Metal Switch, Latching Action, Switching Voltage up to 125 VDC / 250 VAC



Metal Switch with ceramic actuator Illumination area white



Metal Switch with ceramic actuator Illumination area red



Newly available with bright illumination

Description

Technical Data

- Switch available in version: Standard (ST), with Lettering (LE), with area illumination (AI)
- Available with bright illumination
- Available with 12 A and 16 A switching current Assembly by mounting with nut and subsequent clipping of the switching element
- Equipped with flat-pin plugs to permit fast connection

See below:

Approvals and Compliances

Characteristics

- Housing material: high-quality stainless steel, actuator material: highly durable ceramic
- with or without surface backlighting in different colours
- Switching voltage up to 125 VDC respectively 250 VAC, switching current up to 16 \mbox{A}
- available with single-pole and double-pole switching system, switching status is easy to discern by looking at or feeling the resting position of the actuator
- For use in harsh environments (see technical data)

References

Alternative: Standard version MSM LA CS 22 Alternative: double-pole switch MSM DP 19 Alternative: Other diameter Alternative: switch with latching function:

Weblinks

pdf data sheet, html datasheet, General Product Information, CAD-Drawings, Product News, Detailed request for product, Video

Electrical Data	
Switching Function	latching
Number of Poles	SPST, DPST
Supply Voltage	24 VDC Illumination area
Impulse Withstand Voltage (ESD)	2 kV with Ring Illumination
Switching Voltage	max. 250 VAC, 30 VDC (125 VDC at 0.5 A)
Switching Current	12 A AC / 16 A AC
Rated Switching Capacity	3000 W
Lifetime	0.05 million actuations (250 VAC / 8 A), 0.1 million actuations (125 VDC / 0,5 A), 0.02 million actuations (250 VAC / 16 A)
Contact Resistance	< 100 mΩ (12 VDC / 1 A)
Insulation Resistance	$> 100 \text{ M}\Omega 500 \text{ VDC}$
Mechanical Data	
Actuating Force	10 N
Actuating Travel	5.2 mm,
Lifetime	0.1 million actuations
Contact Gap	3 mm
Shock Protection	IK07
Mounting screw torque Plastic Nut	max. 4.5 Nm
Mounting screw torque Stain- less Steel Nut	max. 12 Nm

Climatical Data -20 to 85 °C **Operating Temperature** -20 to 85 °C Storage Temperature **Protection Class** IP64 Switching Unit IP40 24 h / 48 h / 96 h Residence Time Salt Spray Test (acc. to DIN 50021-SS) Material Stainless Steel Housing Actuator (disc, outside hou-Ceramics sing) Seal Ring NBR70 Switcher Collet PA66 (UL94-V0 related to $d \ge 1.6$ mm) PA66 (UL94-V0 related to $d \ge 1.6$ mm) Intermediate Connector Contact Pin Adapter PA66 (UL94-V0 related to $d \ge 1.6$ mm) Plastic Nut PA, UL94

Approvals and Compliances

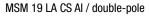
Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

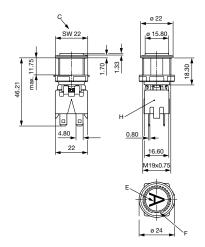
SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical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

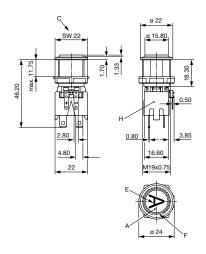
Product standa	ards			
Product standards	s that are referenced			
Organization	Design	Standard	Description	
DIN	Designed according to	DIN EN 61058-1	Switches for appliances. Part 1. General requirements	
(h)	Designed according to	UL 1054	UL standard for safety special-use switches	
Application sta	ndards			
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 - Pa 1: Safety requirements	
Compliances				
The product comp	plies with following Guide Lines			
Identification	Details	Initiator Description		
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863	
ROHS	nons			

Dimension [mm]

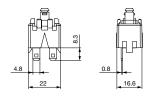
MSM 19 LA CS ST / double-pole







Switching Element single-pole with Push Button Holder



Legend

- A = Illumination Area
- C = Width Across Flats D = Knurled Nut
- E = Lettering
- F = Anti-Rotation
- H = Switching Element

Dimension

MSM 19 LA CS (without torsion protection)





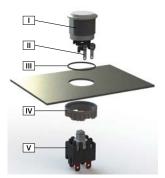
MSM 19 LA CS (with torsion protec-

Drilling diagram

Drilling diagram

tion)

Assembly Instructions



I Housing

II Flat Pin Terminal (Illumination)

III Gasket

IV Nut (Nut type see Dimensions)

V Module Switching Contact

Installation Instruction:

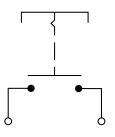
- 1.) Place the gasket accurately on the actuator housing. Then mount the actuator housing assembly into the panel.
- 2.) Tighten the screw nut according to the torque instructions.
- 3.) Clasp the module switching contact into the actuator housing.

