www.schurter.com/PG70

**MSM 16** 

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



MSM 16 ST



#### Description

- Momentary switch available in version: Standard (ST), with Lettering (LE), from diameter 19 mm with Point Illumination (PI) and with Ring Illumination (RI)

- Assembly method: clip micro-switch into the saddle, secure switch using mounting nut

- Equipped with flat-pin plugs to permit fast connection

#### Standards

- DIN EN 61058-1
- UL 1054

#### Approvals

 Low Voltage Directive 2006/95/EC compliant; following certificate numbers apply to micro switch

- VDE / ENEC Certificate Number (Omron): 40008425, 129246, 125256
- UL / CSA File Number (Omron): E41515
- VDE / ENEC Certificate Number (Marquardt): 097550
- UL / CSA File Number (Marquardt): E41791
- KEMA / ENEC File Number (Cherry): 2089323.01
- UL / CSA File Number (Cherry): E23301

## 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
- optional with point or ring illumination
- IP-Protection: IP 67 from front side to contact area, Micro-Switch is available in versions IP 40 or IP 67, moving actuator is rated IP 40 to frontside
- for use in harsh environments

#### References

Alternative: double-pole switch: MSM DP Alternative: switch with latching function: MSM LA; MSM LA CS neu

Alternative: switch with backlighted illumination: MSM CS

## Weblinks

**Switches** 

html-datasheet, General Product Information, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, e-Shop, CAD-Drawings, Product News, Detailed request for product





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# **MSM 16**

## **Technical Data**

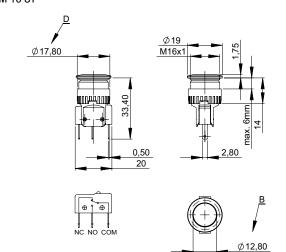
Technical Data	
Electrical Data	
Switching Function	N.O., N.C., N.O./N.C.
Number of Poles	1 pole
Supply Voltage	24 / 12 / 5 VDC Ring Illumination, wi-
	thout series resistor Point Illumina-
	tion, LED operating data are listed in
	separate table
Surge Strength	4 KV MSM ST / MSM LE
Micro Switch 5 A / 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	c, 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 mΩ
Insulation Resistance	< 50 mΩ > 100 MΩ
Insulation Resistance Duration of Bounce <b>Micro Switch for Electrical I</b>	> 100 MΩ
Insulation Resistance Duration of Bounce <b>Micro Switch for Electrical I</b> IP40)	> 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class
Insulation Resistance Duration of Bounce <b>Micro Switch for Electrical I</b> IP40) Contact Material	> 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class
Insulation Resistance Duration of Bounce <b>Micro Switch for Electrical I</b> IP40) Contact Material Switching Voltage	> 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current	> 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A
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Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current	<ul> <li>&gt; 100 MΩ</li> <li>&lt; 5 ms</li> <li>Rating 10 A / 250 VAC (Protection Class</li> <li>Ag</li> <li>max. 250 VAC</li> <li>max. 10 A</li> <li>2500 W</li> <li>0.05 million actuations at Rated Swit-</li> </ul>
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime	<ul> <li>&gt; 100 MΩ</li> <li>&lt; 5 ms</li> <li>Rating 10 A / 250 VAC (Protection Class</li> <li>Ag</li> <li>max. 250 VAC</li> <li>max. 10 A</li> <li>2500 W</li> <li>0.05 million actuations at Rated Switching Capacity</li> </ul>
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Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime Contact Resistance Insulation Resistance	<ul> <li>&gt; 100 MΩ</li> <li>&lt; 5 ms</li> <li>Rating 10 A / 250 VAC (Protection Class</li> <li>Ag</li> <li>max. 250 VAC</li> <li>max. 10 A</li> <li>2500 W</li> <li>0.05 million actuations at Rated Switching Capacity</li> <li>&lt; 30 mΩ</li> <li>&gt; 100 MΩ</li> </ul>
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime Contact Resistance Insulation Resistance Duration of Bounce	<ul> <li>&gt; 100 MΩ</li> <li>&lt; 5 ms</li> <li>Rating 10 A / 250 VAC (Protection Class</li> <li>Ag</li> <li>max. 250 VAC</li> <li>max. 10 A</li> <li>2500 W</li> <li>0.05 million actuations at Rated Switching Capacity</li> <li>&lt; 30 mΩ</li> <li>&gt; 100 MΩ</li> <li>&lt; 5 ms</li> </ul>
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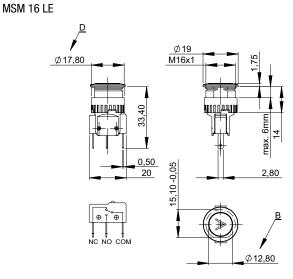
Mechanical Data				
Actuating Force	4.5 N			
Actuating Travel	1.0 mm, for mounting diameter 16, 19, 22 mm 1.2 mm for mounting diameter 30 mm			
Lifetime	1.5 million actuations			
Shock Protection	IK 07 for mounting diameter 19, 22, 30 mm,, IK 06 for mounting diameter 16 mm			
Tightening Torque Plastic Nut	max. 2 Nm for thread M16, 4.5 Nm for M19, 3.5 Nm for M22, 8 Nm for M30			
Tightening Torque Stainless Steel Nut	max. 10 Nm for thread M16, 12 Nm for M19, 16 Nm for M22, 50 Nm for M30			
Climatical Data				
Operating Temperature	-25 to +85 °C			
Storage Temperature	-25 to +85 °C			
IP-Protection	IP 67 Front Side Contact Area, IP 40 Front Side mechanical, IP 40 / IP 67 Rear Side Contact Area optional			
Salt Spray Test (acc. to DIN 50021-SS)	24 h / 48 h / 96 h Residence Time			
Material				
Housing	Stainless Steel			
Actuator	Stainless Steel			
Light Conductor (Point Illumi- nation)	PC			
Illuminated Ring (Ring Illumi- nation)	PA			
Gasket	NBR70			
Switcher Collet	PA			





