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 and 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

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

Technical Data

Electrical Data	
Switching Function	N.O.
Supply Voltage	LED operating data are listed in sepa-
	rate table
Contact Material Silver	
Switching Voltage	min. 4 VDC, max. 48 VDC
Switching Current	max. 125 mA
Rated Switching Capacity	1.2 W
Lifetime	1 million actuations at Rated Switching
	Capacity
Contact Resistance	$<$ 50 m Ω , $<$ 150 m Ω after lifetime
Insulation Resistance	> 100 MΩ
Duration of Bounce	< 1 ms
Contact Material Gold	
Switching Voltage	min. 50 mVDC, max. 24 VDC
Switching Current	max. 80 mA
Rated Switching Capacity	0.36 W
Lifetime	1 million actuations at Rated Switching
	Capacity
Contact Resistance	$<$ 50 m Ω , $<$ 150 m Ω after lifetime
Insulation Resistance	> 100 MΩ
Duration of Bounce	< 1 ms

Max. 5 N
Max. 0.4 mm
1 million actuations
IK 06
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
<u>IEC</u>	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment. $ \\$

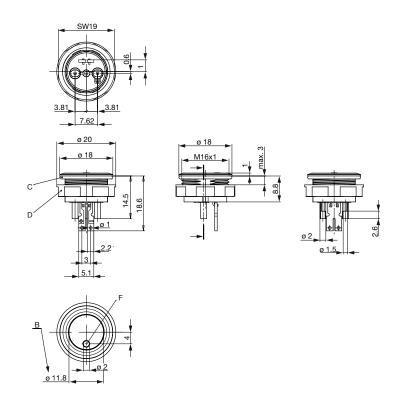
Compliances

The product complies with following Guide Lines

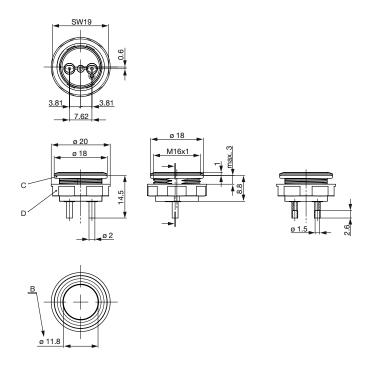
Identification	Details	Initiator	Description
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into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

Dimension [mm]

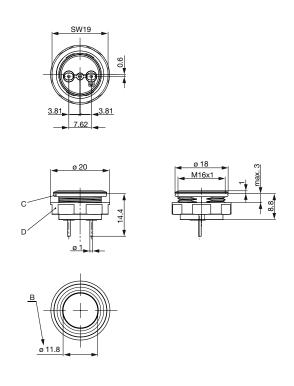
MCS 16 PI



MCS 16 with soldering aid



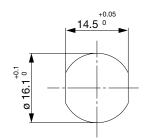
MCS 16 with pins



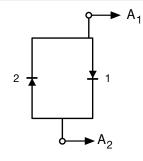
Legend
B = Actuating Area
C = Sealing

D = Nut F = Point illumination

Dimension

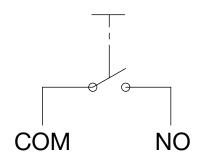


Diagrams



- 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 = (
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	

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	
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

20 in box with insert Packaging unit



- Actuating elements in ESD safe packaging Screw nuts and sealing rings in a bag (enclosd in the box)

Accessories

Description



Connecting Terminal MCS Connecting Terminal

product selected for their own applications.

The specifications, descriptions and illustrations indicated in this document are based on current