Momentary action switch double pole







RI homogeneous green

RI dotted red

Point Illumination blue

See below:

Approvals and Compliances

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

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 CS 22 Alternative: switch with backlighted illumination: MSM CS 22

Alternative: Other diameter

Alternative: Standard version MSM DP 30

Weblinks

pdf data sheet, html datasheet, General Product Information, CAD-

Drawings, Product News, Detailed request for product

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 RI variants (except
	for RGB) on request (MOQ 500 pieces)
Impulse Withstand Voltage (ESD)	2 kV with Ring Illumination
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-
Lifetime	ching Capacity
Contact Resistance	
	< 50 mΩ
Contact Resistance Insulation Resistance Duration of Bounce	
Insulation Resistance Duration of Bounce	$< 50 \text{ m}\Omega$ > 100 M Ω
Insulation Resistance Duration of Bounce Micro Switch for Electrical I	$< 50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40)	$<50~\text{m}\Omega$ $>100~\text{M}\Omega$ $<5~\text{ms}$ Rating 10 A / 250 VAC (Protection Class
Insulation Resistance Duration of Bounce Micro Switch for Electrical IP40) Contact Material	$< 50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class
Insulation Resistance Duration of Bounce Micro Switch for Electrical FIP40) Contact Material Switching Voltage Switching Current	$< 50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC
Insulation Resistance Duration of Bounce Micro Switch for Electrical IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity	$< 50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A
Insulation Resistance Duration of Bounce Micro Switch for Electrical FIP40) Contact Material Switching Voltage Switching Current	$< 50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class Ag $\text{max. } 250 \text{ VAC}$ $\text{max. } 10 \text{ A}$ 2500 W $0.2 \text{ million actuations at Rated Swit-}$
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime	$< 50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class Ag $\text{max. } 250 \text{ VAC}$ $\text{max. } 10 \text{ A}$ 2500 W $0.2 \text{ million actuations at Rated Switching Capacity}$
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime Contact Resistance	$<50~\text{m}\Omega$ $>100~\text{M}\Omega$ $<5~\text{ms}$ Rating 10 A / 250 VAC (Protection Class $\frac{\text{Ag}}{\text{max. }250~\text{VAC}}$ $\frac{\text{max. }10~\text{A}}{2500~\text{W}}$ $0.2~\text{million actuations at Rated Switching Capacity}$ $<30~\text{m}\Omega$
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	$<50~\text{m}\Omega$ $>100~\text{M}\Omega$ $<5~\text{ms}$ Rating 10 A / 250 VAC (Protection Class $\frac{\text{Ag}}{\text{max. }250~\text{VAC}}$ $\frac{\text{max. }10~\text{A}}{2500~\text{W}}$ $0.2~\text{million actuations at Rated Switching Capacity}$ $<30~\text{m}\Omega$ $>100~\text{M}\Omega$ $<5~\text{ms}$
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	$<50~\text{m}\Omega$ $>100~\text{M}\Omega$ $<5~\text{ms}$ Rating 10 A / 250 VAC (Protection Class $\frac{\text{Ag}}{\text{max. }250~\text{VAC}}$ $\frac{\text{max. }10~\text{A}}{2500~\text{W}}$ $0.2~\text{million actuations at Rated Switching Capacity}$ $<30~\text{m}\Omega$ $>100~\text{M}\Omega$ $<5~\text{ms}$
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 Micro Switch 6 A / 250 VAC, Switching Voltage	$<50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $<5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Switching Capacity $<30 \text{ m}\Omega$ $>100 \text{ M}\Omega$ $<5 \text{ ms}$ IP67
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 Micro Switch 6 A / 250 VAC,	$<50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $<5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Switching Capacity $<30 \text{ m}\Omega$ $>100 \text{ M}\Omega$ $<5 \text{ ms}$, JP67 max. 250 VAC
Insulation Resistance Duration of Bounce Micro Switch for Electrical 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	$<50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $<5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Switching Capacity $<30 \text{ m}\Omega$ $>100 \text{ M}\Omega$ $<5 \text{ ms}$ JP67 max. 250 VAC max. 5
Insulation Resistance Duration of Bounce Micro Switch for Electrical 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 Rated Switching Capacity	$< 50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class) Ag $\text{max. } 250 \text{ VAC}$ $\text{max. } 10 \text{ A}$ 2500 W $0.2 \text{ million actuations at Rated Switching Capacity}$ $< 30 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ JP67 $\text{max. } 250 \text{ VAC}$ $\text{max. } 5$ 1250 W
Insulation Resistance Duration of Bounce Micro Switch for Electrical 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 Rated Switching Capacity Lifetime	$<50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $<5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Switching Capacity $<30 \text{ m}\Omega$ $>100 \text{ M}\Omega$ $<5 \text{ ms}$ $ 1P67 max. 250 \text{ VAC} max. 5 1250 \text{ W} 0.05 \text{ million actuations at Rated Switching Capacity}}$
