Metal Switch Short Stroke



Non-illuminated Actuator stainless steel



Point Illumination red / green Actuator stainless steel



Non-illuminated Actuator zinc die-cast

See below:

Approvals and Compliances

Description

- Momentary action switch available in version Standard, with Point Illumination, Lettering
- Assembly by mounting with nut
- Pin connections, Pins with Soldering Aid or Clip for Pins

Unique Selling Proposition

- Very low mounting depth
- High ingress protection IP67
- Resistant against vandalism
- Long lifetime

Characteristics

- Housing zinc die-cast with nickel plating and two actuator material types: zinc die-cast with nickel plating or stainless steel
- Wide range of materials, colours, lettering, colours of illumination
- Switching voltage max. 48 VDC, switching current max. 125 mA
- Zinc die-cast for housing and actuator
- With or without illumination, no lettering
- Stainless Steel for actuator Optional point illumination and optional laser lettering with standard or customer-specific symbols

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

Technical Data

N.O.
11.0.
LED operating data are listed in separate table
8 kV with Ring Illumination
min. 4 VDC, max. 48 VDC
max. 125 mA
1.2 W
1 million actuations at Rated Switching Capacity
$<$ 50 m Ω , $<$ 150 m Ω after lifetime
> 100 MΩ
< 1 ms
min. 50 mVDC, max. 24 VDC
max. 80 mA
0.36 W
1 million actuations at Rated Switching Capacity
$<$ 50 m Ω , $<$ 150 m Ω after lifetime
> 100 MΩ
< 1 ms

Max. 5 N
Max. 0.4 mm
1 million actuations
IK06
0.4 Nm with Sealing Ring, 1.5 Nm without Sealing Ring
-20 to 60°C
-20 to 60°C
IP67 with O-Ring
24 h / 48 h / 96 h Residence Time
Ag / Au
260 °C / 2 sec according to DIN IEC 60068-2-20
260 °C / 2 sec (IEC 60068-2-20 Test Ta Method 1)
260 °C / 5 sec (IEC 60068-2-20 Test Tb Method 1A)
Zinc Die Casting Nickel Plated
Zinc Die Casting Nickel Plated
Stainless Steel 1.4301
CuZn37 2,5 µm Ag
X 12 CrNi 177 gold plated
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.

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
(0)	Designed for applications acc.	EMC Directive:	EMC directive 2004/108/EWG
<u>IEC</u>	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

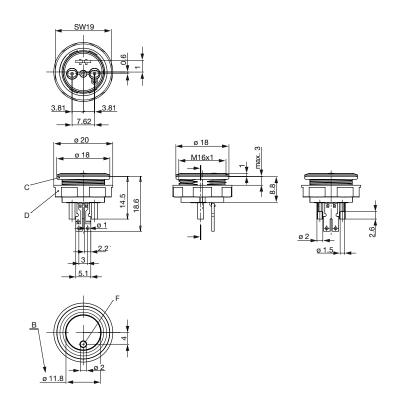
Compliances

The product complies with following Guide Lines

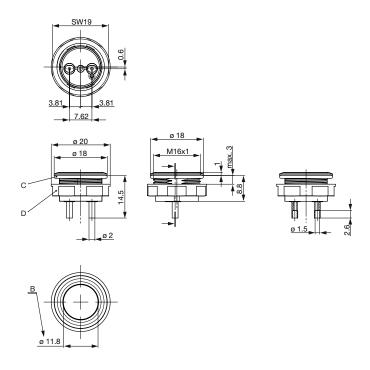
Identification	Details	Initiator	Description
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]

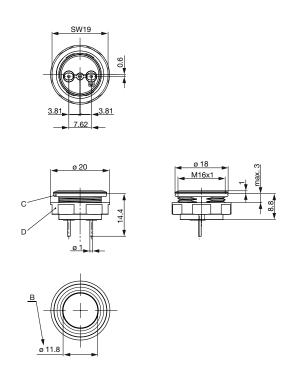
MCS 16 PI



MCS 16 with soldering aid



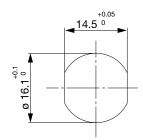
MCS 16 with pins



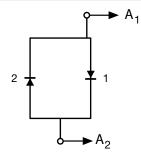
Legend
B = Actuating Area
C = Sealing

D = Nut F = Point illumination

Dimension

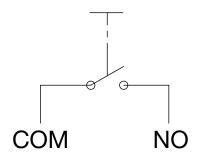


Diagrams



- 1. Illumination color
- 2. Illumination color

 $\begin{array}{lll} A1 + \ and & A2 - & = illumination \ color \ 1 \\ A1 - \ and & A2 + & = illumination \ color \ 2 \end{array}$



Point Illumination

Operating Data	Forward Current max.	Forward Voltage at 10 mA	Forward Voltage max.
LED Colour 1: red/ Colour 2: green	25 mA	2.0 VDC	2.5 VDC
Attention: Switches are delivered without series resistor.			

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 = (1)	
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 depends on the number of characters				

All Variants

Terminal	Contact	Housing Material	Actuator Material	Varnish	Illumination	Color LED	Config. Code	Order Number	•
Pins	Au	Zinc Diecasting	Zinc Diecasting	-	non-illuminated	-	MCS 16	3-109-081	
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Zinc Diecasting	-	Point Illumination	red / green	MCS 16	3-109-091	
Pins	Ag	Zinc Diecasting	Zinc Diecasting	-	non-illuminated	-	MCS 16	3-109-092	
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Zinc Diecasting	-	non-illuminated	-	MCS 16	3-109-095	
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Stainless Steel	-	non-illuminated	-	MCS 16	3-109-096	ı
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Stainless Steel	-	Point Illumination	red / green	MCS 16	3-109-100	

For Lettering versions see table "Order Index Lettering" to determine the symbol

Nut with gasket are enclosed in the box.

Most Popular.

A vailability for all products can be searched real-time: https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

Packaging unit

20 in box with insert



- Actuating elements in ESD safe packaging
- Screw nuts and sealing O-ring in a bag (enclosed in the box)

Accessories

Description



Connecting Terminal MCS Connecting Terminal

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Pushbutton Switches category:

Click to view products by Schurter manufacturer:

Other Similar products are found below:

8940K2012 LW1L-M1C10V-A LW1L-M1C70-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M22-D-R-GB0/K11 M7E-HRN2 67021K512 67081K512X 701PB580 7199K101 810K12910 810KSV30B MML21EA2ADK MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911 8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837 PV3H2B0NN-341 1203MRA A22NZBGANGA A22NZBNANGA A22NZMPATRA A2PMA1X03EC56 A3A-5123-02 A3A-7140 A3A-7310 A3A-7340 A3U-TMW-A2C-5M A595 12037A2ULCSA ABD122N-B 1211390004