

## Configuration help for SENSORswitch series CHT3-4

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Different shapes, installation depths and plug-in connections mean that the CHT3 series is suitable for a wide range of uses.

The CHT3-4 series has been developed for mounting = Ø 22.5mm. So this SENSORswitch series can be installed in Siemens or Möller housings, for example. The mounting is done by a knurled nut which is included in the delivery.

The main area of application for the CHT3-4 SENSORswitch series is mechanical engineering and plant building.

The customer can choose from a wide range of available symbols for the switch surface (symbol list: [Link](#)). In addition to the optical feedback by 16 bright LEDs, the SENSORswitches can be ordered with a tactile feedback by vibration.

Please find below the most important features listed:

- Ø 50 mm total diameter
- For 22,5mm mounting holes
- M18x1 knurled nut mounting
- 25mm height
- Customization through symbols
- Optional: Tactile feedback (Vibration)

CAPTRON can provide individual advice to enable you to choose the perfect product from the CHT3 series for the required specifications and applications.

Please contact us:

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 E-Mail: [sales@captron.com](mailto:sales@captron.com)



Technical data at 24 V and 20 °C:			
Supply voltage:	DC 24V DC (16,8 ... 32V)	Short-circuit protection:	Short-circuit and overload protection
Load current:	Max. 400 mA	Voltage drop:	max. 3 V at 400 mA
Output:	PNP-NO ( <i>NPN-NO optional</i> )	Current consumption:	max. 30 mA at 24V DC
Output signal:	approx. 300ms (Option „Dynamic“) Permanent signal (Option „Static“)	Operation temperature:	-30 ... +80°C (Dynamic) 0 ... + 55°C (Static)
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 CHT3-4

### Type code 1 – with output signal Dynamic <sup>1</sup>:

CHT3	-	<b>C1</b> 4	<b>C2</b>	<b>C3</b> 6	<b>C4</b>	<b>O1</b>	-	<b>C5</b>	/	-	<b>C6</b>
Example: CHT3 - 4 5 6 P - H / TG - SR											

### Type code 2 – with output signal Static <sup>1</sup>:

CHT3	-	<b>C1</b> 4	<b>C2</b>	<b>C3</b> 6	<b>C4</b>	<b>O1</b>	-	<b>C5</b>	/	-	<b>C6</b>	/	ST
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#### C1 – Mounting <sup>2</sup>

Code	Description
4	Ø 60mm, M18 thread; for mounting Ø 22.5mm
-	-
-	-
-	-

#### C2 – Type of connection <sup>4</sup>

Code	Description
5	Connector M8
7	Single strands 200mm with ferrules
8	Connector M12
-	-

#### C3 – Colour of housing


Code	Description
6	Traffic black (RAL 9017) 
-	-
-	-
-	-


#### C4 – LED control <sup>3</sup> / Numbers of pins / Output

Code	Description
P	Semi-Automatic / 4-pin / PNP-NO
B	Manual / 5-pin / PNP-NO
N	Semi-Automatic / 4-pin / NPN-NO*
-	-

 \* currently only available with connection type "5 - connector M8"!

#### O1 – Option 1 / Tactile feedback

Code	Description
V	Tactile feedback (vibration) * 
-	-
-	-


 \* only available with connection type „7 – single strands“ (LED control „P“ / „B – Manual“) or „5 – connector M8“ (LED control „P – Semi-Automatic“)

#### C5 – 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.

#### C6 – LED colours (LED1 – LED2)

Code	Description
TG-SR	Green (LED1) / Red (LED2) - Standard 
TG-YW	Green (LED1) / Yellow (LED2) * 
BU-SR	Blue (LED1) / Red (LED2) * 

 \* currently only available with the LED control "Semi-Automatic" as standard!

