imall

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MSM 19 RI white



Description

- Momentary action switch available in version: Standard (ST), with
- Lettering (LE), from diameter 19 mm with Point Illumination (PI) and with Ring Illumination (RI) Assembly method: clip micro-switch into the saddle, secure switch using mounting nut
- Equipped with flat-pin plugs to permit fast connection

Standards

- DIN EN 61058-1
- UL 1054

Approvals

- Low Voltage Directive 2014/35/EU: compliant; following certificate numbers apply to micro switch
- VDE / ENEC Certificate Number (Omron): 40008425, 129246, 125256
- UL / CSA File Number (Omron): E41515
- VDE / ENEC Certificate Number (Marquardt): 097550
- UL / CSA File Number (Marquardt): E41791
- KEMA / ENEC File Number (Cherry): 2089323.01
- UL / CSA File Number (Cherry): E23301
- CQC File Number (Marquardt): CQC13005090991

- Characteristics
 Housing and actuator material: high-quality stainless steel
- 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
- IP-Protection: IP 67 from front side to contact area, Micro-Switch is
- available in versions IP 40 or IP 67 - for use in harsh environments

References

Alternative: double-pole switch: MSM DP 19; MSM DP 22; MSM DP 30

Alternative: switch with latching function: MSM LA CS 19; MSM LA CS 22; MSM LA 19; MSM LA 22

Alternative: switch with backlighted illumination: MSM CS 19; MSM CS 22; MSM LA CS 19; MSM LA CS 22 Alternative: Other diameter

Weblinks

html-datasheet, General Product Information, CE declaration of conformity, RoHS, CHINA-RoHS, CAD-Drawings, Product News, Detailed request for product

