

Metal Switch Medium Stroke, Switching Voltage up to 250 VAC



Single-color



RGB



RGB

See below:

**Approvals and Compliances**

#### Description

- Momentary action switch available in version: Standard (ST), with Lettering (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

#### 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: IP 67 from front side to contact area, Micro-Switch is available in versions IP 40 or IP 67
- for use in harsh environments (see technical data)

#### References

Alternative: double-pole switch: [MSM DP 19](#); [MSM DP 22](#); [MSM DP 30](#)

Alternative: Other diameter [MSM DP 19](#); [MSM DP 22](#); [MSM DP 30](#); [MSM 16](#)

#### Weblinks

[html-datasheet](#), [General Product Information](#), [CAD-Drawings](#), [Product News](#), [Detailed request for product](#)

**Technical Data****Electrical Data**

|                                 |                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Switching Function              | N.O., N.C., N.O./N.C.                                                                                                     |
| Number of Poles                 | 1-pole                                                                                                                    |
| Supply Voltage                  | 24 VDC * Ring Illumination , Point Illumination without series resistor , LED operating data are listed in separate table |
| Impulse Withstand Voltage (ESD) | 4 kV MSM ST / MSM LE                                                                                                      |

**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 Switching 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 Switching Capacity |
| Contact Resistance       | < 50 mΩ                                            |
| Insulation Resistance    | > 100 MΩ                                           |
| Duration of Bounce       | < 5 ms                                             |

**Micro Switch for Electrical Rating 10 A / 250 VAC (Protection Class IP40)**

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| Contact Material         | Ag                                                  |
| Switching Voltage        | max. 250 VAC                                        |
| Switching Current        | max. 10 A                                           |
| Rated Switching Capacity | 2500 W                                              |
| Lifetime                 | 0.05 million actuations at Rated Switching Capacity |
| Contact Resistance       | < 30 mΩ                                             |
| Insulation Resistance    | > 100 MΩ                                            |
| Duration of Bounce       | < 5 ms                                              |

**Micro Switch 6 A / 250 VAC, IP67**

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| Switching Voltage        | max. 250 VAC                                        |
| Switching Current        | max. 5                                              |
| Rated Switching Capacity | 1250 W                                              |
| Lifetime                 | 0.05 million actuations at Rated Switching Capacity |

**Micro Switch 0,1 A / 250 VAC, IP67 - on request**

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| Switching Voltage        | max. 250 VAC                                        |
| Switching Current        | max. 0.1                                            |
| Rated Switching Capacity | 25 W                                                |
| Lifetime                 | 0.05 million actuations at Rated Switching Capacity |

**Micro Switch 10 A / 250 VAC, IP67 - on request**

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| Switching Voltage        | max. 250 VAC                                        |
| Switching Current        | max. 10 A                                           |
| Rated Switching Capacity | 2500 W                                              |
| Lifetime                 | 0.01 million actuations at Rated Switching Capacity |

**Mechanical Data**

|                                       |                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------|
| Actuating Force                       | 4.5 N                                                                         |
| Actuating Travel                      | 1.2 mm                                                                        |
| Lifetime                              | 1.5 million actuations                                                        |
| Shock Protection                      | IK 07 for mounting diameter 19, 22, 30 mm., IK 06 for mounting diameter 16 mm |
| Tightening Torque Plastic Nut         | max. 8 Nm                                                                     |
| Tightening Torque Stainless Steel Nut | max. 50 Nm                                                                    |

**Climatical Data**

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| Operating Temperature                  | -25 to +85 °C                     |
| Storage Temperature                    | -25 to +85 °C                     |
| Protection Class                       | IP 67                             |
| Switching Unit                         | IP 40                             |
|                                        | IP 67 optional                    |
| Salt Spray Test (acc. to DIN 50021-SS) | 24 h / 48 h / 96 h Residence Time |

**Material**

|                                      |                                                                                           |
|--------------------------------------|-------------------------------------------------------------------------------------------|
| Housings                             | Stainless Steel                                                                           |
| Actuator                             | Stainless Steel                                                                           |
| Light Conductor (Point Illumination) | PC                                                                                        |
| Illuminated Ring (Ring Illumination) | PA for dotted single color variants<br>PMMA for RGB and homogeneous single color variants |
| Seal Ring                            | NBR70                                                                                     |
| Switcher Collet                      | PA                                                                                        |

