

Configuration help for SENSORswitch series HWT2

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CAPTRON is the first manufacturer worldwide to develop and produce capacitive stop request SENSORswitches with touch function for the public and private transportation. When touching the switch surface, the passenger receives visual feedback by 12 LEDs and optionally also acoustically by signal tone.

The HWT2 stop request SENSORswitches are specially designed for daily continuous use in public transport company and convince through extreme longevity, reliability and robustness. Mechanical wear or regular maintenance are therefore not applicable.

The HWT2 series is suitable both for rod mounting with different diameters (Ø 30 mm, 34/35mm) and for wall mounting. The simple and quick mounting is done by clipping the SENSORswitches into the previously screwed mounting brackets on the rod or wall. Thus, no screws are visible on the housing and vandalism is prevented.

Please find below the most important features listed:

- 16 cm² switch surface
- Option 1: rod mounting (Ø 30mm, 34/35mm)
- Option 2: wall mounting
- Switches to touch, no pressure necessary
- Feedback - optical and acoustic signals by 12 LEDs and beeper (optional)
- Extremely long service life - several 100 million switching cycles
- Individualization through symbols
- Barrier-free - Braille and raised pictograms on the housing or switch surface (optional / TSI-PRM compliant)

CAPTRON can provide individual advice to enable you to choose the perfect product from the HWT2 series for the required specifications and applications.

Please contact us:

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E-Mail: sales@captron.com



Technical data at 24 V and 20 °C:			
Supply voltage:	DC 24V DC (10 ... 32V)	Short-circuit protection:	Short-circuit and overload protection
Load current:	max. 200 mA	Voltage drop:	max. 2 V at 200 mA
Output:	PNP-NO	Current consumption:	max. 15 mA at 24V DC
Minimum period of operation:	approx. 180ms	Operation temperature:	-30 ... +80°C
Output signal:	approx. 400ms (Dynamic ¹)	Degree of protection (IP):	Housing IP40
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		



Configuration help HWT2

Type code – with switching function Dynamic ¹:

HWT2	-	C1	C2 6	C3	C4	O1	-	C5	/	TG	-	C6 SR	/	O2	/	O3
Example: HWT2	-	C	6	5	D	S	-	V15	/	TG	-	SR	/	T5	/	T23

C1 – Mounting of the stop request button HWT2 ²

Code	Description
E	Rod mounting, for Ø 30mm
C	Rod mounting, for Ø 34 / 35mm
W	Wall mounting
-	-

C2 – Type of connection ⁵

Code	Description
6	Connector JST
-	-
-	-
-	-

C3 – Colour of the housing

Code	Description	
0	Traffic red (RAL 3020)	
1	Traffic green (RAL 6024)	
5	Traffic yellow (RAL 1023)	
6	Traffic black (RAL 9017)	
E	Traffic grey B (RAL 7043)	
H	Traffic blue (RAL 5017)	
-	-	

C4 – LED-control ³ / Numbers of pins / Supply voltage

Code	Description
D	Automatic / 3-pin / DC 24V
B	Manual / 3- + 2--pin / DC 24V
-	-
-	-
-	-
-	-
-	-

O1 – Option 1 / Acoustic feedback

Code	Description	
S	Acoustic feedback (Signal tone)	
-	-	
-	-	

C5 – Symbol on switch surface

Code	Description	
V15	„STOP“ (white on red)	
V20	„WHEELCHAIR“ (white on blue)	
		

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) - <i>Standard</i>  

O2 – Option 2 / raised pictogram on housing ⁴

Code	Description
T5	Relief "X" on the housing

O3 – Option 3 / Pictogram / Braille on switch surface ⁴

Code	Description
T22	Relief "<>" on switch surface *
T23	Braille characters "STOP" on switch surface *

 * Option T22 and T23 cannot be combined!

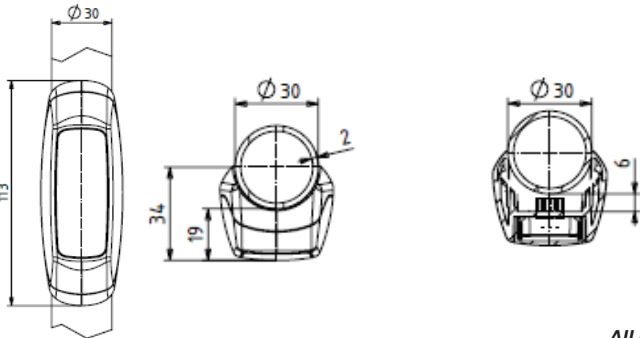
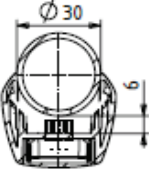
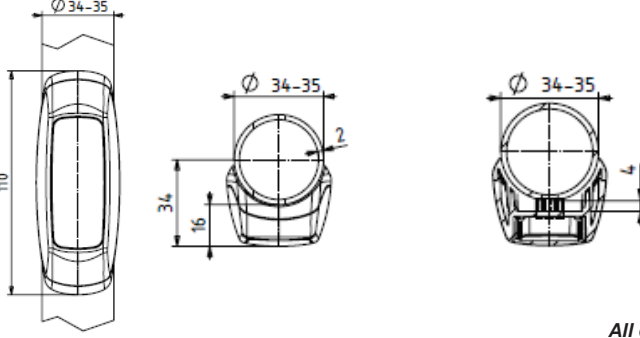
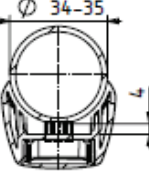
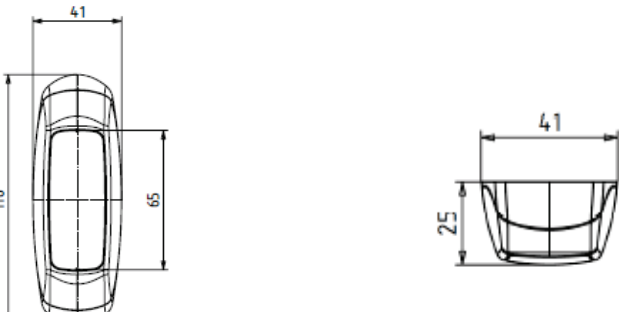
Please note the additional information and
explanations on the following pages.
Thank you!

