

Metal Switch Short Stroke Ring Illuminated



Approvals and Compliances

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)
- IEC/UL 60950

Weblinks

[html-datasheet](#), [General Product Information](#), [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	< 50mΩ, < 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

Approvals and Compliances

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

Application standards

Application standards where the product can be used

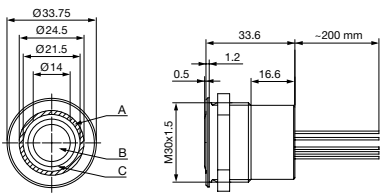
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
	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.

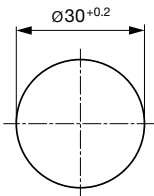
Dimension [mm]
MCS 30 RI



- 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

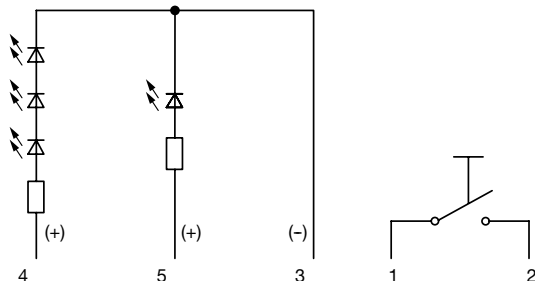


Drilling diagram

Diagrams

For 24 V power requirement:

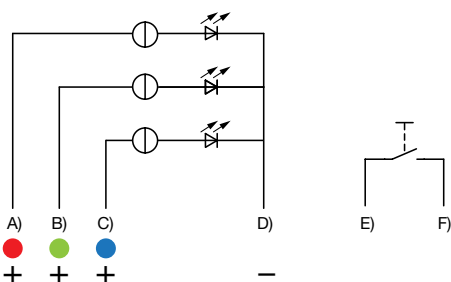
On the connection side the switch has 4 or 5 wires depending on the type of illumination. The colours of the wire 4 and 5 correspond with the illumination colours. The wire 3 (black) is the command ground. Cable 1 und 2 (2-times white) are input and output of the switch.



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 Diecasting	Zinc Diecasting	lettering not possible	Ring Illumination, red, 24 VDC	MCS 30 RI	1241.6400
Aluminum	Zinc Diecasting	Zinc Diecasting	lettering not possible	Ring Illumination, green, 24 VDC	MCS 30 RI	1241.6401
Aluminum	Zinc Diecasting	Zinc Diecasting	lettering not possible	Ring Illumination, yellow, 24 VDC	MCS 30 RI	1241.6402
Aluminum	Zinc Diecasting	Zinc Diecasting	lettering not possible	Ring Illumination, red / green, 24 VDC	MCS 30 RI	1241.6403
Aluminum	Zinc Diecasting	Zinc Diecasting	lettering not possible	Ring Illumination, blue, 24 VDC	MCS 30 RI	1241.6404
Aluminum	Zinc Diecasting	Stainless Steel	lettering possible	Ring Illumination, red, 24 VDC	MCS 30 RI	1241.6405
Aluminum	Zinc Diecasting	Stainless Steel	lettering possible	Ring Illumination, green, 24 VDC	MCS 30 RI	1241.6406
Aluminum	Zinc Diecasting	Stainless Steel	lettering possible	Ring Illumination, yellow, 24 VDC	MCS 30 RI	1241.6407
Aluminum	Zinc Diecasting	Stainless Steel	lettering possible	Ring Illumination, red / green, 24 VDC	MCS 30 RI	1241.6408
Aluminum	Zinc Diecasting	Zinc Diecasting	lettering not possible	Ring Illumination, white, 24 VDC	MCS 30 RI	1241.6437
Aluminum	Zinc Diecasting	Zinc Diecasting	lettering not possible	Ring Illumination, multicolor, 5 - 28 VDC	MCS 30 RI	1241.6454
Aluminum	Zinc Diecasting	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 (enclosed in the box)
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