\* 5 V or 12 V variants (except for multicolor) on request

**Approvals and Compliances**Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)**Approvals**

Approval Reference Type: MSM 30

| Approval Logo                                                                     | Certification Body | Description                                                                                    |
|-----------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------|
| <b>VDE</b>                                                                        |                    | Low Voltage Directive 2014/35/EU compliant following certificate numbers apply to micro switch |
| <b>VDE</b>                                                                        |                    | VDE / ENEC Certificate Number (Omron): 40008425, 129246, 125256                                |
|  | UL                 | UL / CSA File Number (Omron): E41515                                                           |
| <b>VDE</b>                                                                        |                    | VDE / ENEC Certificate Number (Marquardt): 097550                                              |
|  | UL                 | UL / CSA File Number (Marquardt): E41791                                                       |
|  | KEMA               | KEMA / ENEC File Number (Cherry): 2089323.01                                                   |
|  | UL                 | UL / CSA File Number (Cherry): E23301                                                          |
|  | CQC                | CQC File Number (Marquardt): CQC13005090991                                                    |

## Product standards

Product standards that are referenced

| Organization                                                                      | Design                | Standard       | Description                                           |
|-----------------------------------------------------------------------------------|-----------------------|----------------|-------------------------------------------------------|
|  | Designed according to | DIN EN 61058-1 | Switches for appliances. Part 1. General requirements |
|  | 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                                                                                     |
|-------------------------------------------------------------------------------------|--------------------------------|--------------|-------------------------------------------------------------------------------------------------|
|  | Designed for applications acc. | IEC/UL 60950 | IEC 60950-1 includes the basic requirements for the safety of information technology equipment. |

## Compliances

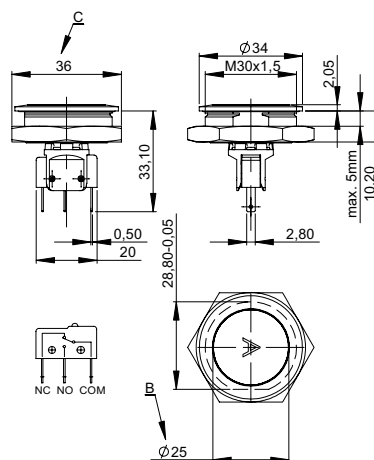
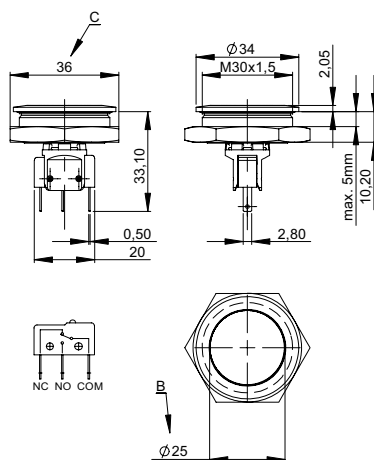
The product complies with following Guide Lines

| Identification                                                                      | Details | Initiator   | Description                                                                                                                                                             |
|-------------------------------------------------------------------------------------|---------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | RoHS    | SCHURTER AG | EU Directive RoHS 2011/65/EU                                                                                                                                            |
|  | 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. |

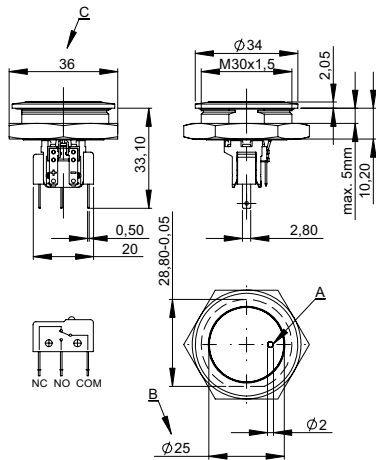
## Dimension [mm]