Additional information & explanations on the previously described configuration items:

to 1) / Switching function:

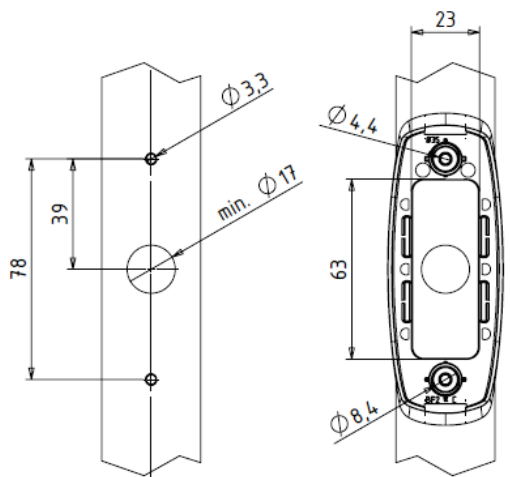
Switching function - **Dynamic:** The output signal is time-limited to 300ms, independent of the duration of actuation.

to 2) / Type of mounting of the stop request SENSORswitch HWT2:

„E“ - Rod mounting for hand rails with Ø 30mm  Example picture	<u>Product dimensions:</u>  <u>Rod distance:</u>  All dimensions in mm
„C“ - Rod mounting for hand rails with Ø 34mm/35mm  Example picture	<u>Product dimensions:</u>  <u>Rod distance:</u>  All dimensions in mm
„W“ - Wall mounting  Example picture	<u>Product dimensions:</u>  All dimensions in mm

--- Please turn over ---

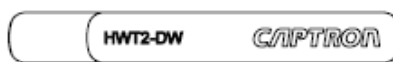
Assembly and disassembly (for example rod assembly with Ø 34mm / 35mm):



Required drillings on
handrail

Mounting of the
mounting flange

HWT2-DW

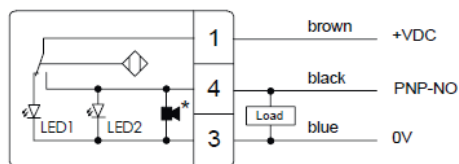


Removal of the HWT2 cup
Special tool „HWT2-DW“

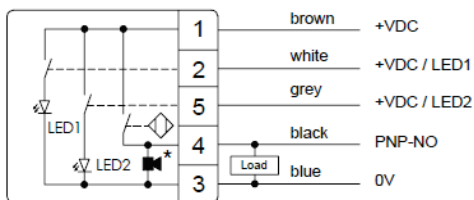
to 3) / LED control & Connection diagrams:

- LED control - Automatic:** LED1 (= green) lights up in operating state.
When the SENSORswitch is touched, LED1 goes out and LED2 (= red) lights up.
- Manual:** Both LED1 and LED2 can be controlled separately as required.

Connection diagrams:



Connection diagram „D“
PNP-NO // Automatic



Connection diagram „B“
PNP-NO // Manual

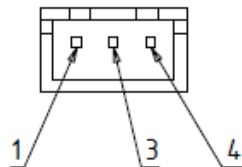
* optionally with
beeper

to 4) / Option 1 & 2 – available tactile pictograms & Braille on housing and switch surface:

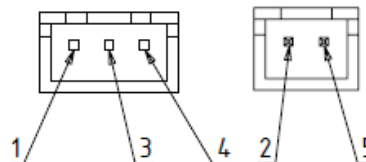
Option „T5“	Option „T22“	Option „T23“
2x tactile pictogram „X“ on housing	1x tactile pictogram „<>“ on switch surface (cannot be combined with option T23!)	1x braille „STOP“ on switch surface (cannot be combined with option T22!)

to 5) / Types of connection:

Connector JST - 3-pin / Automatic („HWT2- _6_D...“)



Connector JST - 3- + 2-pin / Manual („HWT2- _6_B...“)



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.



V10



V11



V12



V13



V15

- Standard -



V16



V17



V18



V19



V20

- Standard -



V21



V22

- Standard -



V23



V24



V25

- Please turn the page / Bitte umblättern -

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Q U A L I T Y M A D E I N B A V A R I A



V26
- Standard -



V27



V28



V29



V30
- Standard -



V31



V32



V33



V34



V35



V36



V37



V38



V39



V41



V42



V45



V46



V47



V50



V51



V52



V53



V54



V55



V56



V57



V58



V59



V60

- Please turn the page / Bitte umblättern -

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Q U A L I T Y M A D E I N B A V A R I A



V61



V62



V63



V64



V65



V66



V70



V71



V72



V73



V74



V75



V76



V77



V78