Technical Data

Technical Data	
Electrical Data	
Switching Function	N.O., N.C., N.O./N.C.
Number of Poles	1-pole
Supply Voltage	24 / 12 / 5 VDC Ring Illumination, Point
	Illumination without series resistor, LED
	operating data are listed in separate
	table
Impulse Withstand Voltage (ESD)	4 kV MSM ST / MSM LE
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-
Lifetime	ching Capacity
Contact Resistance	$< 30 \text{ m}\Omega$
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
Duration of Bounce	< 5 ms
	Rating 10 A / 250 VAC (Protection Class
IP40)	
Contact Material	Ag
Switching Voltage	max. 250 VAC
Switching Current	max. 10 A
Rated Switching Capacity	
	2500 W
Lifetime	
	2500 W 0.05 million actuations at Rated Swit-
Contact Resistance	2500 W 0.05 million actuations at Rated Swit- ching Capacity
Contact Resistance Insulation Resistance	2500 W 0.05 million actuations at Rated Switching Capacity < 30 mΩ
Contact Resistance Insulation Resistance Duration of Bounce	2500 W 0.05 million actuations at Rated Switching Capacity < 30 mΩ
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC ,	$\begin{array}{l} 2500 \ W \\ 0.05 \ \text{million actuations at Rated Switching Capacity} \\ < 30 \ \text{m}\Omega \\ > 100 \ \text{M}\Omega \\ < 5 \ \text{ms} \end{array}$
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC, Switching Voltage	$\begin{array}{c} 2500 \ W \\ 0.05 \ \text{million actuations at Rated Switching Capacity} \\ < 30 \ \text{m}\Omega \\ > 100 \ \text{M}\Omega \\ < 5 \ \text{ms} \\ \hline \textbf{IP67} \\ \hline \text{max. 250 VAC} \end{array}$
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC, Switching Voltage Switching Current	$\begin{array}{c} 2500 \ W \\ 0.05 \ \text{million actuations at Rated Switching Capacity} \\ < 30 \ m\Omega \\ > 100 \ M\Omega \\ < 5 \ \text{ms} \end{array}$
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC, Switching Voltage Switching Current Rated Switching Capacity	$\begin{array}{c} 2500 \ W \\ 0.05 \ \text{million actuations at Rated Switching Capacity} \\ < 30 \ \text{m}\Omega \\ > 100 \ \text{M}\Omega \\ < 5 \ \text{ms} \end{array}$
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC, Switching Voltage Switching Current	$\begin{array}{c} 2500 \ W \\ 0.05 \ \text{million actuations at Rated Switching Capacity} \\ < 30 \ \text{m}\Omega \\ > 100 \ \text{M}\Omega \\ < 5 \ \text{ms} \end{array}$
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC, Switching Voltage Switching Current Rated Switching Capacity Lifetime	$\begin{array}{l} 2500 \mbox{ W} \\ 0.05 \mbox{ million actuations at Rated Switching Capacity} \\ < 30 \mbox{ m}\Omega \\ > 100 \mbox{ M}\Omega \\ < 5 \mbox{ ms} \\ \hline \mbox{ IP67} \\ \hline \mbox{ max. } 250 \mbox{ VAC} \\ \hline \mbox{ max. } 5 \\ 1250 \mbox{ W} \\ 0.05 \mbox{ million actuations at Rated Switching Capacity} \\ \end{array}$
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC, Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VA	$\begin{array}{c} 2500 \ W \\ 0.05 \ \text{million actuations at Rated Switching Capacity} \\ < 30 \ \text{m}\Omega \\ > 100 \ \text{M}\Omega \\ < 5 \ \text{ms} \\ \hline \textbf{IP67} \\ \hline \text{max. 250 VAC} \\ \hline \text{max. 5} \\ 1250 \ \text{W} \\ 0.05 \ \text{million actuations at Rated Switching Capacity} \\ \hline \textbf{C, IP67 - on request} \end{array}$
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC, Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VA Switching Voltage	$\begin{array}{l} 2500 \ W \\ 0.05 \ \text{million actuations at Rated Switching Capacity} \\ < 30 \ \text{m}\Omega \\ > 100 \ \text{M}\Omega \\ < 5 \ \text{ms} \end{array}$
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC, Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VA Switching Voltage Switching Current	$\begin{array}{l} 2500 \ W \\ 0.05 \ \text{million actuations at Rated Switching Capacity} \\ < 30 \ \text{m}\Omega \\ > 100 \ \text{M}\Omega \\ < 5 \ \text{ms} \end{array}$
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 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	2500 W 0.05 million actuations at Rated Switching Capacity < 30 mΩ
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC, Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VA Switching Voltage Switching Current	$\begin{array}{r} 2500 \ W \\ 0.05 \ \text{million actuations at Rated Switching Capacity} \\ < 30 \ m\Omega \\ > 100 \ M\Omega \\ < 5 \ \text{ms} \end{array}$
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 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	$\begin{array}{r} 2500 \ W \\ 0.05 \ \text{million actuations at Rated Switching Capacity} \\ < 30 \ m\Omega \\ > 100 \ M\Omega \\ < 5 \ \text{ms} \end{array}$
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 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	2500 W 0.05 million actuations at Rated Switching Capacity < 30 mΩ
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 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 VAC Switching Voltage	2500 W 0.05 million actuations at Rated Switching Capacity < 30 mΩ
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 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 Voltage Switching Voltage Switching Voltage Switching Current	2500 W 0.05 million actuations at Rated Switching Capacity < 30 mΩ
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC, Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VAC Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 10 A / 250 VAC Switching Voltage Switching Voltage Switching Current Rated Switching Capacity	2500 W 0.05 million actuations at Rated Swit- ching Capacity < 30 mΩ > 100 MΩ < 5 ms IP67 max. 250 VAC max. 5 1250 W 0.05 million actuations at Rated Swit- ching Capacity C, IP67 - on request max. 0.1 25 W 0.05 million actuations at Rated Swit- ching Capacity C, IP67 - on request max. 0.1 25 W 0.05 million actuations at Rated Swit- ching Capacity C, IP67 - on request max. 250 VAC max. 10 A 2500 W
Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 5 A / 250 VAC, Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 0,1 A / 250 VAC Switching Voltage Switching Current Rated Switching Capacity Lifetime Micro Switch 10 A / 250 VAC Switching Voltage Switching Voltage Switching Voltage Switching Current	2500 W 0.05 million actuations at Rated Switching Capacity < 30 mΩ

Mechanical Data	
Actuating Force	4.5 N
Actuating Travel	1.0 mm, for mounting diameter 16, 19, 22 mm 1.2 mm for mounting diameter 30 mm
Lifetime	1.5 million actuations
Shock Protection	IK 07 for mounting diameter 19, 22, 30 mm,, IK 06 for mounting diameter 16 mm
Tightening Torque Plastic Nut	max. 2 Nm for thread M16, 4.5 Nm for M19, 3.5 Nm for M22, 8 Nm for M30
Tightening Torque Stainless Steel Nut	max. 10 Nm for thread M16, 12 Nm for M19, 16 Nm for M22, 50 Nm for M30
Climatical Data	
Operating Temperature	-25 to +85 °C
Storage Temperature	-25 to +85 °C
IP-Protection	IP 67 Front Side Contact Area, IP 40 Front Side mechanical, IP 40 / IP 67 Rear Side Contact Area optional
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
Gasket	NBR70

