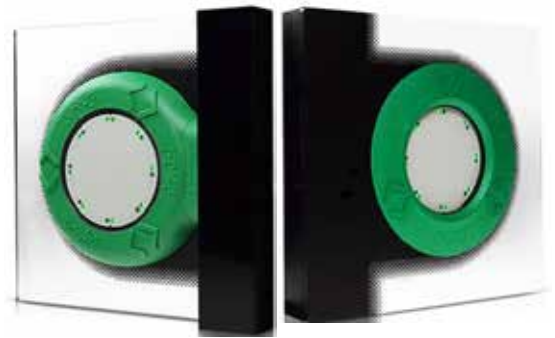


Content

- [Short description / Technical data \(Page 1\)](#)
- [Configuration help \(Page 2\)](#)
- [Additional information / Connection diagram \(Page 3 – 5\)](#)



The capacitive SENSORswitches of the CHT5-2 series switch through single glass and, in contrast to mechanical switches, operate without wear. They are designed for two-sided operation and therefore can be used from the inside and outside of a vehicle or building.

No hole is required in the pane of glass for their installation. Industrial adhesive tape allows the uncomplicated gluing. CHT5 SENSORswitches are suitable as door opening switches for the high frequency continuous service used in the passenger transport and building technology.

The user receives optical feedback via 16 bright LEDs. According to the requirements of TSI-PRM for people with limited mobility, the outer ring can be equipped with Braille and raised pictograms..

Please find below the most important features listed:

- Two-sided operation through single-glass
- Ø 63mm switch surface
- 14mm height inside / 3,2mm height outside
- Profile angle 90° (Option: 84° / 80° / 60°)
- Customization through symbols and colours of the cover ring
- TSI-PRM compliant – Pictograms and braille available
- Optical feedback through LEDs

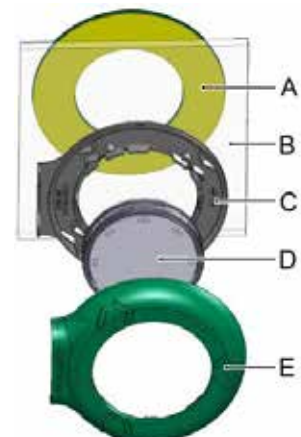
CAPTRON can provide individual advice to enable you to choose the perfect product from the CHT5 series for the required specifications and applications.

Please contact us:

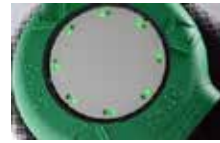
Phone: +49 (0)8142 / 44 88 – 160
 E-Mail: sales@captron.com

Legend:

- (A) = Coloured position ring (outside)
- (B) = Glass pane (single glass; thickness up to max. 6mm)
- (C) = Mounting flange BF95-2
- (D) = Sensor element
- (E) = Coloured cover ring AR5-2X_ (inside)



Technical data at 24 V and 20 °C:			
Supply voltage:	DC 24V (16,8 ... 32V)	Short-circuit protection:	Short-circuit and overload protection
	DC 12V (8,4 ... 15,6V - Option -) DC 110V (77 ... 137,5V - Option -)		max. 3 V at 400 mA (24V)
Load current:	max. 200 mA (at 24V / 12V)	Voltage drop:	max. 3V at 200 mA (12 V) max. 3V at 10 mA (110 V)
	max. 15 mA (at 110V)		Current consumption:
Output:	PNP-NO		max. 20 mA (12V) max. 15 mA (110V)
Output signal:	~ 1 s (depending on the duration of operation)	Operation temperature:	-30 °C ... +70° C
LED 1:	8 green LEDs	Degree of protection (IP):	Frontside IP69K
LED 2:	8 red LEDs	Type of operation:	Capacitive
Reverse polarity protection:	Protection of all lines	Operation force:	No operation force required



Configuration help CHT5-2

Type code 1 – Position ring and cover ring = same colour ¹:

CHT5	-	C1	C2	C3	C5	-	C6	/	-	C7	/	O1	/	O2
		2	6											

Example: CHT5 - 2 6 1 P - H / TG - SR / T6

Type code 2 – Position ring and cover ring = deviating colours ¹:

CHT5	-	C1	C2	C3	C4	C5	-	C6	/	C7	-	O1	/	O2	/
		2	6												

C1 – Mounting

Code	Description
2	Adhesive mounting on single glass pane

C2 - Type of connection ⁴

Code	Description
6	Connector JST (4-pin / standard)
M	Connector JST (5- pin / <i>only together with C5 -> B</i>)