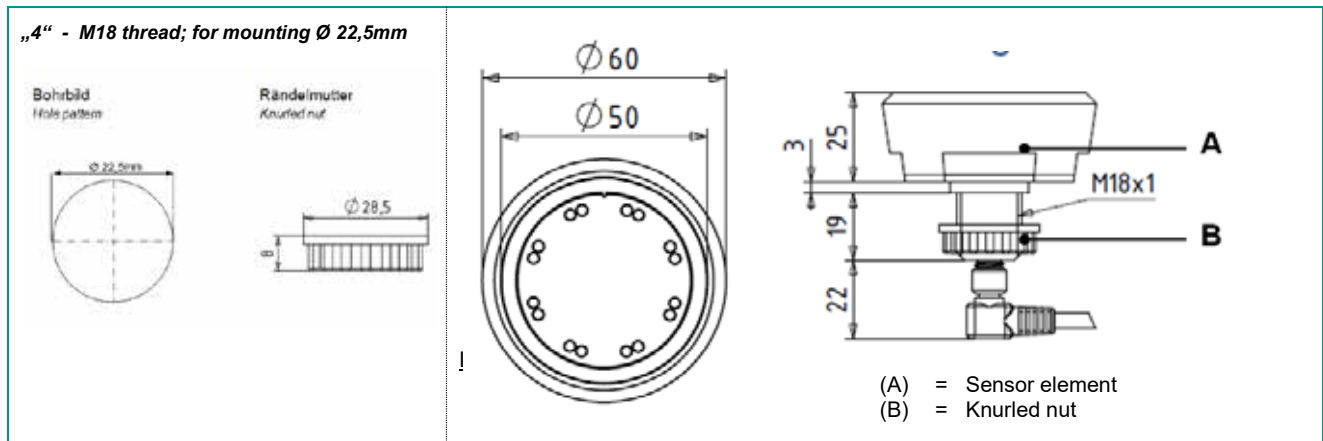
--- Please note the additional information and explanations on the following pages. Thank you! ---

## Additional information & explanations on the previously described configuration items:

### to <sup>1)</sup>:

- Output signal**
- **Dynamic:** The output signal is time-limited to 300ms, independent of the duration of actuation.
  - **Static:** The SENSORswitch switches as long as the switch surface is touched (= permanent signal).

### to <sup>2)</sup> / Mounting & dimensions



### to <sup>3)</sup> / LED control & connection diagrams:

#### LED-control - **Semi-Automatic (P / N):**

LED1 (e.g. green / operating state) can be controlled separately. When the SENSORswitch is actuated, LED1 goes out and LED2 (e.g. red / switching state) lights up

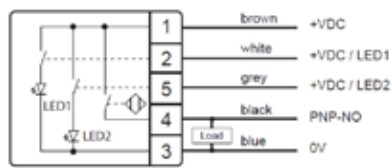
#### - **Manual (B):**

Both LED1 and LED2 can be controlled separately as required.

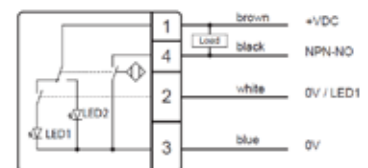
#### Connection diagram:



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



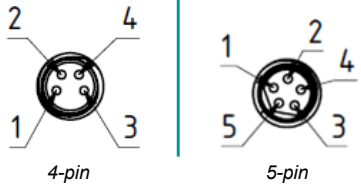
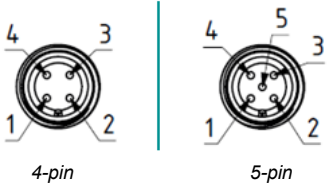
Connection diagram „B“  
PNP-NO // Manual



Connection diagram „N“  
NPN-NO // Semi-Automatic

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**to 4) / Types of connection:**

<p><b>Connector M8</b> („CHT3-<u>5</u>...“)</p>  <p style="text-align: center;">4-pin                      5-pin</p>	<p><b>Connector M12</b> („CHT3-<u>8</u>...“)</p>  <p style="text-align: center;">4-pin                      5-pin</p>
<p><b>Single strands 200mm</b> („CHT3-<u>7</u>...“)</p> <p style="text-align: center;"><i>Single strands 200mm with ferrules</i></p> <p style="text-align: center;"><i>(Wire end ferrules with plastic collar DIN 46228; wire cross-section strands 0.25 mm<sup>2</sup>)</i></p> <p style="text-align: center;">4-pin                      5-pin</p>	

**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](mailto:sales@captron.com))

**You need data sheets and/or 3D data?**

Please also contact our internal sales department. Thank you.