

Touchless Switch



Illuminated
green

Non-illuminated

See below:
Approvals and Compliances

Description

- Touchless Momentary (MO) push button
- Multicolor illumination
- Standard sensitivity for glass thickness of up to 2mm
- Quick and easy installation behind all materials (glass, plastic, wood, metal,...). There must be a small viewing window for the sensor.

Unique Selling Proposition

- Allows free design
- Invisible installation
- Small mounting depth

Characteristics

- Insensitive to water and rain
- Area illumination
- Wearless, no moving parts
- Wiping tolerant
- 3M Adhesive transfer tape 468MP

Other versions on request

- Design-In-Kit
- Switching type latching

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [CAD-Drawings](#), [Product News](#), [Detailed request for product](#)

Technical Data

Electrical Data

Switching Voltage	max. 42 VAC/ 60 VDC
Switching current	max. 100 mA
Switch Resistance OFF	> 10 MΩ
Switch Resistance ON	< 16Ω
Supply Voltage	5 - 28 VDC
Current Consumption all LEDs	adjustable by the customer
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Output	OptoMOS Relais
Lifetime	> 100 million actuations

Mechanical Data

Actuation Type	optical
Actuating Force	none

Climatical Data

Operating Temperature	-40 to 85 °C
Storage Temperature	-40 to 85 °C

Approvals and Compliances

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

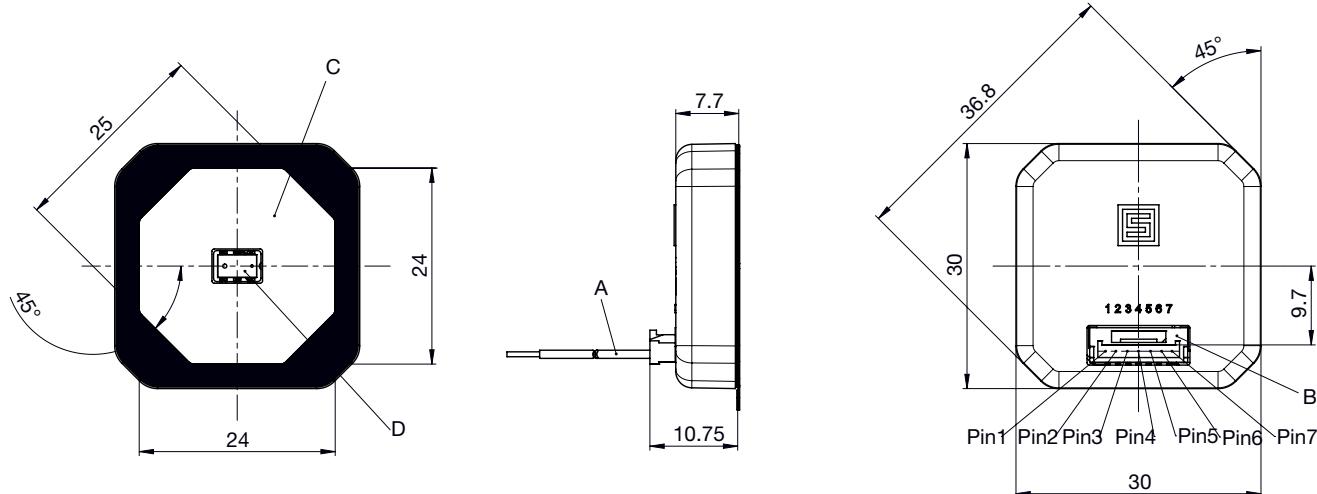
SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Compliances

The product complies with following Guide Lines

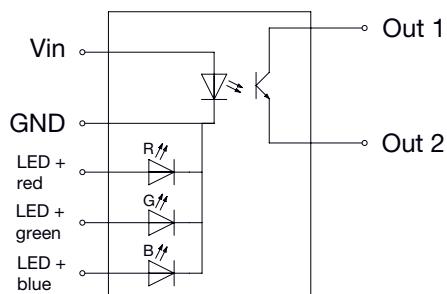
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UKCA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
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]



A: Stranded
 B: Suitable for connector JST GHR-07V-S
 C: Illumination area
 D: Viewing window of the sensor LxW (mm) 6.2x4.2

Diagrams



Depending on the selected supply voltage (5 - 28 VDC) the series resistors for the LEDs have to be selected (max. 20 mA rated current)

Connection assignment		
PIN-number	Wire color	function
1	brown BN	Vin = 5 VDC...28 VDC
2	black BK	GND
3	white WT	Out 1
4	white WT	Out 2
5	red RD	LED red
6	green GN	LED green
7	blue BL	LED blue

Design-In-Kit



Development tool for special settings of THS

Area illumination

Operating Data	Forward Voltage	Nominal LED current
LED red	2.1 V	20 mA
LED green	3.0 V	20 mA
LED blue	3.1 V	20 mA
PWM frequency LED: max. 100Hz		
Power consumption without lighting: < 1mA	(Output contact open)	
Power consumption without lighting: < 6mA	(Output contact closed)	

Order number key

THS	-	3	0	-	M	O	N	O	A	1	0	C	0	-	A	I	R	G	B	0	0	R	C	0	-	P	4	P	1	-	P	-	0	6	G	0	2	0
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15																						

* Please note that only the configuration below are available by default.
Other configurations on request

Dimensions L x B x H [mm]  1
THS = 30 x 30 x 10.78

Housing material  10
Lexan Resin EXL9330 = P4

Switching type  2
Push button = MO

Actuator material  11
PMMA = P1

Switch function  3
Normally open = NO

Mounting  12
Adhesive = P

Rated current  4
100mA = A10

Detection distance  13
6 cm = 06

Terminal switch  5
Connector integrated = C0

Front panel material  14
Float glass = G0

Illumination type  6
Area illumination = AI

Front panel thickness  15
2mm = 20

Illumination color  7
Multicolor = RGB

Supply voltage illumination  8
w/o resistor = 00R

Terminal illumination  9
Connector integrated = C0

Variants

Designation	Rated current	Illumination	Switching Voltage	Config. Code	Order Number
THS	100 mA	Area illumination	42 VAC / 60 VDC	THS-30-MONO10CO-AIRGB00RC0-P4P1-P-066020	3-140-093

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

Packaging unit	10
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Accessories

Description



Cable_to_Metal_Line
Cable to MSS, CHS and THS

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[3-140-093](#)