### Dimensions MSM 16 ST





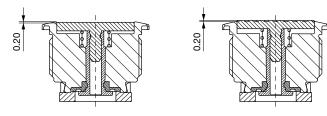
#### Legend

- A = Illumination Area
- B = Actuating Area C = Width Across Flats

 $\mathsf{D}=\mathsf{Nut}$ 

## **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.

## Dimensions

MSM 16 ST

MSM 16 LE

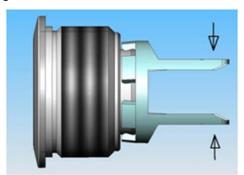




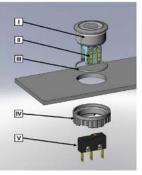


**Switches** 

### **Mounting 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.

Tighten the screw nut according to the torque instructions.
 Clasp the module switching contact into the micro switch holder of the actuator housing.

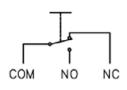
Installation information:

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 ST / MSM LE



### Lettering

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



### Order Index Lettering

	5		
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 = <b>+</b>	057 = <b>STOP</b>	
018 = <b>R</b>	038 = <b>-</b>	058 = <b>ENTER</b>	
019 = <b>S</b>	039 = .	059 = <b>BACK</b>	
020 = <b>T</b>	040 = x	060 = <b>LINE</b>	

## Lettering Colour of Laser Lettering

-	
black	Filled letters
also weblink:	
	black also weblink:

## Variants

Diameter	Switching Current	Switching Voltage	Illumination, LED	Housing Material, Twist Protection	Actuator Material	Config. Code	Order Number
[mm]	[A]	[VAC/ VDC]					
16	100 mA	30 VDC	non-illuminated	Stainless Steel ,no	Stainless Steel	MSM 16 ST	1241.6611.1110000
16	5/3 A	125 / 250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel	MSM 16 ST	1241.6611.1120000
16	10 A	250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel	MSM 16 ST	1241.6611.1130000
16	5/3 A	125 / 250 VAC	non-illuminated	Stainless Steel ,yes	Stainless Steel	MSM 16 LE	1241.6612.1120000

Switches

Legend:

Type: MSM

CS = Ceramic Surface

ST = Standard: not lettered

LE = Lettering: lettered BL = Full Surface Backlighting: Lettering possilbe

Alu red = red anodized aluminum housing, actuator stainless steel

1241.6622.3120062 -> 3 last numbers (062) see Order Index Lettering

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

Ring illuminated versions: 24 VDC supply voltage (12 and 5 VDC on request)

Customer-specific versions on request

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



# **MSM 16**

www.schurter.com/PG70

## Metal Line Switches

## 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 (enclosd in the box)
- Micro switches in a bag (enclosed in the box)

### Accessories

Description



Installation Wrench MSM 16 Installation Wrench

Installation Wrench MSM 22 Installation wrench

