### Metal Switch Medium Stroke, Switching Voltage up to 250 VAC



Single-color

RGB



non-illuminated

# See below:

#### Description

- Momentary action switch available in version: Standard (ST), with Let-
- tering (LE), with Point Illumination (PI) and with Ring Illumination (RI)
- Single color or RGB illumination
- Choice from 7 colors for RGB variants
- Assembly method: clip micro-switch 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 RGB illumination

## **Approvals and Compliances**

#### Characteristics

- Housing and actuator material: high-quality stainless steel
- 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
- IP-Protection: IP67 from front side to contact area, Micro-Switch is available in versions IP40 or IP67
- For use in harsh environments (see technical data)

#### References

Alternative: Push button with impulse function: MSM DP 19 Alternative: switch with latching function: MSM LA CS 19 Alternative: switch with backlighted illumination: MSM CS 19 Alternative: Other diameter MSM 16; MSM 22; MSM 24; MSM 30 Alternative: Push button without stroke: CPS; TTS Alternative: switch with ring illumination: MSM DP 19; MSM LA 19 Alternative: Pushbutton without lighting: MSM DP 19; MSM LA 19; PSE IV 19; PSE NO 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  |
|---|--|
| Number of Poles   | SPDT   |
| Supply Voltage  | 24 VDC Ring Illumination, Point Illumi<br>nation without series resistor, LED op   |
|   | rating data are listed in separate table   |
|   | 5 VDC and 12 VDC RI variants (exception of the second seco |
| Impulse Withstand Voltage   | for RGB) on request (MOQ 500 piece<br>2 kV with Ring Illumination  |
| (ESD)   |  |
| ()  | 4 kV without Illumination  |
| Micro Switch 5 A / 125 VAC  | or 3 A / 250 VAC, IP40   |
| Contact Material  | Ag   |
| Switching Voltage   | max. 125/250VAC  |
| Switching Current   | max. 5 / 3 A   |
| Rated Switching Capacity  | 750 W  |
| Lifetime  | 0.2 million actuations at Rated Swit-<br>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   |
|   |  |
|   | < 50 mΩ  |
| Insulation Resistance<br>Duration of Bounce<br><b>Micro Switch for Electrical I</b>   | < 50 mΩ<br>> 100 MΩ<br>< 5 ms<br>Rating 10 A / 250 VAC (Protection Class   |
| Insulation Resistance<br>Duration of Bounce<br><b>Micro Switch for Electrical I</b><br>IP40)<br>Contact Material  | > 100 MΩ<br>< 5 ms<br>Rating 10 A / 250 VAC (Protection Class  |
| IP40)<br>Contact Material<br>Switching Voltage  | > 100 MΩ<br>< 5 ms<br>Rating 10 A / 250 VAC (Protection Class<br>Ag<br>max. 250 VAC  |
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| Insulation Resistance<br>Duration of Bounce<br>Micro Switch for Electrical I<br>IP40)<br>Contact Material<br>Switching Voltage<br>Switching Current<br>Rated Switching Capacity   | > 100 MΩ<br>< 5 ms<br>Rating 10 A / 250 VAC (Protection Class<br>Ag<br>max. 250 VAC<br>max. 10 A<br>2500 W   |
| Insulation Resistance<br>Duration of Bounce<br>Micro Switch for Electrical I<br>IP40)<br>Contact Material<br>Switching Voltage  | > 100 MΩ<br>< 5 ms<br>Rating 10 A / 250 VAC (Protection Class<br>Ag<br>max. 250 VAC<br>max. 10 A<br>2500 W   |
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#### Mechanical Data 4.5 N Actuating Force Actuating Travel 1.0 mm 1.5 million actuations Lifetime Shock Protection IK07 Mounting screw torque Plastic max. 4.5 Nm Nut Mounting screw torque Stainmax. 12 Nm less Steel Nut **Climatical Data** Operating Temperature -25 to 85 °C Storage Temperature -25 to 85 °C **Protection Class** IP67 Switching Unit IP40 IP67 optional Salt Spray Test (acc. to DIN 24 h / 48 h / 96 h Residence Time 50021-SS Material Housing Stainless Steel Actuator Stainless Steel Light Conductor (Point Illumi-PC nation) Illuminated Ring (Ring Illumi-PA for dotted single color variants nation) PMMA for RGB and homogeneous single color variants Seal Ring NBR70 Switcher Collet PA

