Metal Switch Short Stroke







See below:

Approvals and Compliances

Description

- Momentary action switch available in version Standard, with Point Illumination, Lettering, varnished in different colours
- Assembly by mounting with nutPin connections, Pins with Soldering Aid or Clip for Pins

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 48 VDC, switching current 125 mA
- Zinc die-cast for housing and actuator
- For indoor use, no illumination, no lettering
- Stainless Steel for actuator Optional point illumination and laser lettering with standard or customer-specific symbols
- Stainless Steel for housing and actuator for use in harsh environments outdoors (see technical data)
- Varnished Version

Colour adjustments to customer housings possible, as standard: Signal colors red, green and yellow, optional: housing or actuator varnishing according to provided color specifications the varnished actuators are sealed by transparent lacqueur after the laser lettering

Weblinks

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

Technical Data

Electrical Data			
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	< 5 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	< 5 ms		

Mechanical Data	
Actuating Force	3.7 N
Actuating Travel	0.4 mm,
Lifetime	1 million actuations
Shock Protection	IK 05 ,
Tightening Torque	0.4 Nm with Sealing Ring, 1.5 Nm without Sealing Ring
Climatical Data	
Operating Temperature	-20 to +60 °C
Storage Temperature	-20 to +60 °C
Protection Class	IP 65
Switching Unit	IP 65
Salt Spray Test (acc. to DIN 50021-SS)	24 h / 48 h / 96 h Residence Time
Other Data	
Contact Material	Ag / Au
Soldering Data	
Tinning	260 °C / 2 sec according to DIN IEC 60068-2-20
Solderability	260 °C / 2 sec (IEC 60068-2-20 Test Ta Method 1)
Resistance to Soldering Heat	260 °C / 5 sec (IEC 60068-2-20 Test Tb Method 1A)
Material	,
Housings	Stainless Steel 1.4305 / Zinc Die Casting Nickel Plated
Actuator unlettered	Zinc Die Casting Nickel Plated
Actuator lettered	Stainless Steel
Contact	CuZn37 2,5 µm Ag
Snap Dome	X 12 CrNi 177 gold plated
Socket	PA
<u> </u>	

Approvals and Compliances

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

Approvals

Approval Reference Type:

Approval Logo **Certification Body** Description

EU EMC: EMC directive 2004/108/EWG

Application standards

Application standards where the product can be used

Organization Design Standard Description

Designed for applications acc. IEC/UL 60950 IEC 60950-1 includes the basic requirements for the safety of information <u>IEC</u> technology equipment.

Compliances

The product complies with following Guide Lines

RoHS

Identification Details Initiator Description

RoHS

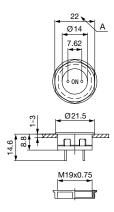
SCHURTER AG

REACH SCHURTER AG On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, $\,$ REACH Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

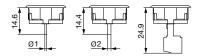
EU Directive RoHS 2011/65/EU

Dimension [mm]

MCS 19



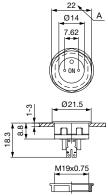
MCS 19 Connection Versions



Drawing 1: Pins Drawing 2: Pins with Soldering Aid

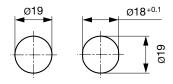
Drawing 3: Clip for Pins

MCS 19 PI



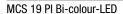
Legend: Zinc Die Casting Version: x = 1 mm without sealing ring x = 2 mm with sealing ring Stainless Steel Version: x = 1 mm without sealing ring x = 1,7 mm with sealing ring

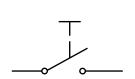
Dimension

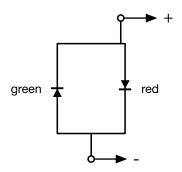


Drilling diagram

Diagrams





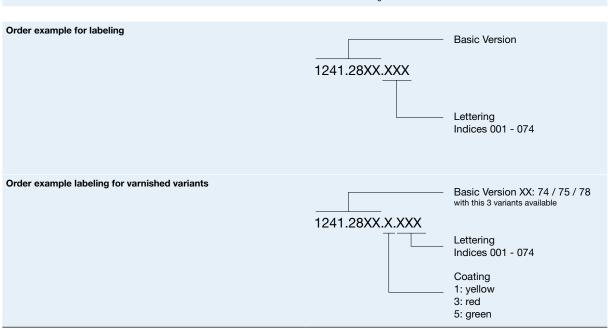


Point Illumination

Operating Data	Forward Current max.	Forward Voltage at 10 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	3.8 VDC	4.5 VDC	
LED red/green	25 mA	2.0 VDC	2.5 VDC	
Attention: Switches are delivered without series resistor.				

