Metal Switch Short Stroke



metal switch Point Illumination red / green

Description



metal switch lettered

- Momentary action switch available in version Standard, with Point Illu-

mination, Lettering, varnished in different colours

Assembly by mounting with nutPin connections, Pins with Soldering Aid or Clip for Pins



metal switch Point Illumination blue

See below: Approvals and Compliances

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
- 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

pdf data sheet, 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	$< 50 \mathrm{m}\Omega, < 150 \mathrm{m}\Omega$ after lifetime
Insulation Resistance	> 100 MΩ
Duration of Bounce	< 1 ms

3.7 N		
0.4 mm		
1 million actuations		
IK 06		
0.4Nm with Sealing Ring, 1.5 Nm wit- hout 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)		
Stainless Steel 1.4301 / Zinc Die Ca- sting Nickel Plated		
Zinc Die Casting Nickel Plated		
Stainless Steel		
CuZn37 2,5 µm Ag		
X 12 CrNi 177 gold plated		
PA		

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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.

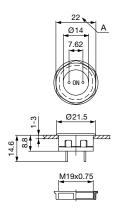
Application standards

Application standards where the product can be used

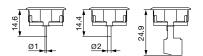
Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.
Compliances The product comp	lies with following Guide Lines		
Identification	Details	Initiator	Description
COMPLIANT	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]

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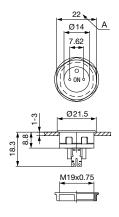


MCS 19 Connection Versions



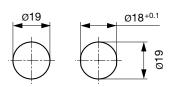
Drawing 1: Pins Drawing 2: Pins with Soldering Aid Drawing 3: Clip for Pins

MCS 19 PI



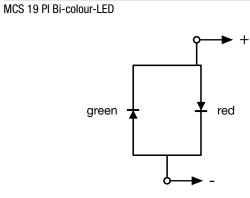
Legend: Zinc Die Casting Version: x = 1 mm without sealing ring x = 2 mm with sealing ring Stainless Steel Version: x = 1 mm without sealing ring x = 1,7 mm with sealing ring

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.					

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Lettering

Lettering		
The last three digits in the order number define the lettering:		
000	No Lettering	
001-074	Standard Lettering	
101-	Customized Lettering	
Order example for labeling	1241.28XX.XXX	Basic Version
		Lettering Indices 001 - 074
Order example labeling for varnished variants	1241.28XX.X.XXX	Basic Version XX: 74 / 75 / 78 with this 3 variants available
		Lettering Indices 001 - 074

Coating 1: yellow 3: red 5: green

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
H = 800	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	

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All Variants

Terminal	Contact	Housing Material	Actuator Material	Varnish	Illumination	Color LED	Config. Code	Order Number
Pins	Ag	Zinc Diecasting	Zinc Diecasting	-	non-illuminated	-	MCS 19 Zinc	1241.2800
Pins with Solde- ring Aid	Ag	Zinc Diecasting	Zinc Diecasting	-	non-illuminated	-	MCS 19 Zinc	1241.2801
Screw terminal	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 with Solde- ring Aid	Ag	Zinc Diecasting	Stainless Steel	-	non-illuminated	-	MCS 19 Zinc/Stainless Steel	1241.2806
Screw terminal	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
Screw terminal	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
Screw terminal	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
Screw terminal	Ag	Stainless Steel	Stainless Steel	-	non-illuminated	-	MCS 19 ES	1241.2822
Screw terminal	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	Stainless Steel	Stainless Steel	-	Point Illumination	blue	MCS 19 PI	1241.2834
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
Screw terminal	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 table "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)

Accessories

Description



Connecting Terminal MCS Connecting Terminal



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