Momentary action switch double pole



RI homogeneous blue



Point Illumination green



non-illuminated grey

#### 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 22; MSM DP 30; MSM 16; MSM 16 vmTest; MSM 30

#### 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**

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) 4 kV MSM ST / MSM LE
(ESD)	
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
Contact Resistance	< 50 mΩ > 100 MΩ
Insulation Resistance Duration of Bounce	
Insulation Resistance Duration of Bounce <b>Micro Switch for Electrical F IP40)</b> Contact Material	> 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	> 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 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
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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	> 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	> 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
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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. 4.5 Nm
Mounting screw torque Stain- less Steel Nut	max. 12 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

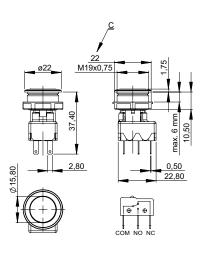
#### **Approvals and Compliances**

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

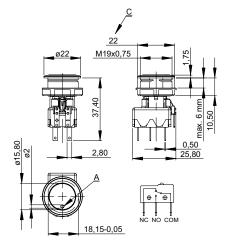
SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical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

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				
(UL)	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 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.				
Compliances							
The product complies with following Guide Lines							
Identification	Details	Initiator	Description				
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863				
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.				

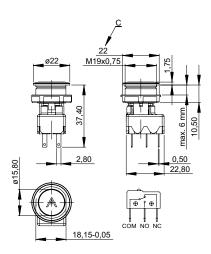
# Dimension [mm] MSM 19 DP ST



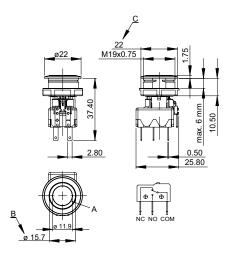
MSM 19 DP PI



MSM 19 DP LE



#### MSM 19 DP RI

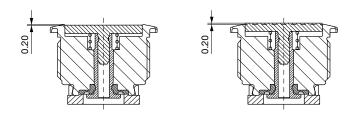


#### Legend

- A = Illumination Area
- B = Actuating Area
- C = Sealing D = Nut
- E = Anti-rotation protection
- F = Point illumination
- G = Illumination ring
- H = Case
- I = Illumination ring
- J = Optional Order: plug with strands
- K = Flexible wire
- L = Illuminated area

#### **Tolerance Range**

Actuator Tolerance Range



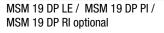
The mounting tolerance range of the actuator varies from 0.2 mm projection length and 0.2 mm short length to the housing edge. The slanting position of the actuator can range within this tolerance.

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 19 DP ST / MSM 19 DP RI



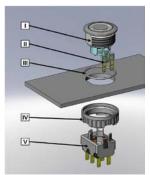




Drilling diagram

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.

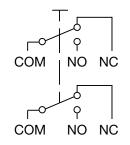
Installation information:

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

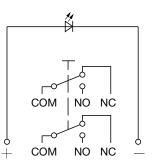
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#### Diagrams

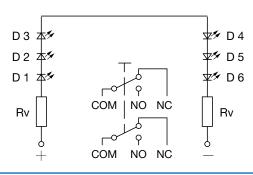
MSM DP ST / MSM DP LE



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.					

