

CANEO

Original operating instructions



seriesSR

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Foreword

These operating instructions are intended 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 SENSORswitches.

Safety

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

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

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

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.

TIP

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

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.

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

seriesSR was developed for use as a stop request button in local and long-distance public transport. It can be mounted on support bars of different diameters or on even surfaces. seriesSR is

intended for use in accordance with the items listed here, the values from the “Technical specifications” chapter, and the values from the product description.

- Connect only to a SELV or PELV system.
- Max. permissible power supply < 100 W

Reasonably foreseeable misuse

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

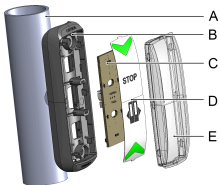
The SENSORswitch is not suitable for:

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

General description of seriesSR

The supplied stop request button can have options that differ from those shown in this manual. This does not affect the function.

A	Rod mounting
B	Mounting flange
C	Circuit board with connection
D	Symbol film (placed in cup)
E	Cup



Assembly



WARNING

Improper work on electrical systems!

Electric shock can result in death or life-threatening 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.



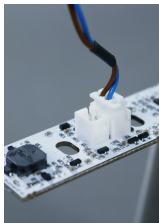
TIP

For optimal operation, connect the SENSORswitch to a voltage supply that has an ohmic path or capacitive path to the body.

Requirements: Mounting surface is clean.

- ▶ Disconnect the system from its voltage supply and secure it against being switched on again.
- ▶ Select the desired position of the SENSORswitch and "[Drilling pattern](#)", [page 11](#) mark.
- ▶ Select the diameter of the holes according to the recommended screw type and start drilling.
- ▶ Check the connection cable and plug for damage and have replaced if necessary.
- ▶ Install the mounting flange with the recommended screws. The base of the head of the screws must not deform during mounting.

- ▶ Connect the electrics on the circuit board.



- ▶ Carefully press the circuit board onto the mounting flange until the circuit board clicks into place.



NOTICE

The cup cannot be removed without destroying it!

- ▶ Before mounting the cup, pay attention to the orientation of the symbol and the braille.
- ▶ The braille must be facing upward.

- ▶ Align the symbol and carefully press the cup onto the mounting flange until the cup clicks into place.

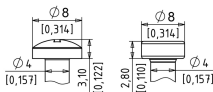


Recommended screw types

- DIN EN ISO 7045 M4
- DIN EN ISO 7049 Ø3.9 mm
- DIN 7050 C M4

Maximum dimensions of the screws

The drawing shows the maximum dimensions of the screws.



Configuring the five-pin version

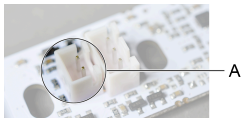
seriesSR is configured as a three-pin version. The customer can activate the five-pin version themselves.

NOTICE

seriesSR cannot be switched from the five-pin version back to the three-pin version!

- ▶ Before configuring seriesSR to the five-pin version, make sure that the five-pin version is needed.

- ▶ Apply operating voltage to pin 2 or pin 5 (A) for at least two seconds.
- ▶ Remove the operating voltage from pin 2 or pin 5.
- ✓ The circuit board is configured as a five-pin version.



Maintenance

With the exception of cleaning, seriesSR is maintenance-free. Clean seriesSR with a damp microfiber cloth as needed.

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

NOTICE


seriesSR cannot be removed without destroying it!

- ▶ The cup and mounting flange cannot be reused following disassembly.
- ▶ Disconnect the system from its voltage supply and secure it against being switched on again.
- ▶ Insert the flat head screwdriver between the cup and the mounting flange and remove the cup 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.