Insulation Resistance Duration of Bounce Micro Switch for Electrical 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 Current Rated Switching Capacity Lifetime Micro Switch O,1 A / 250 VA	$<50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $<5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Switching Capacity $<30 \text{ m}\Omega$ $>100 \text{ M}\Omega$ $<5 \text{ ms}$ $ 1P67 max. 250 \text{ VAC} max. 5 1250 \text{ W} 0.05 \text{ million actuations at Rated Switching Capacity}}$
Insulation Resistance Duration of Bounce Micro Switch for Electrical 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 Current Rated Switching Capacity Lifetime Micro Switch O,1 A / 250 VAC	$< 50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class) Ag $\text{max. } 250 \text{ VAC}$ $\text{max. } 10 \text{ A}$ 2500 W $0.2 \text{ million actuations at Rated Switching Capacity}$ $< 30 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ JP67 $\text{max. } 250 \text{ VAC}$ $\text{max. } 5$ 1250 W $0.05 \text{ million actuations at Rated Switching Capacity}$ $\text{C, JP67 - on request}$
Insulation Resistance Duration of Bounce Micro Switch for Electrical 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 Current Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VAC	$< 50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Switching Capacity $< 30 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$, IP67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 250 VAC
Insulation Resistance Duration of Bounce Micro Switch for Electrical 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 Current Rated Switching Capacity Lifetime Micro Switch 0,1 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 Switching Capacity $<$ 30 mΩ $>$ 100 MΩ $<$ 5 ms $ $ 1P67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Switching Capacity $<$ 30 mΩ $>$ 100 MΩ $<$ 5 ms $ $ 1P67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 250 VAC max. 0.1 25 W
Insulation Resistance Duration of Bounce Micro Switch for Electrical 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 Current Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VAC, Switching Voltage Switching Voltage Switching Voltage Switching Capacity Lifetime	$< 50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class) Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Switching Capacity $< 30 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$, IP67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 250 VAC max. 0.1 25 W 0.05 million actuations at Rated Switching Capacity
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Insulation Resistance Duration of Bounce Micro Switch for Electrical 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 Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VA Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 10,1 A / 250 VA 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 Switching Capacity $<$ 30 mΩ $=$ 100 MΩ $=$ 5 ms $=$ 1250 W $=$ 0.05 million actuations at Rated Switching Capacity $=$ 30 mΩ $=$ 1250 W $=$ 1250 VAC max. 250 VAC max. 0.1 25 W $=$ 0.05 million actuations at Rated Switching Capacity $=$ 25, IP67 - on request
Insulation Resistance Duration of Bounce Micro Switch for Electrical 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 Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VA Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 10,1 A / 250 VA 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 Switching Capacity < 30 mΩ > 100 MΩ < 5 ms , IP67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 0.1 25 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 0.1 25 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 250 VAC
Insulation Resistance Duration of Bounce Micro Switch for Electrical 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 Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VA Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 10 A / 250 VA 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 Switching Capacity < 30 mΩ > 100 MΩ < 5 ms IP67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 250 VAC max. 0.1 25 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 250 VAC max. 0.1 25 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 250 VAC max. 0.1 25 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 250 VAC max. 10 A
Insulation Resistance Duration of Bounce Micro Switch for Electrical 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 Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VA Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 10 A / 250 VA 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 Switching Capacity < 30 mΩ > 100 MΩ < 5 ms , IP67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 0.1 25 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 0.1 25 W 0.05 million actuations at Rated Switching Capacity C, IP67 - on request max. 250 VAC