#### 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

Switches | **B.SCHURTER** | 5 |

#### **Order Index Lettering**

001 =A021 =U041 = $\div$ 061 =EIN002 =B022 =V042 = *062 =AUS003 =C023 =W043 ==063 =AUF004 =D024 =X044 = #064 =AB005 =E025 =Y045 = $\leftrightarrow$ 065 =ON006 =F026 =Z046 = $\ddagger$ 066 =OFF007 =G027 =0047 = $\rightarrow$ 067 =UP008 =H028 =1048 = $\leftarrow$ 068 =DOWN009 =I029 =2049 = $\ddagger$ 069 =HIGH010 =J030 =3050 = 1070 =LOW011 =K031 =4051 = %071 =ON/OFF013 =M033 =6053 =CTRL073 =RESET014 =N034 =7054 =RETURN074 = $\bigcirc$ 015 =O035 =8055 =SHIFT075 = $\diamondsuit$ 016 =P036 =9056 =LOCK076 = $\bigcirc$ 017 =Q037 = $\leftarrow$ 058 =ENTER071 =O018 =R038 =-059 =BACK077 = $\bigcirc$ 029 =T040 = x060 =LINE060 =LINE	Laser Marking			
$003 = C$ $023 = W$ $043 ==$ $063 = AUF$ $004 = D$ $024 = X$ $044 = #$ $064 = AB$ $005 = E$ $025 = Y$ $045 = \leftrightarrow$ $065 = ON$ $006 = F$ $026 = Z$ $046 = t$ $066 = OFF$ $007 = G$ $027 = O$ $047 = \rightarrow$ $067 = UP$ $008 = H$ $028 = 1$ $048 = \leftarrow$ $068 = DOWN$ $009 = I$ $029 = 2$ $049 = t$ $069 = HIGH$ $010 = J$ $030 = 3$ $050 = t$ $070 = LOW$ $011 = K$ $031 = 4$ $051 = \%$ $071 = ON/OFF$ $012 = L$ $032 = 5$ $052 = $ $072 = START$ $013 = M$ $033 = 6$ $053 = CTRL$ $073 = RESET$ $014 = N$ $034 = 7$ $054 = RETURN$ $074 = 0$ $015 = O$ $035 = 8$ $055 = SHIFT$ $075 = \%$ $016 = P$ $036 = 9$ $056 = LOCK$ $076 = \Box$ $017 = Q$ $037 = +$ $057 = STOP$ $077 = O$ $018 = R$ $038 =  058 = ENTER$ $071 = OI$ $019 = S$ $039 =  059 = BACK$ $059 = BACK$	001 = <b>A</b>	021 = <b>U</b>	041 =÷	061 = <b>EIN</b>
$004 = D$ $024 = X$ $044 = #$ $064 = AB$ $005 = E$ $025 = Y$ $045 = +$ $065 = ON$ $006 = F$ $026 = Z$ $046 = \pm$ $066 = OFF$ $007 = G$ $027 = O$ $047 =  067 = UP$ $008 = H$ $028 = 1$ $048 = +$ $068 = DOWN$ $009 = I$ $029 = 2$ $049 = \pm$ $069 = HIGH$ $010 = J$ $030 = 3$ $050 = 1$ $070 = LOW$ $011 = K$ $031 = 4$ $051 = \%$ $071 = ON/OFF$ $012 = L$ $032 = 5$ $052 = $ $072 = START$ $013 = M$ $033 = 6$ $053 = CTRL$ $073 = RESET$ $014 = N$ $034 = 7$ $054 = RETURN$ $074 = 0$ $015 = O$ $035 = 8$ $055 = SHIFT$ $075 = 5$ $016 = P$ $036 = 9$ $056 = LOCK$ $076 = \Delta$ $017 = Q$ $037 = +$ $057 = STOP$ $077 = \bigcirc$ $018 = R$ $038 =  059 = BACK$ $UT = OT = $	002 = <b>B</b>	022 = <b>V</b>	042 = *	062 = <b>AUS</b>
