Metal Switch Short Stroke Ring Illuminated



Description
- Momentary switch available in version ring Illumination and Lettering
- Assembly by mounting with nut
- Flexible wire connection

Unique Selling Proposition
- Flat front design metal made
- Switching voltage 48 VDC, switching current 125 mA
- With multicolor ring illumination

Characteristics
- Housing material: aluminum or stainless steel, actuator material types: zinc die-cast or stainless steel
- for use in harsh environments (see technical data)

Weblinks
html-datasheet, General Product Information, CE declaration of conformity, RoHS, CHINA-RoHS, CAD-Drawings, Product News, Detailed request for product, Microsite

Technical Data

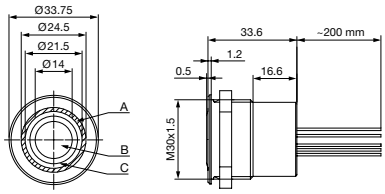
Electrical Data	
Supply Voltage	LED operating data are listed in separate table
Supply Voltage Ring Illumination	24 VDC, Multicolor: 5 - 28 VDC
Switching Voltage	min. 4 VDC , max. 48 VDC
Switching Current	max. 125 mA
Rated Switching Capacity	1.2 W
Lifetime	1 million actuations at Rated Switching Capacity
Contact Resistance	< 50 mΩ, < 150 mΩ
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 ,
Climatical Data	
Operating Temperature	-20 to +60 °C
Storage Temperature	-20 to +60 °C
IP-Protection	IP 65 Front Side Contact Area, IP 40 Front Side mechanical, IP 67 Illumination
Salt Spray Test (acc. to DIN 50021-SS)	24 h / 48 h / 96 h Residence Time
Material	
Contact Material	Ag
Housings	Aluminium anodized
Finger Guide	Zinc Die Casting Nickel Plated
Actuator unlettered	Zinc Die Casting Nickel Plated
Actuator lettered	Stainless Steel

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in General Product Information

Dimension [mm]

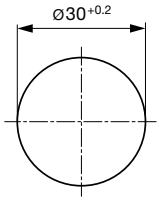
MCS 30 RI



Legend:
A = Illumination Area
B = Actuating Area
C = Finger Guide
Lettering:
- optional with/without lettering
- location of the wires to the location of the lettering is not defined

Dimension

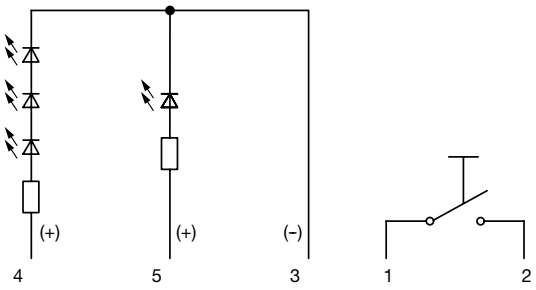
Front Panel Drilling MCS 30 RI



Drilling diagram

Diagrams

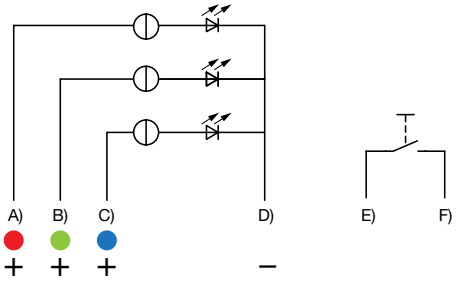
For 24 V power requirement:
On the connection side the switch has 4 or 5 wires depending on the type of illumination. The colours of the wire 4 and 5 correspond with the illumination colours. The wire 3 (black) is the command ground. Cable 1 und 2 (2-times white) are input and output of the switch.



Lighting options for RGY

Lighting type	Active terminal A) ●	Active terminal B) ●	Active terminal C) ●	Resulting Color
Multicolor Singlecolor	A			Red ●
Multicolor Singlecolor		B		Green ●
Multicolor Singlecolor			C	Yellow ●

MCS 30 RI Multicolor



A) Cable (color of the LED), Supply voltage
B) Cable (color of the LED), Supply voltage
C) Cable (color of the LED), Supply voltage
D) Cable (black), Common mass
E) Cable (white), Input and output MCS switch
F) Cable (white), Input and output MCS switch

Multicolor lighting options

Lighting type	Active terminal A) ●	Active terminal B) ●	Active terminal C) ●	Resulting Color
Multicolor Singlecolor	A			Red ●
Multicolor Singlecolor		B		Green ●
Multicolor Singlecolor			C	Blue ●
Multicolor RGB Additive 2	A	B		Yellow ●
Multicolor RGB Additive 2	A		C	Magenta ●
Multicolor RGB Additive 2		B	C	Cyan ●
Multicolor RGB Additive 3	A	B	C	White ○

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

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

Housing Material	Finger guide Material	Actuator Material	Lettering	Illumination, LED	Config. Code	Bestellnummer
Aluminum	Zinc Dieca-sting	Zinc Diecasting	lettering not possible	Ring Illumination, red, 24 VDC	MCS 30 RI	1241.6400
Aluminum	Zinc Dieca-sting	Zinc Diecasting	lettering not possible	Ring Illumination, green, 24 VDC	MCS 30 RI	1241.6401
Aluminum	Zinc Dieca-sting	Zinc Diecasting	lettering not possible	Ring Illumination, yellow, 24 VDC	MCS 30 RI	1241.6402
Aluminum	Zinc Dieca-sting	Zinc Diecasting	lettering not possible	Ring Illumination, red / green, 24 VDC	MCS 30 RI	1241.6403
Aluminum	Zinc Dieca-sting	Zinc Diecasting	lettering not possible	Ring Illumination, blue, 24 VDC	MCS 30 RI	1241.6404
Aluminum	Zinc Dieca-sting	Stainless Steel	lettering possible	Ring Illumination, red, 24 VDC	MCS 30 RI	1241.6405
Aluminum	Zinc Dieca-sting	Stainless Steel	lettering possible	Ring Illumination, green, 24 VDC	MCS 30 RI	1241.6406
Aluminum	Zinc Dieca-sting	Stainless Steel	lettering possible	Ring Illumination, yellow, 24 VDC	MCS 30 RI	1241.6407
Aluminum	Zinc Dieca-sting	Stainless Steel	lettering possible	Ring Illumination, red / green, 24 VDC	MCS 30 RI	1241.6408
Aluminum	Zinc Dieca-sting	Zinc Diecasting	lettering not possible	Ring Illumination, white, 24 VDC	MCS 30 RI	1241.6437
Aluminum	Zinc Dieca-sting	Zinc Diecasting	lettering not possible	Ring Illumination, multicolor, 5 - 28 VDC	MCS 30 RI	1241.6454
Aluminum	Zinc Dieca-sting	Zinc Diecasting	lettering not possible	Ring Illumination, RGY, 5 - 28 VDC	MCS 30 RI	1241.6455
Stainless Steel	Stainless Steel	Stainless Steel	lettering possible	Ring Illumination, multicolor, 5 - 28 VDC	MCS 30 RI	1241.6456

The MCS 30 switch versions "Lettering possible" can be lettered according to the lettering indices.

The contact material is silver

Terminal: wire 200 mm

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 cardboard box packed in air cushion bag



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

26.10.2017

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.