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

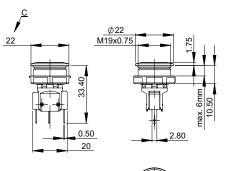
Plastic Nut

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        | s that are referenced                  |                          |   |
|--------------------------|--|--------------------------|---|
| Organization Design      |  | Standard                 | Description   |
| DIN                      | Designed according to                  | DIN EN 61058-1           | Switches for appliances. Part 1. General requirements   |
| (h)                      | Designed according to                  | UL 1054                  | UL standard for safety special-use switches   |
| Application sta          |  |                          |   |
|                          | ards where the product can be used     |                          |   |
| Organization             | ganization Design Standard Description |                          | Description   |
| IEC                      | Designed for applications acc.         | IEC/UL 62368-1           | Audio/video, information and communication technology equipment - Par<br>1: Safety requirements |
| Compliances              |  |                          |   |
| The survey of the survey | plies with following Guide Lines       |                          |   |
| The product comp         |  |                          | Description   |
| Identification           | Details                                | Initiator                | Description   |
|                          | Details<br>RoHS                        | Initiator<br>SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863  |

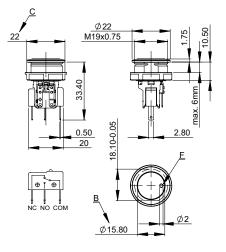
## Dimension [mm]

MSM 19 ST

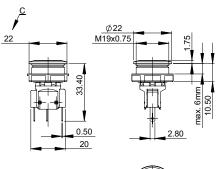




MSM 19 PI

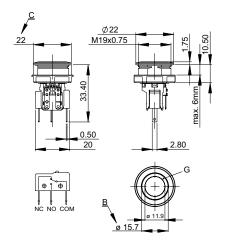


MSM 19 LE

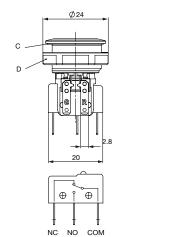


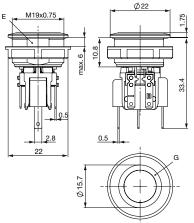


### MSM 19 RI Single color



### MSM 19 RI RGB





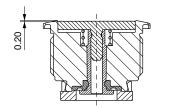
#### Legend

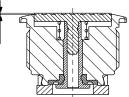
B = Actuating Area C = Sealing D = Nut

- E = Anti-rotation protection
- F = Point illumination

 $G = III umination \ ring$ 

### **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.

0.20

### Dimension

MSM 19 ST / MSM 19 RI

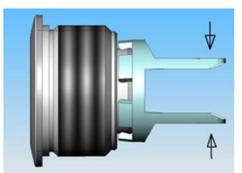
MSM 19 LE / MSM 19 PI / MSM 19 RI optional



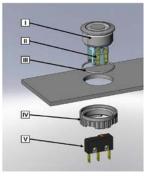
Drilling diagram

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:

Place the gasket accurately on the actuator housing. Then mount the actuator housing assembly into the panel.
 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:

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 ST / MSM LE MSM PI /4 |4 q NO NC COM q NO COM NC MSM RI / 24 V Single color MSM RI / 5 VDC D3 🗚 D 5 D4 女⁄⁄ D 4 D5 D2 本外 $\nabla A$ D 3 D1 本 $\forall A$ D6 Rv Rv D 1 Q 9 Rv R۱ ç Ď NO NC COM 6 φ MSM RI / 24 V RGB Resulting Active Lighting type Active Active terminal terminal terminal Color R) 🔴 G) 🔴 B) 🔵 terminal assignment with resistors for 24 VDC Singlecolor Red х terminal R LED +pole Singlecolor Green х ÷۲ Singlecolor Blue red LED х RGB Additive 2 х х Yellow G // terminal G terminal-RGB Additive 2 х х Magenta 🔴 LED +pole green LED LED -pole ground (GND) q RGB Additive 2 х х Cyan COM NO NC 1 RGB Additive 3 х х х White 0 terminal B LED +pole blue LED Illumination options for RGB **Point Illumination Operating Data** Forward Current max. Forward Voltage at 10 mA Forward Voltage max. LED red 1.9 VDC 3.0 VDC 30 mA 2.4 VDC 3.0 VDC LED green 30 mA LED yellow 30 mA 2.4 VDC 3.0 VDC

3.8 VDC

2.0 VDC

4.5 VDC

2.5 VDC

Attention: Switches are delivered without series resistor.