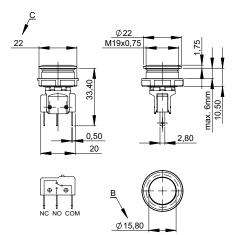
Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in General Product Information

max

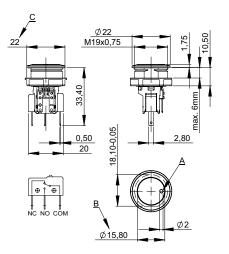
2,80

Dimension

MSM 19 ST



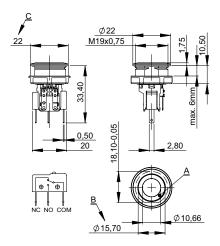
MSM 19 PI



MSM 19 LE

MSM 19 RI

22



Ø15,80

<u>Ø22</u> M19x0,7

40 33.

0,50

20

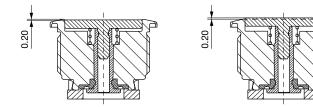
⊕

ио сом

- **Legend** A = Illumination Area B = Actuating Area C = Width Across Flats
- D = Nut

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.

Dimension

MSM 19 ST / MSM 19 RI

MSM 19 LE / MSM 19 PI / MSM 19 **RI** optional

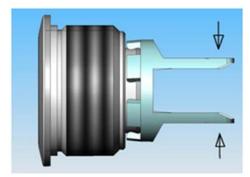


19.1+0. 18,15+0,05

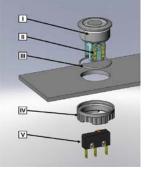
Drilling diagram

Drilling diagram

Assembly Instructions



During assembly, the protruding bars of the holder should not be pressed together.



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.

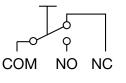
3.) Clasp the module switching contact into the micro switch holder of the actuator housing.

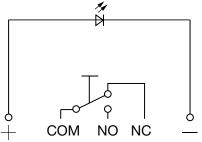
Installation information:

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

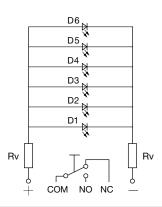
Insulate the terminals as required. Fully insulated plug-in sleeves are recommended.
 Installation instructions according to VDE-standard DIN VDE 0100-100 or alternatively IEC 60354 standard.

Diagrams MSM ST / MSM LE MSM PI

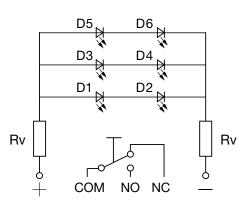




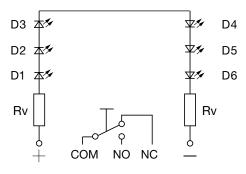
MSM RI / 5 V



MSM RI / 12 V



MSM RI / 24 V



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
Attention: Switches are del	ivered without series resistor.				

Lettering

The last three digits in the order	r 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

	5		
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 = ①
018 = R	038 = -	058 = ENTER	
019 = S	039 = .	059 = BACK	
020 = T	040 = x	060 = LINE	