Actuating Force	5.0 N
Actuating Travel	1.0 mm
Lifetime	1.5 million actuations
Shock Protection	IK07
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	
Housing	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
Plastic Nut	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

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

Product standards 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 standards

(II)

Application standards where the product can be used

Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

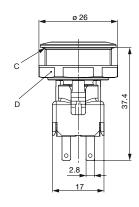
Compliances

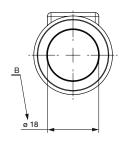
The product complies with following Guide Lines

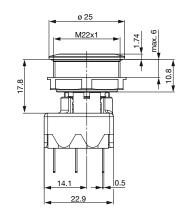
Identificatio	n Details	Initiator	Description
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]

MSM 22 DP ST

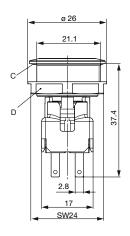




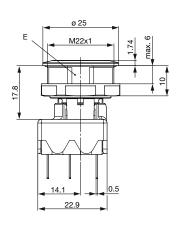


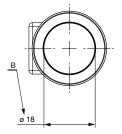


MSM 22 DP LE

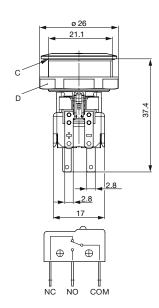


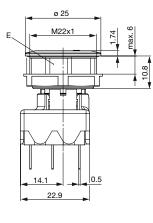


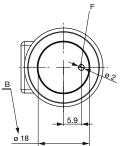




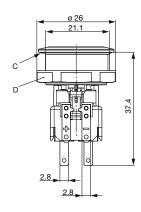
MSM 22 DP PI

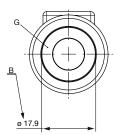


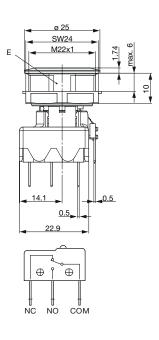




MSM 22 DP RI







Legend

B = Actuating Area

C = Sealing

D = Nut

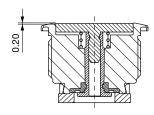
E = Anti-rotation protection

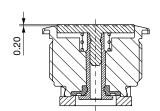
F = Point illumination

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

MSM 22 DP ST / MSM 22 DP RI

MSM 22 DP LE / MSM 22 DP PI / MSM 22 DP RI optional

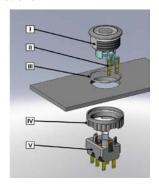




Drilling diagram

Drilling diagram

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.
- 3.) Clasp the module switching contact into the actuator housing.

Installation information:

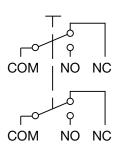
- 1.) The power supply and the configuration of the flat pin terminals have to be installed correctly for the illumination and micro switch function.
- 2.) Insulate the terminals as required. Fully insulated plug-in sleeves are recommended.

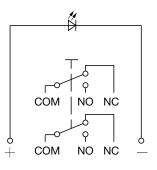
 3.) Installation instructions according to VDE-standard DIN VDE 0100-100 or alternatively IEC 60354 standard

Diagrams

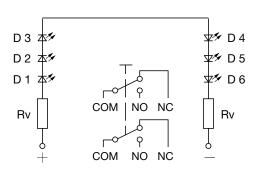
MSM DP ST / MSM DP LE

MSM DP PI





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 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		