### Marking

LED blue LED red/green

| The last three | digits in the | order numbe | er define the | lettering: |
|----------------|---------------|-------------|---------------|------------|
|                |               |             |               |            |

| 000     | No Lettering         |
|---------|----------------------|
| 001-074 | Standard Lettering   |
| 101-    | Customized Lettering |

20 mA

25 mA

### Metal Line Switches https://www.schurter.com /PG70

# MSM 19

### Lettering Colour of Laser Lettering

| Material        | Lettering Colour |                |
|-----------------|------------------|----------------|
| Stainless Steel | black            | Filled letters |

| Order Index Lettering            |  |                     |                     |  |  |  |  |  |
|----------------------------------|--|---------------------|---------------------|--|--|--|--|--|
| 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 = <b>CTRL</b>   | 073 = <b>RESET</b>  |  |  |  |  |  |
| 014 = <b>N</b>                   | 034 = <b>7</b>   | 054 = <b>RETURN</b> | 074 =               |  |  |  |  |  |
| 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 | Please note that the font size depends on the number of characters |                     |                     |  |  |  |  |  |

### **All Variants**

| IP Switching<br>Unit | Switching<br>Current | Switching Voltage | Illumination, LED         | Housing Material,<br>Torsion Protection | Actuator Material, Tor-<br>sion Protection | Config. Code    | Order Number       |
|----------------------|----------------------|-------------------|---------------------------|---|--|-----------------|--------------------|
|                      | [A]                  | [VAC/ VDC]        |                           |   |  |                 |                    |
| IP40                 | 100 mA               | 30 VDC            | non-illuminated           | Stainless Steel ,no                     | Stainless Steel ,no                        | MSM 19 Pcs      | 1241.6621.1110000  |
| IP40                 | 5/3A                 | 125/250 VAC       | non-illuminated           | Stainless Steel ,no                     | Stainless Steel ,no                        | MSM 19 Pcs      | 1241.6621.1120000  |
| IP40                 | 10 A                 | 250 VAC           | non-illuminated           | Stainless Steel ,no                     | Stainless Steel ,no                        | MSM 19 Pcs      | 1241.6621.1130000  |
| IP67                 | 6 A                  | 250 VAC           | non-illuminated           | Stainless Steel ,no                     | Stainless Steel ,no                        | MSM 19 Pcs      | 1241.6621.1180000  |
| IP40                 | 5/3A                 | 125/250 VAC       | non-illuminated           | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 LE       | 1241.6622.1120000  |
| IP40                 | 5/3A                 | 125/250 VAC       | non-illuminated           | Alu red ,yes                            | Stainless Steel ,yes                       | MSM 19 LE       | 1241.6622.3120000  |
| IP40                 | 5/3A                 | 125/250 VAC       | non-illuminated           | Alu red ,yes                            | Stainless Steel ,yes                       | MSM 19 LE       | 1241.6622.3120066  |
| IP40                 | 5/3A                 | 125/250 VAC       | non-illuminated           | Alu green ,yes                          | Stainless Steel ,yes                       | MSM 19 LE       | 1241.6622.5120000  |
| IP40                 | 5/3A                 | 125/250 VAC       | non-illuminated           | Alu green ,yes                          | Stainless Steel ,yes                       | MSM 19 LE       | 1241.6622.5120065  |
| IP40                 | 100 mA               | 30 VDC            | Point Illumination, red   | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 PI red   | 1241.6623.1111000  |
| IP40                 | 100 mA               | 30 VDC            | Point Illumination, green | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 PI green | 1241.6623.1112000  |
| IP40                 | 5/3A                 | 125/250 VAC       | Point Illumination, red   | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 PI red   | 1241.6623.1121000  |
| IP40                 | 5/3A                 | 125/250 VAC       | Point Illumination, green | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 PI green | 1241.6623.1122000  |
| IP40                 | 5/3A                 | 125/250 VAC       | Point Illumination, blue  | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 PI blue  | 1241.6623.1124000  |
| IP40                 | 10 A                 | 250 VAC           | Point Illumination, red   | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 PI red   | 1241.6623.1131000  |
| IP40                 | 10 A                 | 250 VAC           | Point Illumination, green | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 PI green | 1241.6623.1132000  |
| IP40                 | 100 mA               | 30 VDC            | RI dotted, red, 24 VDC    | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI red   | 1241.6624.1111000  |
| IP40                 | 100 mA               | 30 VDC            | RI dotted, red, 5 VDC     | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI red   | 1241.6624.1111000B |
| IP40                 | 100 mA               | 30 VDC            | RI dotted, green, 24 VDC  | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI green | 1241.6624.1112000  |
|                      |                      |                   |                           |   |  |                 |                    |

