MCS 19 WITH METAL BODY - MOMENTARY

Models

NEW

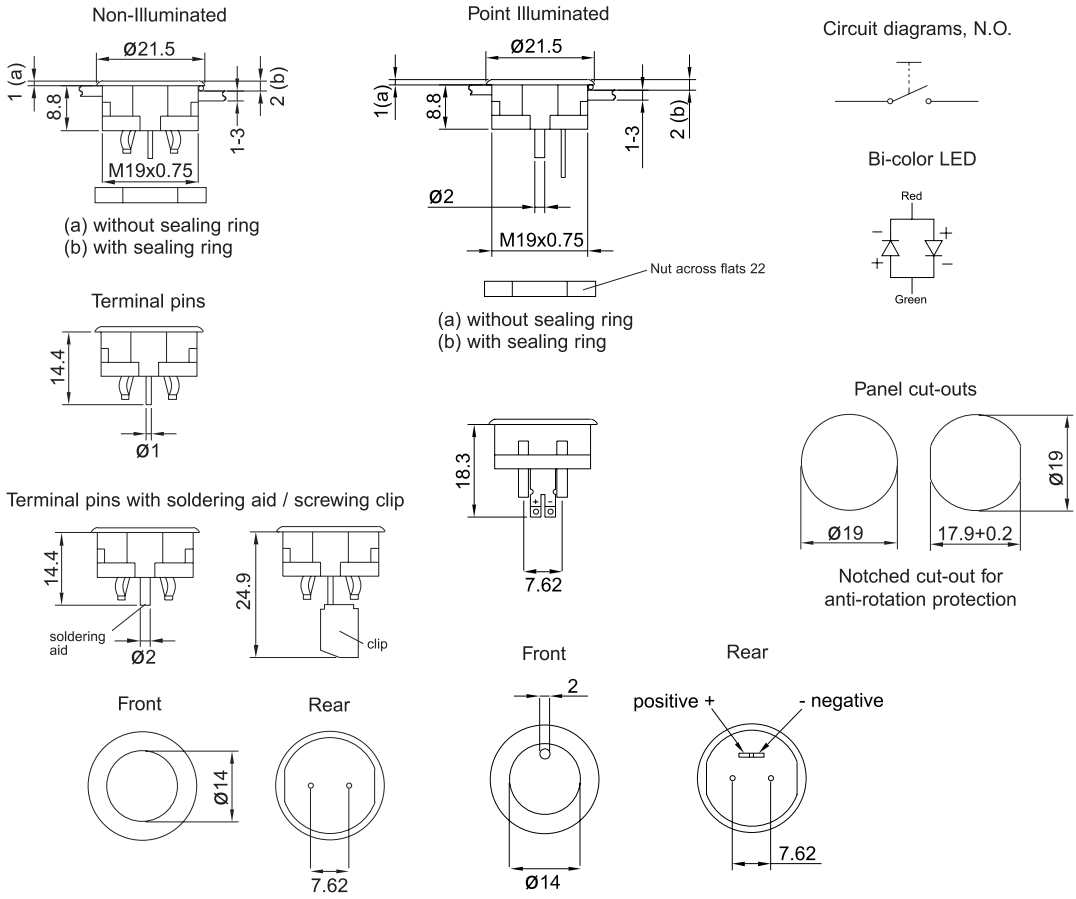
Vandal resistant, with electro-mechanical switching

Non-Illuminated

Point Illuminated

A cost efficient alternative to Piezo technology

Construction



Technical data

Degree of protection	IP 40 from the front IP 65 switching unit	
1. Mechanical Data		
Actuating force	3.7N	
Contact travel	0.40mm	
End stop strength (DIN EN 50102)	IK 05	
2. Electrical data		
Contact material	Silver (Ag)	Gold (Au) (Available on request; non-illuminated only)
Switching voltage	min. 4 V DC; max. 48 V DC	min. 50 mV DC; max. 24 V DC
Switching current max.	125 mA	80 mA
Rated breaking capacity	24 V DC, 50 mA	12 V DC, 30 mA
Lifetime (at rated breaking capacity)	10^6 Cycles	
Initial contact resistance, new	≤50mΩ	
Initial contact resistance after 10^6 cycles	≤150mΩ	
Insulation resistance	>10^8Ω	
Contact bounce time	typ. <5 ms	

