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



#### See below: **Approvals and Compliances**

#### 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

#### **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: PSE IV 30 Alternative: Other diameter MSM 16; MSM 19; MSM 22; MSM 24 Alternative: switch with ring illumination: PSE IV 30

# Weblinks

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

Technical Data Electrical Data

Switching Function	NOMENTARYSPDT
Number of Poles	
Supply Voltage	24 VDC Ring Illumination , Point Illum nation without series resistor , LED c
	rating data are listed in separate tabl
	5 VDC and 12 VDC RI variants (exce
	for RGB) on request (MOQ 500 piece
Impulse Withstand Voltage (ESD)	2 kV with Ring Illumination
(ESD)	4 kV without Illumination
Micro Switch 5 A / 125 VAC	
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
	<u>&gt; 100 MΩ</u> < 5 ms
Duration of Bounce	< 5 ms
Duration of Bounce Micro Switch for Electrical F	< 5 ms
Duration of Bounce Micro Switch for Electrical F IP40)	< 5 ms Rating 10 A / 250 VAC (Protection Clas
Duration of Bounce Micro Switch for Electrical F IP40) Contact Material	< 5 ms Rating 10 A / 250 VAC (Protection Clas
Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage	< 5 ms Rating 10 A / 250 VAC (Protection Clas
Duration of Bounce <b>Micro Switch for Electrical F</b> <b>IP40)</b> Contact Material Switching Voltage Switching Current	< 5 ms Rating 10 A / 250 VAC (Protection Clas Ag max. 250 VAC
Duration of Bounce <b>Micro Switch for Electrical F</b> <b>IP40)</b> Contact Material Switching Voltage Switching Current Rated Switching Capacity	< 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W
Duration of Bounce <b>Micro Switch for Electrical F</b> <b>IP40)</b> Contact Material Switching Voltage Switching Current Rated Switching Capacity	< 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W
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#### **Mechanical Data** 4.5 N Actuating Force Actuating Travel 1.2 mm 1.5 million actuations Lifetime Shock Protection IK07 Mounting screw torque Plastic max. 8 Nm Nut Mounting screw torque Stainmax. 50 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

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

Switcher Collet

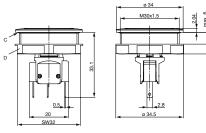
Plastic Nut

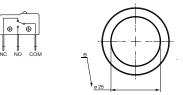
SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Product standa	Irds		
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
<b>(h)</b>	Designed according to	UL 1054	UL standard for safety special-use switches
Application sta	ndards		
Application standa	ards where the product can be used		
Organization Design		Standard	Description
IEC	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Parl 1: Safety requirements
Compliances			
The product comp	olies 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

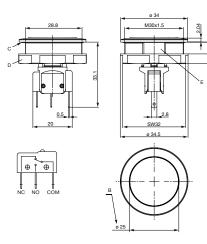
# Dimension [mm]

MSM 30 ST

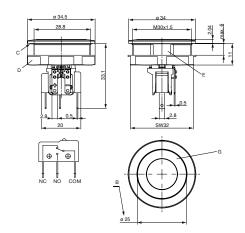




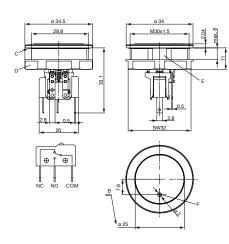
MSM 30 LE



MSM 30 RI Single color

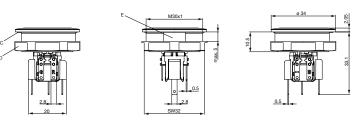






Switches | SCHURTER | 3 |

# MSM 30 RI RGB



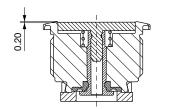


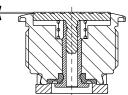


#### Legend

- $\begin{array}{l} \mathsf{B} = \mathsf{Actuating} \ \mathsf{Area} \\ \mathsf{C} = \mathsf{Sealing} \\ \mathsf{D} = \mathsf{Nut} \\ \mathsf{E} = \mathsf{Anti-rotation} \ \mathsf{protection} \\ \mathsf{F} = \mathsf{Point} \ \mathsf{illumination} \end{array}$
- G = Illumination ring

### **Tolerance Range** Actuator Tolerance Range



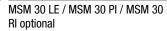


The mounting tolerance range of the actuator varies from 0.2 mm projection length and 0.2 mm short length to the housing edge. The slanting position of the actuator can range within this tolerance.

0.20

### Dimension

MSM 30 ST / MSM 30 RI





\$30,1+0,1

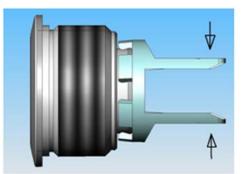
Drilling diagram

28,85+0,05

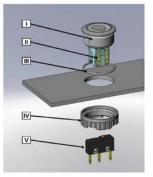
Drilling diagram



### **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.

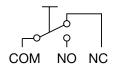
Installation information:

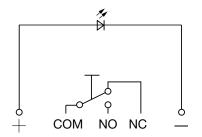
The power supply and the configuration of the flat pin terminals have to be installed correctly for the illumination and micro switch function.
 Insulate the terminals as required. Fully insulated plug-in sleeves are recommended.
 Installation instructions according to VDE-standard DIN VDE 0100-100 or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

### Diagrams



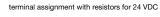
MSM PI

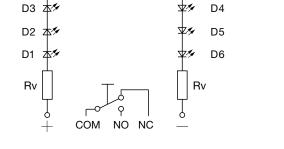


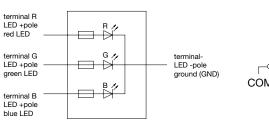


MSM RI / 24 V Single color

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			х	Blue 🔵
RGB Additive 2	x	x		Yellow 😑
RGB Additive 2	х		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 max.			
LED red	30 mA	1.9 VDC	3.0 VDC			
LED green	30 mA	2.4 VDC	3.0 VDC			
LED yellow	30 mA	2.4 VDC	3.0 VDC			
LED blue	20 mA	3.8 VDC	4.5 VDC			
LED red/green	25 mA	2.0 VDC	2.5 VDC			
Attention: Switches are delivered without series resistor.						

