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The SENSORswitch CHT6 is designed for adhesive mounting on **single glass** and switch by touch. The SENSORswitch CHT6 can be switched one sided through single glass. For installation / application it is not required to have a hole in the glass.

the field of application extends over traffic engineering and building technology up to information services. The SENSORswitch is equipped with an optical feedback. Several million cycles and an extremely long life completes the SENSORswitch.

In accordance with TSI-PRM requirements for persons with reduced mobility, the position colour ring (= outer ring) can be equipped with Braille and raised pictograms.

Please find below the most important features listed:

- Single-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 CHT6 series for the required specifications and applications.

Please contact us:

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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) DC 12V (10,8 ... 14V - Option -) | Voltage drop: | max. 3 V at 400 mA (24V) max. 3V at 200 mA (12 V) |
| Load current: | max. 200 mA (at 24V / 12V) | Current consumption: | max. 30 / 35 mA (24 V) max. 20 mA (12V) |
| Output: | PNP-NO | Operation temperature: | -30 °C ... +70° C |
| Output signal: | ~ 1 s (depending on the duration of operation) | Degree of protection (IP): | Frontside IP69K |
| LED 1: | 8 green LEDs | Type of operation: | Capacitive |
| LED 2: | 8 red LEDs | Operation force: | No operation force required |
| Reverse polarity protection: | Protection of all lines | | |
| Short-circuit protection | Short-circuit and overload protection | | |



Configuration help CHT6-2

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

| | | | | | | | | | | | | | | |
|------|---|-----------|-----------|-----------|-----------|---|-----------|---|---|-----------|---|-----------|---|-----------|
| CHT6 | - | C1 | C2 | C3 | C5 | - | C6 | / | - | C7 | / | O1 | / | O2 |
| | | 2 | 6 | | | | | | | | | | | |

Example: CHT6 - 2 6 5 P - H / TG - SR / T6

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

| | | | | | | | | | | | | | | | |
|------|---|-----------|-----------|-----------|-----------|-----------|---|-----------|---|---|-----------|---|-----------|---|-----------|
| CHT6 | - | 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) |

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 |
| G | Semi-Automatic / 4-pin / DC 12V |
| - | - |
| - | - |

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:

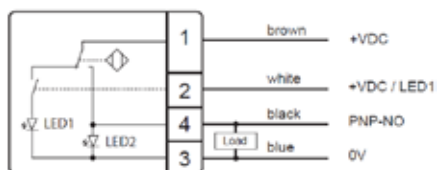
The CHT6-2 series SENSORswitches have a coloured position ring, which is attached to the outside of the glass pane by adhesive mounting, and a coloured cover ring, which is clipped onto the mounting flange on the inside.

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.



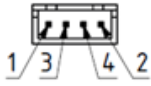
Connection diagram „P“
PNP-NO // Semi-Automatic

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

| | | |
|-------------------------------------|---|-----------------------------|
| Standard version | <p>Position ring (outside)</p> <p>Cover ring (inside)</p> | <i>All dimensions in mm</i> |
| TSI-PRM compliant rings (T6) | <p>Position ring (outside)</p> <p>Cover ring (inside)</p> | <i>All dimensions in mm</i> |

to ⁴⁾ / Types of connection:

Connector JST („CHT61-_6_...“)



4-pin

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.