СЛРТКОП

CHT4

Original Operating Instructions

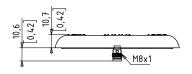


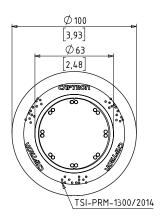
CHT4-2 / CHT4-B

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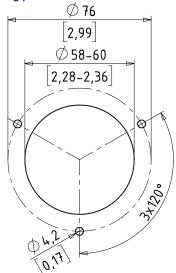
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Drilling pattern CHT4



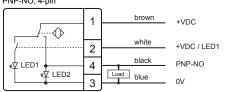
Technical specifications			
Operating voltage	=== 24 V (16.8 to 32 V)		
Load current	Max. 400 mA		
Output pulse	approx. 300 ms		
Reverse polarity protection	Protection of all cables/lines		
Short circuit protection	Protected against short circuit and overload		
Voltage drop	Max. 3 V at 400 mA		
Power consumption at 24 V with signal tone with vibration with signal tone and vibration	max. 30 mA max. 70 mA max. 130 mA max. 200 mA		
Operating temperature dynamic-static	-30°C (-22 °F) to +80°C (176°F)		
Degree of protection IP	Front IP69K		
Type of actuation	Capacitive		
Actuation force	No actuation force required		
max. altitude	2000 m above sea level with "CSA listing"		

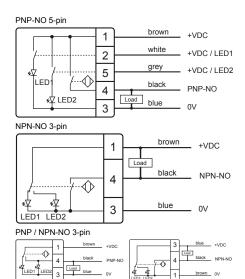
Max. 95%, non-condensing

Connection plan



Relative air humidity

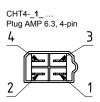




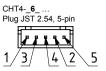
Connection options

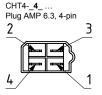












Strands

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200 mm single strands with wire end ferrules Wire end ferrules with plastic collars DIN 46228 Wire cross-section strands 0.25 mm²

This manual has been written for technicians/installers and operators and should be kept for future reference. Read these operating instructions carefully and make sure that you have fully understood the contents before installing or working with the CHT4.



Metric and imperial measurements are used in drawings. Imperial measurements are marked with [].

Safety

General safety

All work on electrical systems or operating equipment may only be carried out by a specially qualified electrician according to the applicable electrotechnical regulations.

The safety of the system in which the SENSORswitch is integrated is the responsibility of the operator.

Notes and symbols used

Warning notes in relation to personal injury / material damage are formulated according to the "SAFE" principle. This means they contain information on the type and source of the hazard, potential consequences as well as how to avoid and avert danger. The following hazard classifications apply in the safety notes:





Danger designates a hazardous situation, which, if ignored, will lead to death or serious injury. The symbol next to the warning indicates the type and source of the danger.





Warning designates a hazardous situation, which, if ignored, may lead to death or serious injury. The symbol next to the warning indicates the type and source of the danger.





Caution designates a hazardous situation, which, if ignored, may lead to injury. The symbol next to the warning indicates the type and source of the danger.

NOTICE

Notice designates a situation, which may cause material damages and impair the product's function if attention is not paid.

ΤIΡ

Tip provides additional useful information about the handling of the product.

Symbol	Meaning
•	Avoiding and adverting danger in the warning note
>	Instructions for action All instructions to be followed within a procedure are always listed in chronological order.
•	List





Improper work on electrical systems! Electric shock can result in death or lifethreatening injuries.

- Before working on electrical systems, disconnect them from their voltage supply and secure them against being switched on again.
- Work on electrical installations should be carried out only by qualified personnel in compliance with local and national electrical regulations and specifications.

Personnel qualifications

A qualified electrician is a person with suitable technical training, expertise and experience as well as knowledge of relevant standards, who can evaluate the work assigned to them correspondingly and recognize potential risks.

Intended use

The SENSORswitch is intended for use in accordance with the items listed here, the values from the "Technical specifications" chapter and the product description.

- Only connect the product to a limited energy source as per IEC 61010 or an NEC class 2 power supply unit.
- Source current < 4 A at maximum operating voltage.

Reasonably foreseeable misuse

Any use other than as specified in the section Intended use or extending beyond this is deemed to be improper.

The SENSORswitch is not suitable for:

- use in potentially explosive atmospheres.
- use as a safety component as per directive 2006/42/EC.

General description

The supplied SENSORswitch can have options that differ from those shown in this manual. This does not affect the function. The SENSORswitch is equipped with different color LEDs to indicate operating conditions. The LEDs are actuated differently depending on the pin configuration.

Α	Colored cover ring AR4-2X_
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- B Mounting flange and SENSORswitch
- C Mounting holes
- D Groove for disassembly



Assembly



WARNING



WARNING

Improper work on electrical systems! Electric shock can result in death or lifethreatening injuries.

- Before working on electrical systems, disconnect them from their voltage supply and secure them against being switched on again.
- Work on electrical installations should be carried out only by qualified personnel in compliance with local and national electrical regulations and specifications.

Requirements: Mounting surface is level and clean.

- Disconnect the system from its voltage supply and secure it against being switched on again.
- ► Set the desired position of the SENSORswitch and provide a center hole of minimum Ø 58 mm to maximum Ø 60 mm.

TII

Without an acoustic signal transmitter, a hole with a diameter of 27 mm is sufficient.

- ▶ Position the SENSORswitch (B), lining up the center and vertical axis, and mark the holes (C).
- Select the diameter of the holes according to the recommended screw type and start drilling.
- ► Connect the SENSORswitch (B) electrically according to the connection plan.
- ► Install the SENSORswitch (B) with the recommended screws. The screw head must not deform the mounting flange (B).
- Place cover ring (A) with groove (D) downward and press close to the button surface. The cover ring must be flush with the entire button surface.



NOTICE

Mineral grease and oils can attack the plastic of the button!

Do not use grease or oils to apply the cover ring (A).

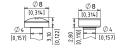


Recommended screw types

- DIN EN ISO 1207 M4
- DIN EN ISO 7045 M4
- DIN EN ISO 1481 Ø3.9 mm
- DIN EN ISO 7049 Ø3.9 mm

Maximum dimensions of the screws

The drawing shows the maximum dimensions of the screws.



Maintenance Maintenance operations

Carry out the following maintenance operations at the specified intervals

Maintenance operation	as needed	annually
Clean the button surface	Х	
Check cables for intactness and firm fit		Х
Check screw connections for tightness		Х

NOTICE

Solvents contained in cleaning agents can attack the plastic of the button!

 Clean the surface of the button with a neutral cleaning agent or a damp microfiber cloth.

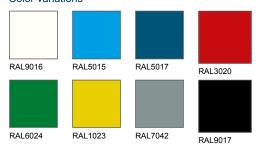
Disassembly

- Disconnect the system from its voltage supply and secure it against being switched on again.
- Insert the flat head screwdriver into the groove (D) on the cover ring (A) and remove the cover ring with the screwdriver via lever action.
- Loosen the screw connections and disconnect the electrical connection

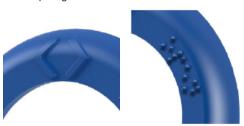
Disposal

Different types of electrical and electronic components must be recycled according to their type. All applicable statutory, state and local laws and regulations must be complied with.

OptionsColor variations



Raised pictograms and Braille characters



Scan QR code for more information or visit our website cht4.captron.de



Manual updates

CAPTRON reserves the right to make changes to the contents of this manual as needed. The most current version can be found on our website, www.captron.com.

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CHT4 1.3

Product description / Product

description