| IP Switching<br>Unit | Switching<br>Current | Switching Voltage | Illumination, LED                  | Housing Material,<br>Torsion Protection | Actuator Material, Tor-<br>sion Protection | Config. Code                | Order Number      |
|----------------------|----------------------|-------------------|------------------------------------|---|--|-----------------------------|-------------------|
|                      | [A]                  | [VAC/ VDC]        |                                    |   |  |                             |                   |
| IP40                 | 100 mA               | 30 VDC            | RI dotted, yellow, 24 VDC          | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI yellow            | 1241.6624.1113000 |
| IP40                 | 100 mA               | 30 VDC            | RI dotted, blue, 24 VDC            | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI blue              | 1241.6624.1114000 |
| IP40                 | 100 mA               | 30 VDC            | RI dotted, blue, 24 VDC            | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI blue              | 1241.6624.1114074 |
| IP40                 | 5/3A                 | 125/250 VAC       | RI dotted, red, 24 VDC             | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI red               | 1241.6624.1121000 |
| IP40                 | 5/3A                 | 125/250 VAC       | RI dotted, green, 24 VDC           | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI green             | 1241.6624.1122000 |
| IP40                 | 5/3A                 | 125/250 VAC       | RI dotted, blue, 24 VDC            | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI blue              | 1241.6624.1124000 |
| IP40                 | 5/3A                 | 125/250 VAC       | RI dotted, white, 24 VDC           | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI white             | 1241.6624.1125000 |
| IP40                 | 10 A                 | 250 VAC           | RI dotted, red, 24 VDC             | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI red               | 1241.6624.1131000 |
| IP40                 | 10 A                 | 250 VAC           | RI dotted, green, 24 VDC           | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI green             | 1241.6624.1132000 |
| IP40                 | 10 A                 | 250 VAC           | RI dotted, blue, 24 VDC            | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI blue              | 1241.6624.1134000 |
| IP67                 | 6 A                  | 250 VAC           | RI dotted, red, 24 VDC             | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI red               | 1241.6624.1181000 |
| IP67                 | 6 A                  | 250 VAC           | RI dotted, green, 24 VDC           | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI green             | 1241.6624.1182000 |
| IP40                 | 5 A                  | 250 VAC           | Point Illumination, green / yellow | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 PI green /<br>yellow | 3-101-515         |
| IP40                 | 100 mA               | 30 VDC            | RI homogeneous, RGB, 24 VDC        | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI RGB               | 3-102-708         |
| IP40                 | 10 A                 | 250 VAC           | RI homogeneous, RGB, 24 VDC        | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI RGB               | 3-102-772         |
| IP40                 | 100 mA               | 30 VDC            | RI homogeneous, green, 24 VDC      | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI green             | 3-108-945         |
| IP40                 | 5/3A                 | 125/250 VAC       | RI homogeneous, green, 24 VDC      | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI green             | 3-108-946         |
| IP40                 | 10 A                 | 250 VAC           | RI homogeneous, green, 24 VDC      | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI green             | 3-108-947         |
| IP40                 | 100 mA               | 30 VDC            | RI homogeneous, blue, 24 VDC       | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI blue              | 3-108-948         |
| IP40                 | 5/3A                 | 125/250 VAC       | RI homogeneous, blue, 24 VDC       | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI blue              | 3-108-949         |
| IP40                 | 10 A                 | 250 VAC           | RI homogeneous, blue, 24 VDC       | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI blue              | 3-108-950         |
| IP40                 | 100 mA               | 30 VDC            | RI homogeneous, red, 24 VDC        | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI red               | 3-108-952         |
| IP40                 | 5/3A                 | 125/250 VAC       | RI homogeneous, red, 24 VDC        | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI red               | 3-108-953         |
| IP40                 | 10 A                 | 250 VAC           | RI homogeneous, red, 24 VDC        | Stainless Steel ,yes                    | Stainless Steel ,yes                       | MSM 19 RI red               | 3-108-954         |

IP-Protection: IP67 from front side to contact area, Micro-Switch is available in versions IP40 or IP67, see Technical Data Micro-Switch

Variants with 6 A micro switch have IP67

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

5 VDC and 12 VDC RI variants (except for RGB) on request (MOQ 500 pieces)

Customer-specific versions available on request. Special materials for use in salt and chlorinated environment on request. 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

5 VDC and 12 VDC RI variants (except for RGB) on request (MOQ 500 pieces)

### 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)
- Micro switches 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

08.07.2021