### Marking

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

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

# MSM 30

# Lettering Colour of Laser Lettering

Material	Lettering Colour	
Stainless Steel	black	Filled letters

Order Index Letterin	g		
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	lepends on the number of charact	iers	

### **All Variants**

IP Switching Unit	Switching Current	Switching Voltage	Illumination, LED	Housing Material, Torsion Protection	Actuator Material, Tor- sion Protection	Config. Code	Order Number
	[A]	[VAC/ VDC]					
IP40	100 mA	30 VDC	Point Illumination, blue	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 PI blue	1241.6663.1114000
IP40	5/3A	125/250 VAC	Point Illumination, blue	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 PI blue	1241.6663.1124000
IP40	5/3A	125/250 VAC	Point Illumination, white	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 PI white	1241.6663.1125000
IP40	100 mA	30 VDC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 PI red	1241.6663.1111000
IP40	5/3A	125/250 VAC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 PI red	1241.6663.1121000
IP40	5/3A	125/250 VAC	Point Illumination, red	Alu red ,yes	Alu red ,yes	MSM 30 PI red	1241.6663.3121
IP40	5/3A	125/250 VAC	Point Illumination, green	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 PI green	1241.6663.1122000
IP40	10 A	250 VAC	Point Illumination, green	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 PI green	1241.6663.1132000
IP40	100 mA	30 VDC	non-illuminated	Stainless Steel ,no	Stainless Steel ,no	MSM 30 Pcs	1241.6661.1110000
IP40	5/3A	125/250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel ,no	MSM 30 Pcs	1241.6661.1120000
IP40	10 A	250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel ,no	MSM 30 Pcs	1241.6661.1130000
IP67	100 mA	30 VDC	non-illuminated	Stainless Steel ,no	Stainless Steel ,no	MSM 30 Pcs	1241.6661.1170000
IP40	100 mA	30 VDC	RI dotted, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI blue	1241.6664.1114000
IP40	5/3A	125/250 VAC	RI dotted, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI blue	1241.6664.1124000
IP40	10 A	250 VAC	RI dotted, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI blue	1241.6664.1134000
IP40	100 mA	30 VDC	RI homogeneous, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI blue	3-108-977
IP40	5/3A	125/250 VAC	RI homogeneous, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI blue	3-108-978
IP40	10 A	250 VAC	RI homogeneous, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI blue	3-108-979
IP40	5/3A	125/250 VAC	RI dotted, white, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI white	1241.6664.1125000

Switches

IP Switching Unit	Switching Current	Switching Voltage	Illumination, LED	Housing Material, Torsion Protection	Actuator Material, Tor- sion Protection	Config. Code	Order Number
	[A]	[VAC/ VDC]					
IP40	100 mA	30 VDC	RI dotted, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI red	1241.6664.1111000
IP40	5/3A	125/250 VAC	RI dotted, red, 24 VDC	Stainless Steel , yes	Stainless Steel ,yes	MSM 30 RI red	1241.6664.1121000
IP40	100 mA	30 VDC	RI homogeneous, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI red	3-108-964
IP40	5/3A	125/250 VAC	RI homogeneous, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI red	3-108-965
IP40	10 A	250 VAC	RI homogeneous, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI red	3-108-966
IP40	100 mA	30 VDC	RI dotted, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI green	1241.6664.1112000
IP40	5/3A	125/250 VAC	RI dotted, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI green	1241.6664.1122000
IP40	10 A	250 VAC	RI dotted, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI green	1241.6664.1132000
IP40	100 mA	30 VDC	RI homogeneous, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI green	3-108-967
IP40	5/3A	125/250 VAC	RI homogeneous, green, 24 VDC	Stainless Steel , yes	Stainless Steel ,yes	MSM 30 RI green	3-108-968
IP40	10 A	250 VAC	RI homogeneous, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI green	3-108-969
IP40	100 mA	30 VDC	RI dotted, yellow, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI yellow	1241.6664.1113000
IP40	5/3A	125/250 VAC	RI dotted, yellow, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI yellow	1241.6664.1123000
IP40	100 mA	30 VDC	RI homogeneous, RGB, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI RGB	3-102-785
IP40	10 A	250 VAC	RI homogeneous, RGB, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 RI RGB	3-102-787

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.

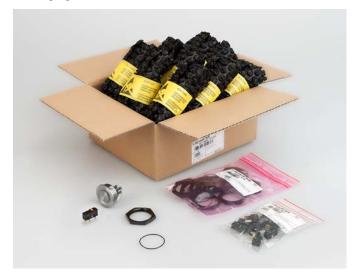
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5 VDC and 12 VDC RI variants (except for RGB) on request (MOQ 500 pieces)

### Packaging unit

10 in box with insert or packed in air cushion bags



### Accessories

Description



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