MSM 30 ST

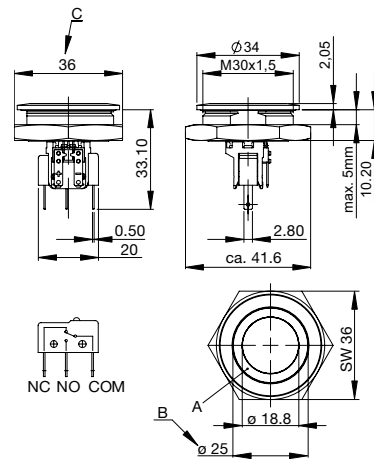
MSM 30 LE



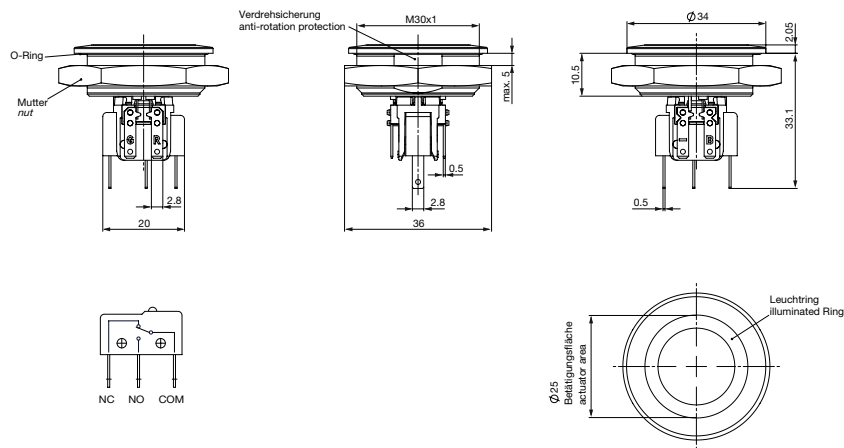
## MSM 30 PI



## MSM 30 RI Single color



## MSM 30 RI RGB

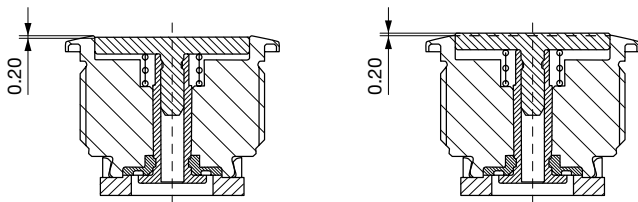


### Legend

A = Illumination Area  
B = Actuating Area  
C = Width Across Flats  
D = Nut

### Tolerance Range

#### Actuator Tolerance Range

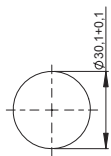


The mounting tolerance range of the actuator varies from 0.2 mm projection length and 0.2 mm short length to the housing edge. The slanting position of the actuator can range within this tolerance.

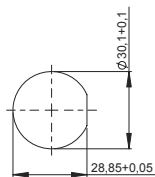
## Dimension

MSM 30 ST / MSM 30 RI

MSM 30 LE / MSM 30 PI / MSM 30  
 RI optional

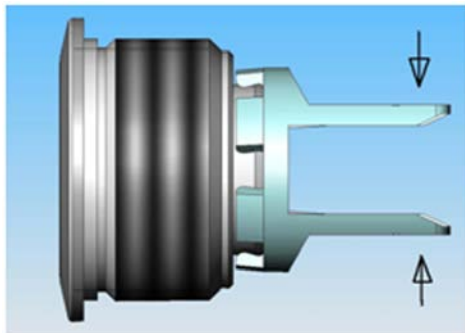


Drilling diagram

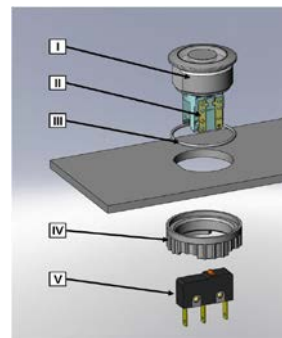


Drilling diagram

## 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:

- 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:

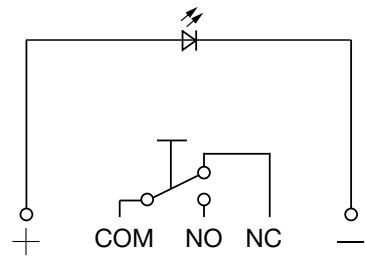
- 1.) The power supply and the configuration of the flat pin terminals have to be installed correctly for the illumination and micro switch function.
- 2.) Insulate the terminals as required. Fully insulated plug-in sleeves are recommended.
- 3.) Installation instructions according to VDE-standard DIN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