All Variants

Diameter	Switching Current	Switching Voltage	Illumination, LED	Housing Material, Torsion Protection	Actuator Material	Config. Code	Order Number	
[mm]	[A]	[VAC/ VDC]						
19	100 mA	30 VDC	non-illuminated	Stainless Steel ,no	Stainless Steel	MSM 19 ST	1241.6621.1110000	
19	5/3 A	125 / 250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel	MSM 19 ST	1241.6621.1120000	
19	10 A	250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel	MSM 19 ST	1241.6621.1130000	
19	5 A	250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel	MSM 19 ST	1241.6621.1180000	
19	5/3 A	125 / 250 VAC	non-illuminated	Stainless Steel ,yes	Stainless Steel	MSM 19 LE	1241.6622.1120000	
19	5/3 A	125 / 250 VAC	non-illuminated	Alu red ,yes	Stainless Steel	MSM 19 LE	1241.6622.3120000	
19	5/3 A	125 / 250 VAC	non-illuminated	Alu red ,yes	Stainless Steel	MSM 19 LE	1241.6622.3120057	
19	5/3 A	125 / 250 VAC	non-illuminated	Alu red ,yes	Stainless Steel	MSM 19 LE	1241.6622.3120062	
19	5/3 A	125 / 250 VAC	non-illuminated	Alu red ,yes	Stainless Steel	MSM 19 LE	1241.6622.3120066	
19	5/3 A	125 / 250 VAC	non-illuminated	Alu green ,yes	Stainless Steel	MSM 19 LE	1241.6622.5120000	
19	5/3 A	125 / 250 VAC	non-illuminated	Alu green ,yes	Stainless Steel	MSM 19 LE	1241.6622.5120061	
19	5/3 A	125 / 250 VAC	non-illuminated	Alu green ,yes	Stainless Steel	MSM 19 LE	1241.6622.5120065	
19	5/3 A	125 / 250 VAC	non-illuminated	Alu green ,yes	Stainless Steel	MSM 19 LE	1241.6622.5120072	
19	100 mA	30 VDC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel	MSM 19 PI red	1241.6623.1111000	
19	100 mA	30 VDC	Point Illumination, green	Stainless Steel ,yes	Stainless Steel	MSM 19 PI green	1241.6623.1112000	
19	5/3 A	125 / 250 VAC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel	MSM 19 PI red	1241.6623.1121000	
19	5/3 A	125 / 250 VAC	Point Illumination, green	Stainless Steel ,yes	Stainless Steel	MSM 19 PI green	1241.6623.1122000	
19	5/3 A	125 / 250 VAC	Point Illumination, blue	Stainless Steel ,yes	Stainless Steel	MSM 19 PI blue	1241.6623.1124000	
19	10 A	250 VAC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel	MSM 19 PI red	1241.6623.1131000	

Diameter	Switching Current	Switching Voltage	Illumination, LED	Housing Material, Torsion Protection	Actuator Material	Config. Code	Order Number
[mm]	[A]	[VAC/ VDC]					
19	10 A	250 VAC	Point Illumination, green	Stainless Steel ,yes	Stainless Steel	MSM 19 PI green	1241.6623.1132000
19	100 mA	30 VDC	Ring Illumination, red, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI red	1241.6624.1111000
19	100 mA	30 VDC	Ring Illumination, red, 5 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI red	1241.6624.1111000B
19	100 mA	30 VDC	Ring Illumination, green, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI green	1241.6624.1112000
19	100 mA	30 VDC	Ring Illumination, yellow, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI yellow	1241.6624.1113000
19	100 mA	30 VDC	Ring Illumination, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI blue	1241.6624.1114000
19	100 mA	30 VDC	Ring Illumination, blue, 12 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI blue	1241.6624.1114000E
19	100 mA	30 VDC	Ring Illumination, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI blue	1241.6624.1114074
19	100 mA	30 VDC	Ring Illumination, blue, 12 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI blue	1241.6624.1114074E
19	5/3 A	125 / 250 VAC	Ring Illumination, red, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI red	1241.6624.1121000
19	5/3 A	125 / 250 VAC	Ring Illumination, green, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI green	1241.6624.1122000
19	5/3 A	125 / 250 VAC	Ring Illumination, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI blue	1241.6624.1124000
19	5/3 A	125 / 250 VAC	Ring Illumination, white, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI white	1241.6624.1125000
19	10 A	250 VAC	Ring Illumination, red, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI red	1241.6624.1131000
19	10 A	250 VAC	Ring Illumination, green, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI green	1241.6624.1132000
19	10 A	250 VAC	Ring Illumination, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI blue	1241.6624.1134000
19	5 A	250 VAC	Ring Illumination, red, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI red	1241.6624.1181000
19	5 A	250 VAC	Ring Illumination, green, 24 VDC	Stainless Steel ,yes	Stainless Steel	MSM 19 RI green	1241.6624.1182000
19	5 A	250 VAC	Point Illumination, green / yellow	Stainless Steel ,yes	Stainless Steel	MSM 19 PI green / yellow	3-101-515

Legend: Type: MSM CS = Ceramic Surface ST = Standard: not lettered

LE = Lettering: lettered

AI = BL = Full Surface Backlighting: Lettering possible (see Lettering, last 3 digits)

Alu red = red anodized aluminum housing, actuator stainless steel

1241.6622.3120062 -> 3 last numbers (062) see Order Index Lettering

IP-Protection: IP 67 from front side to contact area, Micro-Switch is available in versions IP 40 or IP 67, see Technical Data Micro-Switch

Ring illuminated versions: supply voltage 24 VDC, 12 VDC (E), 5 VDC (B), (further 12 and 5 VDC versions on request)

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:http://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



MSM Cover Protection cover for MSM 19 and MSM 22

07.03.2017