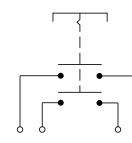
Installation information:

- 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 LA CS ST / single-pole

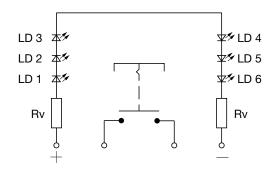


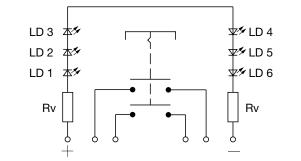


MSM LA CS Al / single-pole

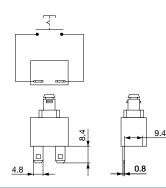
MSM LA CS AI / double-pole

MSM LA CS ST / double-pole

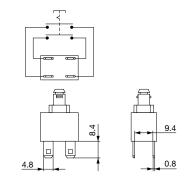




Contact Layout single-pole



Contact Layout double-pole



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	
Ceramic	black	Filled letters

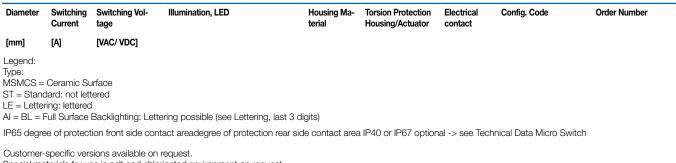
Order Index Lettering

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	iers	

All Variants

Diameter	Switching Current	Switching Vol- tage	Illumination, LED	Housing Ma- terial	Torsion Protection Housing/Actuator	Electrical contact	Config. Code	Order Number
[mm]	[A]	[VAC/ VDC]						
19	12	250 VAC	Backlighted, red, 24 VDC	-	yes / yes	SPST	MSM 19 LA CS AI red	1241.8544
19	12	250 VAC	Backlighted, green, 24 VDC	-	yes / yes	SPST	MSM 19 LA CS Al green	1241.8545
19	12	250 VAC	Backlighted, blue, 24 VDC	-	yes / yes	SPST	MSM 19 LA CS Al blue	1241.8547
19	12	250 VAC	Backlighted, white, 24 VDC	-	yes / yes	SPST	MSM 19 LA CS Al white	1241.8548
19	12	250 VAC	non-illuminated	Stainless Steel	yes / yes	SPST	MSM 19 LA CS Pcs	1241.7221.1110000
19	12	250 VAC	Backlighted, red, 24 VDC	-	yes / yes	DPST	MSM 19 LA CS Al red	1241.8550
19	12	250 VAC	Backlighted, green, 24 VDC	-	yes / yes	DPST	MSM 19 LA CS Al green	1241.8551
19	12	250 VAC	Backlighted, blue, 24 VDC	-	yes / yes	DPST	MSM 19 LA CS Al blue	1241.8553
19	12	250 VAC	Backlighted, white, 24 VDC	-	yes / yes	DPST	MSM 19 LA CS Al white	1241.8554
19	12	250 VAC	non-illuminated	Stainless Steel	yes / yes	DPST	MSM 19 LA CS Pcs	1241.7221.1120000
19	12	250 VAC	Backlighted, yellow, 24 VDC	-	yes / yes	SPST	MSM 19 LA CS Al yel- low	1241.8546
19	12	250 VAC	Backlighted, orange, 24 VDC	-	yes / yes	SPST	MSM 19 LA CS Al orange	1241.8549
19	12	250 VAC	Backlighted, yellow, 24 VDC	-	yes / yes	DPST	MSM 19 LA CS Al yel- low	1241.8552
19	12	250 VAC	Backlighted, orange, 24 VDC	-	yes / yes	DPST	MSM 19 LA CS Al orange	1241.8555
19	16	250 VAC	Backlighted, red, 24 VDC	-	yes / yes	SPST	MSM 19 LA CS Al red	3-101-005
19	16	250 VAC	Backlighted, green, 24 VDC	-	yes / yes	SPST	MSM 19 LA CS Al green	3-101-007
19	16	250 VAC	Backlighted, blue, 24 VDC	-	yes / yes	SPST	MSM 19 LA CS Al blue	3-101-009
19	16	250 VAC	Backlighted, blue, 24 VDC	-	yes / yes	DPST	MSM 19 LA CS Al blue	3-101-010
19	16	250 VAC	Backlighted, white, 24 VDC	-	yes / yes	DPST	MSM 19 LA CS Al white	3-101-011
19	16	250 VAC	Backlighted, white, 24 VDC	-	yes / yes	SPST	MSM 19 LA CS Al white	3-101-022
19	16	250 VAC	Backlighted, red, 24 VDC	-	yes / yes	DPST	MSM 19 LA CS Al red	3-101-023
19	16	250 VAC	Backlighted, green, 24 VDC	-	yes / yes	DPST	MSM 19 LA CS Al green	3-101-024

MSM LA CS 19



Special materials for use in salt and chlorinated environment on request.

The MOQ for standard laser lettering on standard variants is a packing unit.

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



- Actuating elements in ESD safe packaging

- Screw nuts and sealing rings in a bag (enclosed in the box)
- Micro switches (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

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.

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 A3A-7140
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 7310
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