Diagrams

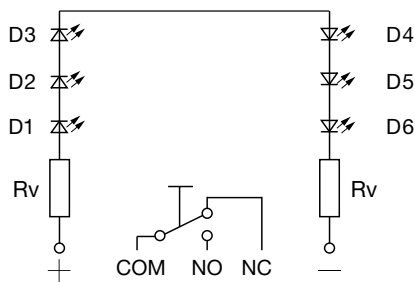
MSM ST / MSM LE



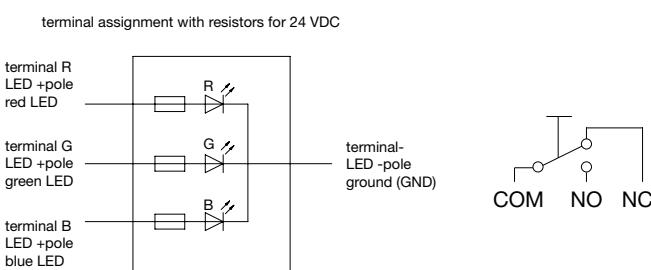
MSM PI



MSM RI / 24 V Single color



MSM RI / 24 V RGB



| Lighting type  | Active terminal R) | Active terminal G) | Active terminal B) | Resulting Color |
|----------------|--------------------|--------------------|--------------------|-----------------|
| Singlecolor    | x                  |                    |                    | Red             |
| Singlecolor    |                    | x                  |                    | Green           |
| Singlecolor    |                    |                    | x                  | Blue            |
| RGB Additive 2 | x                  | x                  |                    | Yellow          |
| RGB Additive 2 | x                  |                    | x                  | Magenta         |
| RGB Additive 2 |                    | x                  | x                  | Cyan            |
| RGB Additive 3 | x                  | x                  | x                  | White           |

Illumination options for RGB

Point Illumination

| Operating Data  | Forward Current max. | Forward Voltage at 10 mA | Forward Voltage at 8 mA | Forward Voltage at 20 mA | Forward Voltage max. |
|-----------------|----------------------|--------------------------|-------------------------|--------------------------|----------------------|
| LED red         | 30 mA                | 1.9 VDC                  |                         |                          | 3.0 VDC              |
| LED green       | 30 mA                | 2.1 VDC                  |                         |                          | 3.0 VDC              |
| LED yellow      | 30 mA                | 2.1 VDC                  |                         |                          | 3.0 VDC              |
| LED blue        | 20 mA                |                          | 3.7 VDC                 |                          | 4.5 VDC              |
| LED white       | 30 mA                |                          |                         | 3.6 VDC                  | 4.0 VDC              |
| LED red / green | 25 mA                |                          |                         | 2.0 VDC / 2.2 VDC        |                      |

Attention: Switches are delivered without series resistor.

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 |                |
|-----------------|------------------|----------------|
| 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 = =             | 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 = <b>+</b> | 057 = <b>STOP</b>   | 077 =  |
| 018 = <b>R</b> | 038 = <b>-</b> | 058 = <b>ENTER</b>  |                                                                                           |
| 019 = <b>S</b> | 039 = <b>.</b> | 059 = <b>BACK</b>   |                                                                                           |
| 020 = <b>T</b> | 040 = <b>x</b> | 060 = <b>LINE</b>   |                                                                                           |

