Momentary action switch double pole



MSM 30 DP ST

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

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
- optional with point or ring illumination
- 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: Alternative: switch with backlighted illumination: Alternative: Other diameter Alternative: Standard version

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	
Switching Voltage	max. 30 VDC
Switching Current	max. 0.1 A
Rated Switching Capacity	3 W
Lifetime	0.2 million actuations at Rated Swit-
	obing Consoity
	ching Capacity
Contact Resistance	< 50 mΩ
Contact Resistance Insulation Resistance	< 50 mΩ > 100 MΩ
Contact Resistance Insulation Resistance Duration of Bounce	< 50 mΩ > 100 MΩ < 5 ms
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch for Electrical F	< 50 mΩ > 100 MΩ
Contact Resistance Insulation Resistance Duration of Bounce	< 50 mΩ > 100 MΩ < 5 ms
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch for Electrical F IP40) Contact Material Switching Voltage	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class
Contact Resistance 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
Contact Resistance 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
Contact Resistance 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
Contact Resistance 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-
Contact Resistance 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
Contact Resistance 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
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Contact Resistance 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	$< 50 \text{ m}\Omega$ $> 100 \text{ M}\Omega$ $< 5 \text{ ms}$ Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.2 million actuations at Rated Swit- ching 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 Swit-
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Actuating Force	5.0 N
Actuating Travel	1.2 mm
Lifetime	1.5 million actuations
Shock Protection	IK07
Mounting screw torque Plastic Nut	max. 8 Nm
Mounting screw torque Stain- less Steel Nut	max. 50 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
Seal Ring	NBR70
Switcher Collet	PA
Intermediate Connector non- illuminated	PA
Intermediate Connector illumi- nated	PA
Switcher Adapter	PA

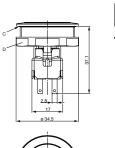
Approvals and Compliances

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.

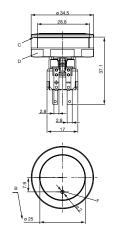
Product standards	r ds that are referenced			
Organization Design Standard Description				
DIN	Designed according to	DIN EN 61058-1	Switches for appliances. Part 1. General requirements	
(UL)	Designed according to	UL 1054	UL standard for safety special-use switches	
Application star Application standa	ndards rds where the product can be used			
Organization Design Standard Description			Description	
IEC	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements	
Compliances				
The product comp	lies with following Guide Lines			
Identification	Details	Initiator	Description	
	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.	

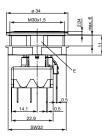
Dimension [mm] MSM 30 DP ST





MSM 30 DP PI





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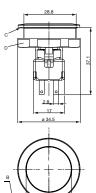
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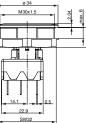
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MSM 30 DP LE

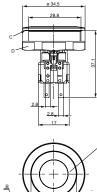


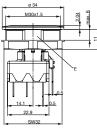


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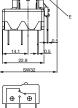


MSM 30 DP RI











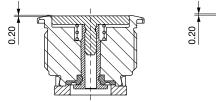
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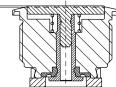
Legend

- B = Actuating Area C = Sealing D = Nut
- E = Anti-rotation protection F = Point illumination
- G = Illumination ring

Tolerance Range

Actuator Tolerance Range

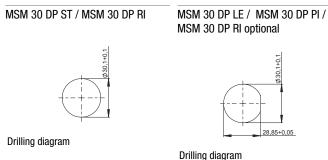




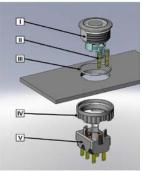
The mounting tolerance range of the actuator varies from 0.2 mm projection length and 0.2 mm short length to the housing edge. The slanting position of the actuator can range within this tolerance.

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



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.

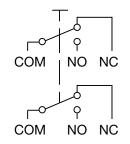
Installation information:

1.) The power supply and the configuration of the flat pin terminals have to be installed correctly for the illumination and micro switch function.

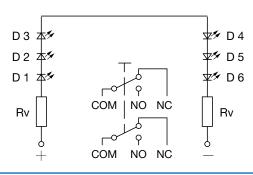
- Insulate the terminals as required. Fully insulated plug-in sleeves are recommended.
 Insulate in the terminal scored of the standard DIN VDE 0100-100 or alternatively IEC 60354 standard

Diagrams

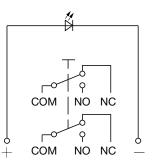
MSM DP ST / MSM DP LE



MSM DP RI



MSM DP PI



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 =÷	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 d	epends on the number of charact	ers	

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 30 DP	1241.6961.1120000	
IP40	5/3 A	125/250 VAC	non-illuminated	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 DP	1241.6962.1120000	
IP40	5/3 A	125/250 VAC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 DP PI red	1241.6963.1121000	
IP40	5/3 A	125/250 VAC	Point Illumination, green	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 DP PI green	1241.6963.1122000	
IP40	5/3 A	125/250 VAC	Ring Illumination, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 DP RI blue	1241.6964.1124000	
IP40	5/3 A	125/250 VAC	Ring Illumination, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 DP RI red	1241.6964.1121000	
IP40	5/3 A	125/250 VAC	Ring Illumination, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 30 DP RI green	1241.6964.1122000	

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



- 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 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:

Schurter:

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