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Technical data, continued

3. Other data

Solderability (IEC68-2-20 Test Ta Method 1)	235°C/ 2s
Soldering heat resistance (IEC 68-2-20 Test Tb, Method 1A)	260°C/ 5s
Ambient temperature	-25° C to +60°C
Storage temperature	-25° C to +60° C
Mounting torque	0.4 Nm with sealing ring 1.5 Nm without sealing ring

4. Materials

Contact material silver (gold on request)	Cu Zn 37 2.5 µm Ag
Snap dome	X12 CrNi 177 gold plated
Socket	Thermoplast PA
Metal Housing	Zinc diecasting, nickel plated
Actuator	Without Legend: Zinc diecasting, nickel plated With Legend: Stainless Steel

Part Numbers - Non-Illuminated	Terminal pins	Terminal pins with soldering aid	Terminal pins with screwing clip, premounted
Natural finish	1241.2800	1241.2801	1241.2802

Part Numbers - Point-Illuminated	Terminal pins with soldering aid
Natural finish - red LED	1241.2850
Natural finish - green LED	1241.2851
Natural finish - yellow LED	1241.2852
Natural finish - red/green LED (bi-color)	1241.2853

LED data for Point Illuminated MCS 19 (without resistor)

	Forward Current flow (mA max.)	Forward Current V (I_F=10 mA)	Forward Voltage V (I_F=20 mA)
red	45	1.6	-
green	45	2.0	-
yellow	45	2.0	-
red/green	45	-	2/2.2

Nut and sealing ring included with switch. For additional nut and sealing ring (spare part only) use order number 0098.9219.

Variations

Non-illuminated and Point Illuminated versions available with legend on request. Non-illuminated versions are also available with gold contacts. Contact Schurter Inside Sales Department for customized versions on request (order minimums may apply).

Legend Height
Single characters: 5mm legend height, DIN 1451E1 corresponding to Helvetica normal.
Legends max. 6 characters: 2.5mm legend height, Helvetica condensed legend type.
Symbols (Indize 037-072): 5mm legend height, True Type Symbol legend type.

Legend color is black (lettering on stainless steel actuator only)

Available legends (contact Schurter for order numbers)

A=001 ☐	P=016 ☐	4=031 ☐	↕ =046 ☐	EIN=061 ☐
B=002 ☐	Q=017 ☐	5=032 ☐	→ =047 ☐	AUS=062 ☐
C=003 ☐	R=018 ☐	6=033 ☐	← =048 ☐	AUF=063 ☐
D=004 ☐	S=019 ☐	7=034 ☐	↓ =049 ☐	AB=064 ☐
E=005 ☐	T=020 ☐	8=035 ☐	↑ =050 ☐	ON=065 ☐
F=006 ☐	U=021 ☐	9=036 ☐	%=051 ☐	OFF=066 ☐
G=007 ☐	V=022 ☐	+=037 ☐	√=052 ☐	UP=067 ☐
H=008 ☐	W=023 ☐	-=038 ☐	CTRL=053 ☐	DOWN=068 ☐
I=009 ☐	X=024 ☐	.=039 ☐	RETURN=054 ☐	HIGH=069 ☐
J=010 ☐	Y=025 ☐	×=040 ☐	SHIFT=055 ☐	LOW=070 ☐
K=011 ☐	Z=026 ☐	÷=041 ☐	LOCK=056 ☐	ON/OFF=071 ☐
L=012 ☐	0=027 ☐	*=042 ☐	STOP=057 ☐	START=072 ☐
M=013 ☐	1=028 ☐	==043 ☐	ENTER=058 ☐	
N=014 ☐	2=029 ☐	#=044 ☐	BACK=059 ☐	
O=015 ☐	3=030 ☐	↔=045 ☐	LINE=060 ☐	