### Momentary action switch double pole



RI homogeneous green



RI dotted red



Point Illumination blue

#### See below: Approvals and Compliances

### Characteristics

- Housing and actuating area material: high-quality stainless steel for use in harsh environments (see technical data)
- 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
- double pole version with two switching contact sets, can be wired as NO, NC or as change-over
- IP-Protection: IP67 from front side to contact area, Micro-Switch is available in versions IP40 or IP67

### References

Alternative: switch with latching function: MSM LA 19 Alternative: switch with backlighted illumination: MSM CS 19; MSM CS 22 Alternative: Other diameter

Alternative Standard version MSM DP 30; MSM 16; MSM 30

### Weblinks

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

#### Description

- Available in version Standard, lettered, with Point Illumination or Ring Illumination
- Assembly method: clip micro-switch into the saddle, secure switch using mounting nut
- Equipped with flat-pin plugs to permit fast connection

### **Technical Data**

Technical Data	
Electrical Data	
Switching Function	momentary
Number of Poles	DPDT
Supply Voltage	24 VDC Ring Illumination , LED opera-
	ting data are listed in separate table
	5 VDC and 12 VDC variants on request
Impulse Withstand Valtage	(MOQ 500 pieces) 4 kV MSM ST / MSM LE
Impulse Withstand Voltage (ESD)	4 KV IVISIVI ST / IVISIVI 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 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
Contact Resistance	
Insulation Resistance Duration of Bounce <b>Micro Switch for Electrical F</b>	< 50 mΩ
Insulation Resistance Duration of Bounce <b>Micro Switch for Electrical F IP40)</b> Contact Material	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class
Insulation Resistance Duration of Bounce <b>Micro Switch for Electrical F IP40)</b> Contact Material Switching Voltage	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC
Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage Switching Current	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A
Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W
Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage Switching Current	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Swit-
Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Swit- ching Capacity
Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime Contact Resistance	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Swit- ching Capacity < 30 mΩ
Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime Contact Resistance Insulation Resistance	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Swit- ching Capacity < 30 mΩ > 100 MΩ
Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime Contact Resistance Insulation Resistance Duration of Bounce	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Swit- ching Capacity < 30 mΩ > 100 MΩ < 5 ms
Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 6 A / 250 VAC,	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Swit- ching Capacity < 30 mΩ > 100 MΩ < 5 ms .IP67
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Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 6 A / 250 VAC, Switching Voltage Switching Current	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Swit- ching Capacity < 30 mΩ > 100 MΩ < 5 ms IP67 max. 250 VAC max. 5
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Actuating Force	5.0 N
Actuating Travel	1.0 mm
Lifetime	1.5 million actuations
Shock Protection	IK 07
Mounting screw torque Plastic Nut	max. 3.5 Nm
Mounting screw torque Stain- less Steel Nut	max. 16 Nm
Climatical Data	
Operating Temperature	-25 to 85 °C
Storage Temperature	-25 to 85 °C
Protection Class	IP67
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 Illumi- nation)	PC
Illuminated Ring (Ring Illumi- nation)	PA for dotted single color variants
	PMMA for homogeneous single color
	variants
Seal Ring	NBR70
Switcher Collet	PA
Intermediate Connector non- illuminated	PA
Intermediate Connector illumi- nated	PA
Switcher Adapter	PA

### **Approvals and Compliances**

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

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

### Approvals

Approval Reference Type:

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

### **Product standards**

Product standards that are referenced

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

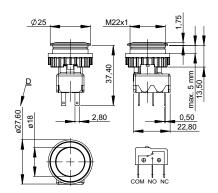
### Compliances

The product complies with following Guide Lines

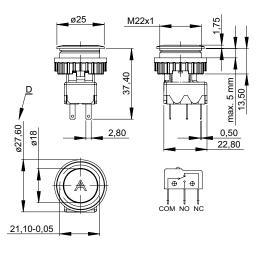
Identification	Details	Initiator	Description
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/836
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

### Dimension [mm]

MSM 22 DP ST



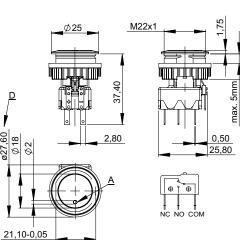
### MSM 22 DP LE



### MSM 22 DP PI

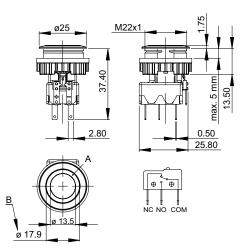
D

ø27,60 Ø18



### MSM 22 DP RI

13,50

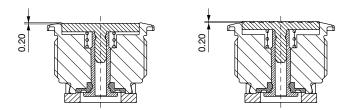


### Legend

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

### **Tolerance Range**

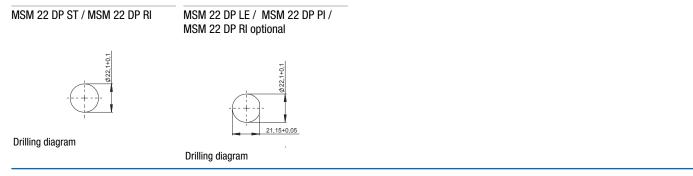
Actuator Tolerance Range



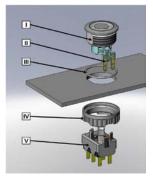
The mounting tolerance range of the actuator varies from 0.2 mm projection length and 0.2 mm short length to the housing edge. The slanting position of the actuator can range within this tolerance.

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



### **Assembly Instructions**



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.

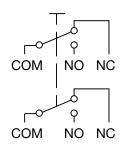
Clasp the module switching contact into the actuator housing. Installation information:

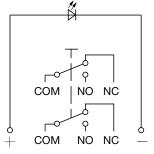
The power supply and the configuration of the flat pin terminals have to be installed correctly for the illumination and micro switch function.
 Insulate the terminals as required. Fully insulated plug-in sleeves are recommended.
 Installation instructions according to VDE-standard DIN VDE 0100-100 or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

MSM DP PI

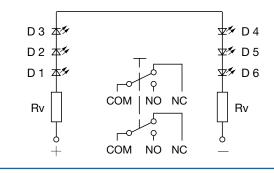
#### Diagrams

MSM DP ST / MSM DP LE





MSM DP RI



### 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 deli	ivered 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 = <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>	077 = ①
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>	

### 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	5/3 A	125/250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel ,no	MSM 22 DP	1241.6931.1120000
IP40	5/3 A	125 / 250 VAC	non-illuminated	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP LE	1241.6932.1120000
IP40	5/3 A	125 / 250 VAC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP PI red	1241.6933.1121000
IP40	5/3 A	125 / 250 VAC	Point Illumination, green	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP PI green	1241.6933.1122000
IP40	5/3 A	125 / 250 VAC	Point Illumination, blue	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP PI blue	1241.6933.1124000
IP40	5/3 A	125 / 250 VAC	RI dotted, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI red	1241.6934.1121000
IP40	5/3 A	125 / 250 VAC	RI dotted, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI green	1241.6934.1122000
IP40	5/3 A	125 / 250 VAC	RI dotted, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI blue	1241.6934.1124000
IP40	5/3 A	125 / 250 VAC	RI homogeneous, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI red	3-108-974
IP40	5/3 A	125 / 250 VAC	RI homogeneous, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI green	3-108-975
IP40	5/3 A	125 / 250 VAC	RI homogeneous, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI blue	3-108-976

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 10 pieces.

5 VDC and 12 VDC variants 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

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



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

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.