$005 = E$ $025 = Y$ $045 = \leftrightarrow$ $065 = ON$ $006 = F$ $026 = Z$ $046 = \ddagger$ $066 = OFF$ $007 = G$ $027 = O$ $047 = \rightarrow$ $067 = UP$ $008 = H$ $028 = 1$ $048 = \leftarrow$ $068 = DOWN$ $009 = 1$ $029 = 2$ $049 = \downarrow$ $069 = HIGH$ $010 = J$ $030 = 3$ $050 = 1$ $070 = LOW$ $011 = K$ $031 = 4$ $051 = \%$ $071 = ON/OFF$ $012 = L$ $032 = 5$ $052 = \checkmark$ $072 = START$ $013 = M$ $033 = 6$ $053 = CTRL$ $073 = RESET$ $014 = N$ $034 = 7$ $054 = RETURN$ $074 = \bigcirc$ $015 = O$ $035 = 8$ $055 = SHIFT$ $075 = $$ $016 = P$ $036 = 9$ $056 = LOCK$ $076 = \Box$ $017 = Q$ $037 = +$ $057 = STOP$ $077 = \bigcirc$ $018 = R$ $038 =  058 = ENTER$ $UT = U$ $019 = S$ $039 =  059 = BACK$ $UT = U$	003 = <b>C</b>	023 = <b>W</b>	043 = <b>=</b>	063 = <b>AUF</b>
$006 = F$ $026 = Z$ $046 = 1$ $066 = OFF$ $007 = G$ $027 = 0$ $047 = - $ $067 = UP$ $008 = H$ $028 = 1$ $048 =  068 = DOWN$ $009 = 1$ $029 = 2$ $049 = 1$ $069 = HIGH$ $010 = J$ $030 = 3$ $050 = 1$ $070 = LOW$ $011 = K$ $031 = 4$ $051 = \%$ $071 = ON/OFF$ $012 = L$ $032 = 5$ $052 = \sqrt$ $072 = START$ $013 = M$ $033 = 6$ $053 = CTRL$ $073 = RESET$ $014 = N$ $034 = 7$ $054 = RETURN$ $074 = \bigcirc$ $015 = O$ $035 = 8$ $055 = SHIFT$ $075 = 3\%$ $016 = P$ $036 = 9$ $056 = LOCK$ $076 = \Box$ $017 = Q$ $037 = +$ $057 = STOP$ $077 = \bigcirc$ $018 = R$ $038 =  058 = ENTER$ $039 =  019 = S$ $039 =  059 = BACK$ $076 = C$	004 = <b>D</b>	024 = <b>X</b>	044 = #	064 = <b>AB</b>
$007 = \mathbf{G}$ $027 = 0$ $047 = \rightarrow$ $067 = \mathbf{UP}$ $008 = \mathbf{H}$ $028 = 1$ $048 = \leftarrow$ $068 = \mathbf{DOWN}$ $009 = \mathbf{I}$ $029 = 2$ $049 = \downarrow$ $069 = \mathbf{HIGH}$ $010 = \mathbf{J}$ $030 = 3$ $050 = \uparrow$ $070 = \mathbf{LOW}$ $011 = \mathbf{K}$ $031 = 4$ $051 = \%$ $071 = \mathbf{ON/OFF}$ $012 = \mathbf{L}$ $032 = 5$ $052 = \checkmark$ $072 = \mathbf{START}$ $013 = \mathbf{M}$ $033 = 6$ $053 = \mathbf{CTRL}$ $073 = \mathbf{RESET}$ $014 = \mathbf{N}$ $034 = 7$ $054 = \mathbf{RETURN}$ $074 = 0$ $015 = \mathbf{O}$ $035 = 8$ $055 = \mathbf{SHIFT}$ $075 = 0$ $016 = \mathbf{P}$ $036 = 9$ $056 = \mathbf{LOCK}$ $076 = 0$ $017 = \mathbf{Q}$ $037 = \mathbf{+}$ $057 = \mathbf{STOP}$ $077 = 0$ $018 = \mathbf{R}$ $038 =  058 = \mathbf{ENTER}$ $\mathbf{119 = S}$ $019 = \mathbf{S}$ $039 = .$ $059 = \mathbf{BACK}$ $1100$	005 = <b>E</b>	025 = <b>Y</b>	045 = ↔	065 = <b>ON</b>
$008 = H$ $028 = 1$ $048 = \leftarrow$ $068 = DOWN$ $009 = I$ $029 = 2$ $049 = \downarrow$ $069 = HIGH$ $010 = J$ $030 = 3$ $050 = \uparrow$ $070 = LOW$ $011 = K$ $031 = 4$ $051 = \%$ $071 = ON/OFF$ $012 = L$ $032 = 5$ $052 = \checkmark$ $072 = START$ $013 = M$ $033 = 6$ $053 = CTRL$ $073 = RESET$ $014 = N$ $034 = 7$ $054 = RETURN$ $074 = \bigcirc$ $015 = O$ $035 = 8$ $055 = SHIFT$ $075 = 5$ $016 = P$ $036 = 9$ $056 = LOCK$ $076 = \Box$ $017 = Q$ $037 = +$ $057 = STOP$ $077 = \bigcirc$ $018 = R$ $038 =  058 = ENTER$ $UIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$	006 = <b>F</b>	026 = <b>Z</b>	046 = ↓	066 = <b>OFF</b>
