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 DP 16; MSM DP 19

Weblinks

pdf data sheet, 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 RI variants (except
Impulse Withstand Voltage	for RGB) on request (MOQ 500 pieces) 2 kV with Ring Illumination
(ESD) Micro Switch 5 A / 125 VAC	
Contact Material	Ag
Switching Voltage	max. 125/250VAC
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
Insulation Resistance Duration of Bounce	> 100 MΩ < 5 ms
Insulation Resistance Duration of Bounce Micro Switch for Electrical F	> 100 MΩ
Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40)	> 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class
Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material	> 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class
Insulation Resistance Duration of Bounce Micro Switch for Electrical F 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 F 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
Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity	> 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	> 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	> 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	> 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	> 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	> 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,	> 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, Switching Voltage	> 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
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	$> 100 M\Omega$ $< 5 ms$ 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 $< 30 m\Omega$ $> 100 M\Omega$ $< 5 ms$ IP67 max. 250 VAC
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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 Rated Switching Capacity Lifetime	> 100 M Ω < 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 m Ω > 100 M Ω < 5 ms IP67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Swit- ching Capacity C, IP67 - on request
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 Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VAC	> 100 M Ω < 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 m Ω > 100 M Ω < 5 ms IP67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Swit- ching Capacity C, IP67 - on request max. 250 VAC
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 Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VAC Switching Voltage Switching Voltage Switching Voltage Switching Voltage Switching Voltage	$> 100 M\Omega$ $< 5 ms$ 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 $< 30 m\Omega$ $> 100 M\Omega$ $< 5 ms$ IP67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Swit- ching Capacity C, IP67 - on request max. 250 VAC max. 0.1 25 W 0.05 million actuations at Rated Swit-
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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 Current Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VAC Switching Current Rated Switching Capacity Lifetime Micro Switch 10 A / 250 VAC Switching Voltage Switching Voltage Switching Current	> 100 M Ω < 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 m Ω > 100 M Ω < 5 ms .IP67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Swit- ching Capacity C, IP67 - on request max. 250 VAC max. 0.1 25 W 0.05 million actuations at Rated Swit- ching Capacity C, IP67 - on request max. 250 VAC max. 0.1 25 W 0.05 million actuations at Rated Swit- ching Capacity C, IP67 - on request max. 250 VAC max. 0.1 25 W
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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
	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.

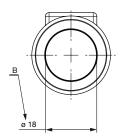
Product standards

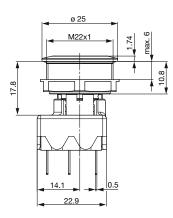
Product standards	s that are referenced				
Organization	Design	Standard	Description		
DIN	Designed according to	DIN EN 61058-1	Switches for appliances. Part 1. General requirements		
(h)	Designed according to	UL 1054	UL standard for safety special-use switches		
Application sta					
Application standa	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 - P 1: Safety requirements		
Compliances					
The product comp	plies 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 22 DP ST

ø 26 С 37.4 Ď 2.8 17

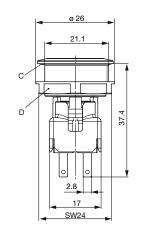


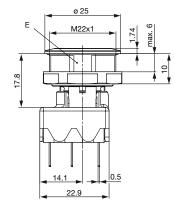


"REACH") entered into force.

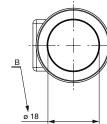


MSM 22 DP LE

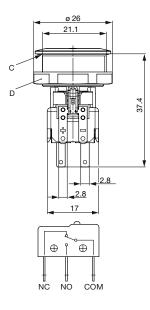


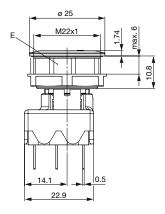


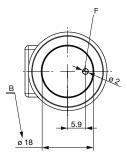




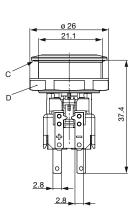
MSM 22 DP PI

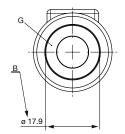


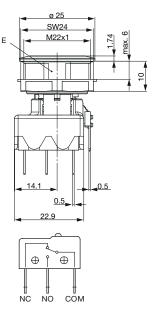




MSM 22 DP RI







Legend

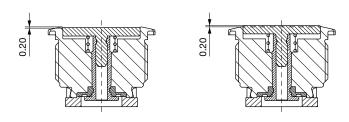
B = Actuating Area

- 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.

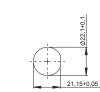
The mounting tolerance range of the actuator varies from 0.2 mm projection length and 0.2 mm short length to the housing edge. The slanting position of the actuator can range within this tolerance.

Dimension

MSM 22 DP ST / MSM 22 DP RI

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

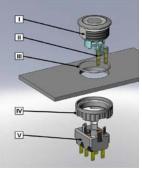




Drilling diagram

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.

COM

Г

COM

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.

q

NO

q

NO

NC

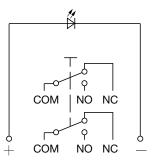
NC

Insulate the terminals as required. Fully insulated plug-in sleeves are recommended.
 Insulate in structions according to VDE-standard DIN VDE 0100-100 or alternatively IEC 60354 standard

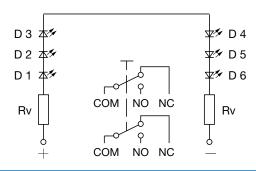
Diagrams

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 delive	ered 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 =÷	061 = EIN
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 = ↔	065 = ON
006 = F	026 = Z	046 = \$	066 = OFF
007 = G	027 = 0	047 = →	067 = UP
008 = H	028 = 1	048 = ←	068 = DOWN
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 = 🕛
015 = O	035 = 8	055 = SHIFT	075 = 🌾
016 = P	036 = 9	056 = LOCK	076 =
017 = Q	037 = +	057 = STOP	077 =
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 charac	ters	

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	5/3A	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 / 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	5/3A	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	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 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 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, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 DP RI red	3-108-974
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
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

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

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Click to view products by Schurter manufacturer:

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 8940K2012
 8971K1133
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 LW1L-M1C70-A
 LW2L-A1C20M-GD
 LW2L-M1C20M-A
 60324L
 M22-D-R-GB0/K11
 M7E

 HRN2
 67021K512
 67081K512X
 701PB580
 7199K101
 810K12910
 810KSV30B
 MML21EA2ADK
 MML21KA3ABK

 MML23KA3AC05K-001
 MML23KW3AA01W
 8418K2
 8442K3
 8450K1
 860K11911T01A
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