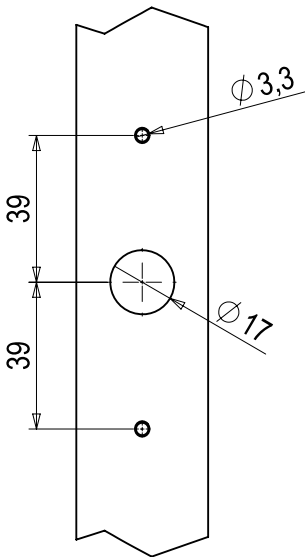
Technical specifications

Operating voltage	 24 V (10 to 32 V)
Load current	Max. 100 mA
Output	PNP-NO
Output pulse	Approx. 400 ms
LED1	White (different colors are possible with symbol film)
LED2	Red
Reverse polarity protection	Protection of all cables/lines
Short circuit protection	Protected against short circuit and overload
Voltage drop	Max. 2.5 V at 100 mA
Power consumption at 24 V with signal tone	Max. 30 mA Max. 150 mA
Operating temperature	-30°C (-22°F) to +80°C (176°F)
Storage temperature	-55°C (-67°F) to +95°C (203°F)
Degree of protection IP	IP40
Impact resistance IK	IK08
Type of actuation	Capacitive
Actuation force	No actuation force required
Relative air humidity	Max. 93%, non-condensing

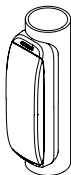
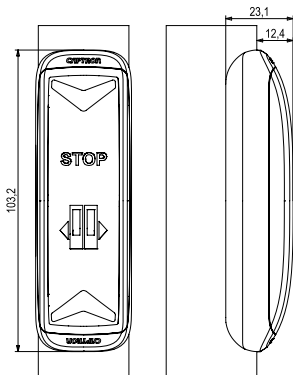
Dimensional drawings

Drilling pattern

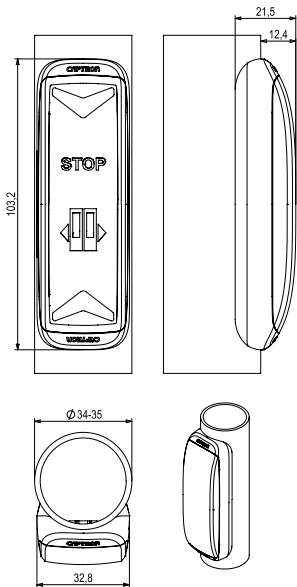
The hole diameter is specified for a M4 screw as an example. For a self-tapping screw, the installer must select the appropriate diameter.



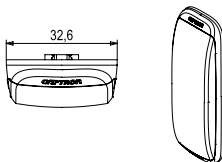
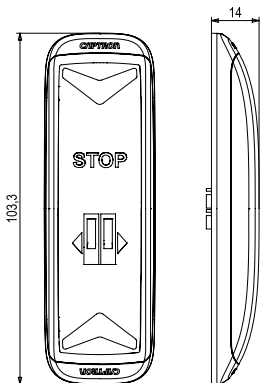
Dimensional drawing bar diameter 30 - 32 mm



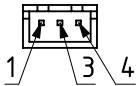
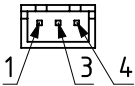
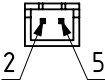
Dimensional drawing bar diameter 34 - 35 mm



Dimensional drawing wall mounting

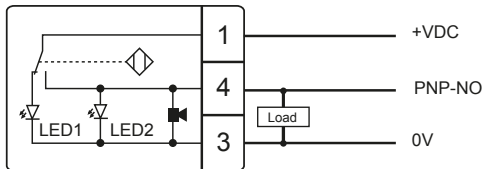


Connection options

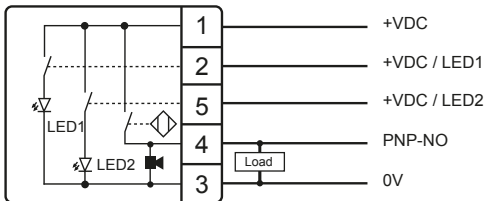
3-pin version	5-pin version
<p>Plug JST, 3-pin</p> 	<p>Plug JST, 3-pin</p> 
	<p>Plug JST, 2-pin</p> 

Connection plan

3-pin



5-pin



Customer can configure themselves see Chapter , "Configuring the five-pin version".

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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