	5/3	125/250 VAC	non-illuminated	Stainless Steel	no / yes	MSM 19 CS Pcs	1241.7021.1120000
19	6	250 VAC	non-illuminated	Stainless Steel	no / yes	MSM 19 CS Pcs	1241.7021.1180000
19	0.1	30 VDC	Backlighted, red, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL red	1241.8412
19	0.1	30 VDC	Backlighted, green, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL green	1241.8413
19	0.1	30 VDC	Backlighted, blue, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL blue	1241.8415
19	0.1	30 VDC	Backlighted, white, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL white	1241.8416
19	10	250 VAC	Backlighted, red, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL red	1241.8448
19	10	250 VAC	Backlighted, green, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL green	1241.8449
19	10	250 VAC	Backlighted, blue, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL blue	1241.8451
19	10	250 VAC	Backlighted, white, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL white	1241.8452

Diameter	Switching Current	Switching Voltage	Illumination, LED	Housing Ma- terial	Torsion Protection Housing/Actuator	Config. Code	Order Number
[mm]	[A]	[VAC/ VDC]					
19	0.1	30 VDC	Backlighted, RGB, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL RGB	3-102-788
19	5/3	125/250 VAC	Backlighted, RGB, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL RGB	3-102-789
19	10	250 VAC	Backlighted, RGB, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL RGB	3-102-790
19	5/3	125/250 VAC	Backlighted, green, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL green	3-120-088
19	5/3	125/250 VAC	Backlighted, blue, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL blue	3-120-089
19	5/3	125/250 VAC	Backlighted, red, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL red	3-120-103
19	6	250 VAC	Backlighted, red, 24 VDC	Stainless Steel	yes / yes	MSM 19 CS BL red	3-120-115

Legend:

Type:

MSMCS = Ceramic Surface

ST = Standard: not lettered

LE = Lettering: lettered

 $\mathsf{AI} = \mathsf{BL} = \mathsf{Full} \; \mathsf{Surface} \; \mathsf{Backlighting:} \; \mathsf{Lettering} \; \mathsf{possible} \; (\mathsf{see} \; \mathsf{Lettering}, \; \mathsf{last} \; 3 \; \mathsf{digits})$

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



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

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