Lettering Colour of Laser Lettering

Material	Lettering Colour	
Stainless Steel	black	Filled letters

Order Index Lettering

Laser Marking $001 = A$ $021 = U$ $041 = \div$ $061 = EIN$ $002 = B$ $022 = V$ $042 = *$ $062 = AUS$ $003 = C$ $023 = W$ $043 = E$ $063 = AUF$ $004 = D$ $024 = X$ $044 = \#$ $064 = AB$ $005 = E$ $025 = Y$ $045 = \longleftrightarrow$ $066 = OFF$ $007 = G$ $027 = O$ $047 = \longleftrightarrow$ $067 = UP$ $008 = H$ $028 = 1$ $049 = ↓$ $069 = HIGH$ $010 = J$ $030 = 3$ $050 = ↑$ $070 = LOW$	
$002 = B$ $022 = V$ $042 = *$ $062 = AUS$ $003 = C$ $023 = W$ $043 = =$ $063 = AUF$ $004 = D$ $024 = X$ $044 = #$ $064 = AB$ $005 = E$ $025 = Y$ $045 = \leftrightarrow$ $065 = ON$ $006 = F$ $026 = Z$ $046 = \ddagger$ $066 = OFF$ $007 = G$ $027 = O$ $047 = \rightarrow$ $067 = UP$ $008 = H$ $028 = 1$ $048 = \leftarrow$ $068 = DOWN$ $009 = I$ $029 = 2$ $049 = \downarrow$ $069 = HIGH$	
003 = C 023 = W 043 =	
004 = D 024 = X 044 = # 064 = AB 005 = E 025 = Y 045 = ↔ 065 = ON 006 = F 026 = Z 046 = ‡ 066 = OFF 007 = G 027 = O 047 = → 067 = UP 008 = H 028 = 1 048 = ← 068 = DOWN 009 = I 029 = 2 049 = ↓ 069 = HIGH	
005 = E	
006 = F 026 = Z 046 = \$ 066 = OFF 007 = G 027 = O 047 = → 067 = UP 008 = H 028 = 1 048 = ← 068 = DOWN 009 = I 029 = 2 049 = ↓ 069 = HIGH	
$007 = G$ $027 = O$ $047 = \rightarrow$ $067 = UP$ $008 = H$ $028 = 1$ $048 = \leftarrow$ $068 = DOWN$ $009 = I$ $029 = 2$ $049 = \downarrow$ $069 = HIGH$	
008 = H 028 = 1 048 = ← 068 = DOWN 009 = I 029 = 2 049 = ↓ 069 = HIGH	
009 = I 029 = 2 049 = ↓ 069 = HIGH	
010 = J 030 = 3 050 = ↑ 070 = LOW	
011 = K 031 = 4 051 = % 071 = ON/OFF	
012 = L 032 = 5 052 = $$ 072 = START	
013 = M 033 = 6 053 = CTRL 073 = RESET	
014 = N 034 = 7 054 = RETURN 074 = (1)	
015 = O 035 = SHIFT 075 = $\sqrt[3]{2}$	
$016 = P$ $036 = 9$ $056 = LOCK$ $076 = \triangle$	
017 = Q 037 = + 057 = STOP 077 = ①	
018 = R 038 =- 058 = ENTER	
019 = S 039 =. 059 = BACK	
020 = T 040 = x 060 = LINE	
Please note that the font size depends on the number of characters	

All Variants

IP Switching Unit	Switching Current	Switching Voltage	Illumination, LED	Housing Material, Torsion Protection	Actuator Material, Torsion Protection	Config. Code	Order Number	_
	[A]	[VAC/ VDC]						
IP40	5/3A	125/250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel ,no	MSM 22 DP	1241.6931.1120000	
IP40	5/3A	125/250 VAC	non-illuminated	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP LE	1241.6932.1120000	
IP40	5/3A	125/250 VAC	Point Illumination, blue	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP PI blue	1241.6933.1124000	
IP40	5/3A	125/250 VAC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP PI red	1241.6933.1121000	
IP40	5/3A	125/250 VAC	Point Illumination, green	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP PI green	1241.6933.1122000	
IP40	5/3A	125/250 VAC	RI dotted, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI blue	1241.6934.1124000	
IP40	5/3A	125/250 VAC	RI homogeneous, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI blue	3-108-976	
IP40	5/3A	125/250 VAC	RI dotted, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI red	1241.6934.1121000	
IP40	5/3A	125/250 VAC	RI homogeneous, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI red	3-108-974	
IP40	5/3A	125/250 VAC	RI dotted, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI green	1241.6934.1122000	
IP40	5/3A	125/250 VAC	RI homogeneous, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI green	3-108-975	

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

Accessories

Description



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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