$009 = I$ $029 = 2$ $049 = 1$ $069 = HIGH$ $010 = J$ $030 = 3$ $050 = 1$ $070 = LOW$ $011 = K$ $031 = 4$ $051 = \%$ $071 = ON/OFF$ $012 = L$ $032 = 5$ $052 = \sqrt$ $072 = START$ $013 = M$ $033 = 6$ $053 = CTRL$ $073 = RESET$ $014 = N$ $034 = 7$ $054 = RETURN$ $074 = \bigcirc$ $015 = O$ $035 = 8$ $055 = SHIFT$ $075 = 3\%$ $016 = P$ $036 = 9$ $056 = LOCK$ $076 = \Box$ $017 = Q$ $037 = +$ $057 = STOP$ $077 = \bigcirc$ $018 = R$ $038 =  058 = ENTER$ $039 =  019 = S$ $039 =  059 = BACK$ $076 = C$	007 = <b>G</b>	027 = <b>0</b>	047 = →	067 = <b>UP</b>
$010 = J$ $030 = 3$ $050 = 1$ $070 = LOW$ $011 = K$ $031 = 4$ $051 = \%$ $071 = ON/OFF$ $012 = L$ $032 = 5$ $052 = \checkmark$ $072 = START$ $013 = M$ $033 = 6$ $053 = CTRL$ $073 = RESET$ $014 = N$ $034 = 7$ $054 = RETURN$ $074 = 0$ $015 = O$ $035 = 8$ $055 = SHIFT$ $075 = 35$ $016 = P$ $036 = 9$ $056 = LOCK$ $076 = \Delta$ $017 = Q$ $037 = +$ $057 = STOP$ $077 = ①$ $018 = R$ $038 =  058 = ENTER$ $039 =  019 = S$ $039 =  059 = BACK$ $070 = C$	008 = <b>H</b>	028 = <b>1</b>	048 = ←	068 = <b>DOWN</b>
011 = K031 = 4051 = %071 = ON/OFF012 = L032 = 5052 = $\checkmark$ 072 = START013 = M033 = 6053 = CTRL073 = RESET014 = N034 = 7054 = RETURN074 = $\bigcirc$ 015 = O035 = 8055 = SHIFT075 = $>$ 016 = P036 = 9056 = LOCK076 = $\bigcirc$ 017 = Q037 = +057 = STOP077 = $\bigcirc$ 018 = R038 = -058 = ENTER059 = BACK	009 = <b>I</b>	029 = <b>2</b>	049 = ↓	069 = <b>HIGH</b>
$012 = L$ $032 = 5$ $052 = $ $072 = START$ $013 = M$ $033 = 6$ $053 = CTRL$ $073 = RESET$ $014 = N$ $034 = 7$ $054 = RETURN$ $074 = 0$ $015 = O$ $035 = 8$ $055 = SHIFT$ $075 = 25$ $016 = P$ $036 = 9$ $056 = LOCK$ $076 = \Delta$ $017 = Q$ $037 = +$ $057 = STOP$ $077 = 0$ $018 = R$ $038 =  058 = ENTER$ $039 =  019 = S$ $039 =  059 = BACK$	010 = <b>J</b>	030 = <b>3</b>	050 = ↑	070 = <b>LOW</b>
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       059 = BACK	011 = <b>K</b>	031 = <b>4</b>	051 = %	071 = <b>ON/OFF</b>
$014 = N$ $034 = 7$ $054 = RETURN$ $074 = 0$ $015 = O$ $035 = 8$ $055 = SHIFT$ $075 = 32$ $016 = P$ $036 = 9$ $056 = LOCK$ $076 = \Delta$ $017 = Q$ $037 = +$ $057 = STOP$ $077 = 0$ $018 = R$ $038 =  058 = ENTER$ $019 = S$ $039 = .$ $059 = BACK$	012 = <b>L</b>	032 = <b>5</b>	052 = √	072 = <b>START</b>
$015 = \mathbf{O}$ $035 = 8$ $055 = \mathbf{SHIFT}$ $075 = \frac{1}{25}$ $016 = \mathbf{P}$ $036 = 9$ $056 = \mathbf{LOCK}$ $076 = \Delta$ $017 = \mathbf{Q}$ $037 = \mathbf{+}$ $057 = \mathbf{STOP}$ $077 = 0$ $018 = \mathbf{R}$ $038 = \mathbf{-}$ $058 = \mathbf{ENTER}$ $019 = \mathbf{S}$ $039 = .$ $059 = \mathbf{BACK}$	013 = <b>M</b>	033 = <b>6</b>	053 = <b>CTRL</b>	073 = <b>RESET</b>