Lettering

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	
Stainless Steel	black	Filled letters

Switches and buttons are freely configurable. The variety of marking and lighting options, as well as the different materials and surface shapes are customized executable. Please send us your specific requirement. Detailed request for product

All Variants

Terminal	Kontakte	Housing Material	Actuator Material	Varnish	Illumination	Color LED	Config. Code	Bestellnummer	_
Pins	Ag	Zinc Diecasting	Zinc Diecasting	-	non-illuminated	-	MCS 19 Zinc	1241.2800	J
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Zinc Diecasting	-	non-illuminated	-	MCS 19 Zinc	1241.2801	
Clip for Pins	Ag	Zinc Diecasting	Zinc Diecasting	-	non-illuminated	-	MCS 19 Zinc	1241.2802	
Pins	Ag	Zinc Diecasting	Stainless Steel	-	non-illuminated	-	MCS 19 Zinc/Stainless Steel	1241.2805	
Pins	Ag	Zinc Diecasting	Stainless Steel	-	non-illuminated	-	MCS 19 Zinc/Stainless Steel	1241.2805.057	
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Stainless Steel	-	non-illuminated	-	MCS 19 Zinc/Stainless Steel	1241.2806	
Clip for Pins	Ag	Zinc Diecasting	Stainless Steel	-	non-illuminated	-	MCS 19 Zinc/Stainless Steel	1241.2807	
Pins	Au	Zinc Diecasting	Zinc Diecasting	-	non-illuminated	-	MCS 19 Zinc	1241.2810	
Clip for Pins	Au	Zinc Diecasting	Zinc Diecasting	-	non-illuminated	-	MCS 19 Zinc	1241.2812	
Pins	Au	Zinc Diecasting	Stainless Steel	-	non-illuminated	-	MCS 19 Zinc/Stainless Steel	1241.2815	
Clip for Pins	Au	Zinc Diecasting	Stainless Steel	-	non-illuminated	-	MCS 19 Zinc/Stainless Steel	1241.2817	
Pins	Ag	Stainless Steel	Stainless Steel	-	non-illuminated	-	MCS 19 ES	1241.2820	
Pins with Solde- ring Aid	Ag	Stainless Steel	Stainless Steel	-	non-illuminated	-	MCS 19 ES	1241.2821	
Clip for Pins	Ag	Stainless Steel	Stainless Steel	-	non-illuminated	-	MCS 19 ES	1241.2822	
Clip for Pins	Au	Stainless Steel	Stainless Steel	-	non-illuminated	-	MCS 19 ES	1241.2827	
Pins with Solde- ring Aid	Ag	Stainless Steel	Stainless Steel	-	Point Illumination	red	MCS 19 PI	1241.2830	
Pins with Solde- ring Aid	Ag	Stainless Steel	Stainless Steel	-	Point Illumination	green	MCS 19 PI	1241.2831	
Pins with Solde- ring Aid	Ag	Stainless Steel	Stainless Steel	-	Point Illumination	yellow	MCS 19 PI	1241.2832	
Pins with Solde- ring Aid	Ag	Stainless Steel	Stainless Steel	-	Point Illumination	red / green	MCS 19 PI	1241.2833	
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Stainless Steel	-	Point Illumination	red	MCS 19 PI	1241.2855	
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Stainless Steel	-	Point Illumination	green	MCS 19 PI	1241.2856	
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Stainless Steel	-	Point Illumination	yellow	MCS 19 PI	1241.2857	
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Stainless Steel	-	Point Illumination	red / green	MCS 19 PI	1241.2858	
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Stainless Steel	-	Point Illumination	blue	MCS 19 PI	1241.2859	
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Stainless Steel	Housing green	non-illuminated	-	MCS 19 Zinc/Stainless Steel	1241.2874.5	
Clip for Pins	Ag	Zinc Diecasting	Stainless Steel	Housing yellow	non-illuminated	-	MCS 19 Zinc/Stainless Steel	1241.2875.1	
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Stainless Steel	Actuator red	non-illuminated	-	MCS 19 Zinc/Stainless Steel	1241.2878.3	

For Lettering versions see tables "Lettering" and "Order Index Lettering" to determine the symbol

Nut with gasket 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 20 in box with insert (20 pcs, with connecting terminal 10 pcs.)



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



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

Accessories

Description



Connecting Terminal MCS 19 Connecting Terminal