C3 – Colour of the cover ring and the position ring (T1) Colour of the cover ring (Type code 2)

Code	Description	
0	Traffic red (RAL 3020)	
1	Traffic green (RAL 6024)	
2	Sky blue (RAL 5015)	
5	Traffic yellow (RAL 1023)	
6	Traffic black (RAL 9017)	
K	Traffic grey A (RAL 7042)	

C4 - Colour of the position ring (Type Code 2 only)

Code	Description	
0	Traffic red (RAL 3020)	
1	Traffic green (RAL 6024)	
2	Sky blue (RAL 5015)	
5	Traffic yellow (RAL 1023)	
6	Traffic black (RAL 9017)	
K	Traffic grey A (RAL 7042)	

C5 - LED-control ² / Numbers of pins / Supply voltage

Code	Description
P	Semi-Automatic / 4-pin / DC 24V
B	Manual / 5-pin / DC 24V
G	Semi-Automatic / 4-pin / DC 12V
U	Semi-Automatic / 4-pin / DC 110V

C6 - Symbol on switch surface

Code	Description
30	White surface
H	Hand (green on white)



For further symbols please see our [Symbol list \(Link\)](#) ^{*}

^{*} all symbols marked as „Standard“ are already available from 1 pieces / order up without any surcharge.

C7 – LED colours (LED1 – LED2)

Code	Description	
TG-SR	Green (LED1) / Red (LED2) - <i>Standard</i>	
-	-	
-	-	

O1 - Version of the cover ring and position ring ³

Code	Description
-(w/o)	Standard version
T6	TSI-PRM compliant
-	-

O2 - Profile angle of the cover ring

Code	Description
-(w/o)	90° - <i>Standard</i> -
84°	84° angle version
80°	80° angle version
60°	60° angle version

Please note the additional information and explanations on the following pages.
Thank you!

Additional information & explanations on the previously described configuration items:

to 1) / Explanation of the type codes 1 / 2:

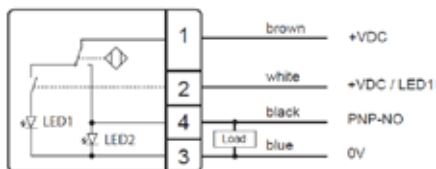
The CHT5-2 series SENSORswitches have a coloured position ring, which is attached to the outside of the glass pane by adhesive mounting, and a coloured cover ring, which is clipped onto the mounting flange on the inside.

These rings can either have the same colour (-> **type code 1**) or different colours (-> **type code 2**; e.g. coloured cover ring = traffic black, coloured position ring = traffic green)

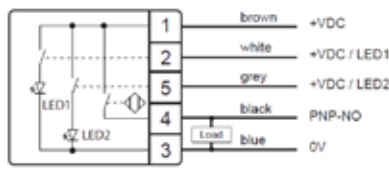
to 2) / LED control:

LED control - Semi-Automatic: Die LED1 (green / operating state) can be controlled separately. When the SENSORswitch is actuated, LED1 goes out and LED2 (red / switching state) lights up.

- Manual: Both LED1 and LED2 can be controlled separately as required. This function is currently only available when the **DC 24V version** is selected!



Connection diagram „P“ / „G“ / „U“
PNP-NO // Semi-Automatic



Connection diagram „B“
PNP-NO // Manual

to 3) / version of the coloured position ring and the coloured cover ring:

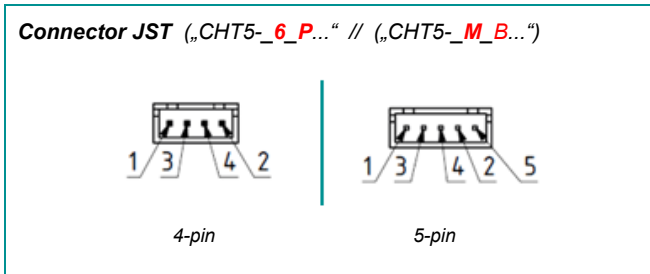
Standard version

All dimensions in mm

TSI-PRM compliant rings (T6)

All dimensions in mm

to ⁴⁾ / Types of connection:



You need support with the configuration?

Our internal sales team will be happy to advise you on this (Tel.: +49 (0)8142 / 44 88 – 160; sales@captron.com)

You need data sheets and/or 3D data?

Please also contact our internal sales department. Thank you.