016 = P       036 = 9       056 = LOCK       076 = △         017 = Q       037 = +       057 = STOP       077 = ①         018 = R       038 = -       058 = ENTER       019 = S       039 = .       059 = BACK	014 = <b>N</b>	034 = <b>7</b>	054 = <b>RETURN</b>	074 = 🕛
017 = Q     037 =+     057 = STOP     077 = ①       018 = R     038 =-     058 = ENTER       019 = S     039 =.     059 = BACK	015 = <b>O</b>	035 = <b>8</b>	055 = <b>SHIFT</b>	075 = 🌾
018 = R         038 =-         058 = ENTER           019 = S         039 =.         059 = BACK	016 = <b>P</b>	036 = <b>9</b>	056 = <b>LOCK</b>	076 =
019 = <b>S</b> 039 =. 059 = <b>BACK</b>	017 = <b>Q</b>	037 =+	057 = <b>STOP</b>	077 =
	018 = <b>R</b>	038 =-	058 = <b>ENTER</b>	
020 = <b>T</b> 040 = x 060 = <b>LINE</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 19 DP Pcs	1241.6921.1120000	
IP40	5/3 A	125 / 250 VAC	non-illuminated	Stainless Steel ,yes	Stainless Steel ,yes	MSM 19 DP LE	1241.6922.1120000	
IP40	5/3 A	125 / 250 VAC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel ,yes	MSM 19 DP PI red	1241.6923.1121000	
IP40	5/3 A	125 / 250 VAC	Point Illumination, green	Stainless Steel , yes	Stainless Steel ,yes	MSM 19 DP PI green	1241.6923.1122000	
IP40	5/3 A	125 / 250 VAC	Point Illumination, blue	Stainless Steel ,yes	Stainless Steel ,yes	MSM 19 DP PI blue	1241.6923.1124000	
IP40	5/3 A	125 / 250 VAC	RI dotted, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 19 DP RI red	1241.6924.1121000	
IP40	5/3 A	125 / 250 VAC	RI dotted, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 19 DP RI green	1241.6924.1122000	
IP40	5/3 A	125 / 250 VAC	RI dotted, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 19 DP RI blue	1241.6924.1124000	
IP40	5/3 A	125 / 250 VAC	RI homogeneous, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 19 DP RI red	3-108-951	
IP40	5/3 A	125 / 250 VAC	RI homogeneous, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 19 DP RI green	3-108-962	
IP40	5/3 A	125 / 250 VAC	RI homogeneous, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 19 DP RI blue	3-108-963	

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 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

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:

1241.6933.112100	0 1241.6963.1121000	1241.6923.1121000	1241.6933.1122000	1241.6963.1122000
1241.6924.1122000	1241.6924.1124000	1241.6934.1124000	1241.6923.1122000	1241.6964.1122000
1241.6934.1121000	1241.6964.1121000	1241.6924.1121000	1241.6923.1124000	1241.6933.1124000
1241.6961.1120000	1241.6921.1120000	1241.6931.1120000	1241.6962.1120000	1241.6922.1120000
1241.6932.1120000	1241.6934.1122000	1241.6964.1124000		