## All Variants

| IP Switching Unit | Switching Current<br>[A] | Switching Voltage<br>[VAC/ VDC] | Illumination, LED           | Housing Material, Torsion Protection | Actuator Material, Tor-sion Protection | Config. Code     | Order Number      |                                                                                       |
|-------------------|--------------------------|---------------------------------|-----------------------------|--------------------------------------|----------------------------------------|------------------|-------------------|---------------------------------------------------------------------------------------|
| IP 40             | 100 mA                   | 30 VDC                          | non-illuminated             | Stainless Steel ,no                  | Stainless Steel ,no                    | MSM 30 ST        | 1241.6661.1110000 |  |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | non-illuminated             | Stainless Steel ,no                  | Stainless Steel ,no                    | MSM 30 ST        | 1241.6661.1120000 |  |
| IP 40             | 10 A                     | 250 VAC                         | non-illuminated             | Stainless Steel ,no                  | Stainless Steel ,no                    | MSM 30 ST        | 1241.6661.1130000 |                                                                                       |
| IP 67             | 6 A                      | 250 VAC                         | non-illuminated             | Stainless Steel ,no                  | Stainless Steel ,no                    | MSM 30 ST        | 1241.6661.1170000 |                                                                                       |
| IP 40             | 100 mA                   | 30 VDC                          | Point Illumination, red     | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 PI red    | 1241.6663.1111000 |                                                                                       |
| IP 40             | 100 mA                   | 30 VDC                          | Point Illumination, blue    | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 PI blue   | 1241.6663.1114000 |                                                                                       |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Point Illumination, red     | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 PI red    | 1241.6663.1121000 |  |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Point Illumination, green   | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 PI green  | 1241.6663.1122000 |  |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Point Illumination, blue    | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 PI blue   | 1241.6663.1124000 |                                                                                       |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Point Illumination, white   | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 PI white  | 1241.6663.1125000 |                                                                                       |
| IP 40             | 10 A                     | 250 VAC                         | Point Illumination, green   | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 PI green  | 1241.6663.1132000 |                                                                                       |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Point Illumination, red     | Alu red ,yes                         | Alu red ,yes                           | MSM 30 PI red    | 1241.6663.3121    |                                                                                       |
| IP 40             | 100 mA                   | 30 VDC                          | Ring dotted, red, 24 VDC    | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI red    | 1241.6664.1111000 |  |
| IP 40             | 100 mA                   | 30 VDC                          | Ring dotted, green, 24 VDC  | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI green  | 1241.6664.1112000 |  |
| IP 40             | 100 mA                   | 30 VDC                          | Ring dotted, yellow, 24 VDC | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI yellow | 1241.6664.1113000 |                                                                                       |
| IP 40             | 100 mA                   | 30 VDC                          | Ring dotted, blue, 24 VDC   | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI blue   | 1241.6664.1114000 |  |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Ring dotted, red, 24 VDC    | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI red    | 1241.6664.1121000 |  |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Ring dotted, green, 24 VDC  | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI green  | 1241.6664.1122000 |  |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Ring dotted, yellow, 24 VDC | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI yellow | 1241.6664.1123000 |                                                                                       |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Ring dotted, blue, 24 VDC   | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI blue   | 1241.6664.1124000 |  |

| IP Switching Unit | Switching Current<br>[A] | Switching Voltage<br>[VAC/ VDC] | Illumination, LED               | Housing Material, Torsion Protection | Actuator Material, Tor-sion Protection | Config. Code    | Order Number      |
|-------------------|--------------------------|---------------------------------|---------------------------------|--------------------------------------|----------------------------------------|-----------------|-------------------|
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Ring dotted, white, 24 VDC      | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI white | 1241.6664.1125000 |
| IP 40             | 10 A                     | 250 VAC                         | Ring dotted, green, 24 VDC      | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI green | 1241.6664.1132000 |
| IP 40             | 10 A                     | 250 VAC                         | Ring dotted, blue, 24 VDC       | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI blue  | 1241.6664.1134000 |
| IP 40             | 100 mA                   | 30 VDC                          | Ring homogeneous, RGB, 24 VDC   | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI RGB   | 3-102-785         |
| IP 40             | 10 A                     | 250 VAC                         | Ring homogeneous, RGB, 24 VDC   | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI RGB   | 3-102-787         |
| IP 40             | 100 mA                   | 30 VDC                          | Ring homogeneous, red, 24 VDC   | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI red   | 3-108-964         |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Ring homogeneous, red, 24 VDC   | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI red   | 3-108-965         |
| IP 40             | 10 A                     | 250 VAC                         | Ring homogeneous, red, 24 VDC   | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI red   | 3-108-966         |
| IP 40             | 100 mA                   | 30 VDC                          | Ring homogeneous, green, 24 VDC | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI green | 3-108-967         |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Ring homogeneous, green, 24 VDC | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI green | 3-108-968         |
| IP 40             | 10 A                     | 250 VAC                         | Ring homogeneous, green, 24 VDC | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI green | 3-108-969         |
| IP 40             | 100 mA                   | 30 VDC                          | Ring homogeneous, blue, 24 VDC  | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI blue  | 3-108-977         |
| IP 40             | 5 / 3 A                  | 125 / 250 VAC                   | Ring homogeneous, blue, 24 VDC  | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI blue  | 3-108-978         |
| IP 40             | 10 A                     | 250 VAC                         | Ring homogeneous, blue, 24 VDC  | Stainless Steel ,yes                 | Stainless Steel ,yes                   | MSM 30 RI blue  | 3-108-979         |

IP-Protection: IP 67 from front side to contact area, Micro-Switch is available in versions IP 40 or IP 67, see Technical Data Micro-Switch

Variants with 6 A micro switch have IP67

The MOQ for standard laser lettering on standard variants is 10 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>

**Packaging unit** 10 in box with insert or packed in air cushion bags



## Accessories

### Description



#### Power Supply

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