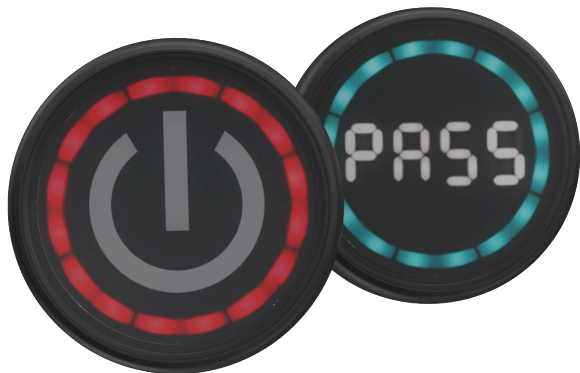


CANEO

Original operating instructions



series40 Puck
series40 Puck display

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1 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.

TIP

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

2 Safety

2.1 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.

2.2 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

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 |



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.

2.3 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.

2.4 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.

2.5 Reasonably foreseeable misuse

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

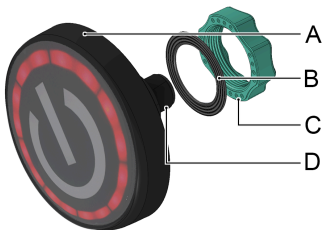
The SENSORswitch is not suitable for:

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

3 General description

The supplied SENSORswitch can have options that differ from those shown in this manual. This does not affect the function. series40 was designed for industrial use as a control unit and communication unit for indoor applications. The series40 SENSORswitch is available with a four-digit 7-segment display or a symbol.

| | |
|---|--------------------|
| A | SENSORswitch |
| B | Flat seal (fitted) |
| C | Lock nut |
| D | Connection M12 |



4 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.

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 drill the hole according to the drilling pattern.
- ▶ Insert the SENSORswitch (A) into the prepared hole and screw the lock nut (C) on.
- ▶ Position the SENSORswitch (A) and tighten the lock nuts with max. 1.5 Nm.
- ▶ Connect the SENSORswitch (A) electrically to terminal (B) according to the connection plan.

5 Operation

series40 is operated by touching the button surface.

TIP

For information on configuring the SENSORswitch, see our website [series4x](#) or scan the QR code.



6 Maintenance

6.1 Maintenance operations

Carry out the following maintenance operations at the specified intervals.

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

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.

7 series40 disassembly

- ▶ Disconnect the system from its voltage supply and secure it against being switched on again.
- ▶ Disconnect the electrical connection and remove the lock nuts.

8 Disposal

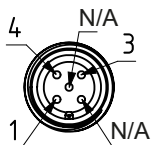
Different types of electrical and electronic components must be recycled according to their type. All applicable statutory, state and local laws and regulations must be complied with.

9 Technical specifications

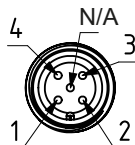
| series4x | |
|-----------------------------|---|
| Operating voltage | — — — DC 12 - 24 V (8.4 to 31.2 V) |
| Load current | max. 200 mA |
| Reverse polarity protection | Protection of all cables/lines |
| Short circuit protection | Protected against short circuit and overload |
| Voltage drop | Max. 2.5 V at 200 mA load current |
| Power consumption at 24 V | Max. 90 mA |
| Operating temperature | -25°C (-13°F) to 50°C (122°F) |
| Degree of protection IP | Front IP69K Maximum unevenness in mounting surface < 0.2 mm |
| Degree of protection IK | IK08 |
| Communication interface | IO-Link specification V1.1 |
| Measuring principle | Capacitive |
| Type of actuation | Touch |
| Actuation force | No actuation force required |
| max. altitude | 3000 m above standard zero |
| Relative air humidity | Max. 95%, non-condensing |

9.1 Connection options

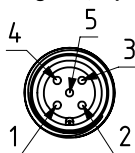
Plug M12, 3-pin



Plug M12, 4-pin

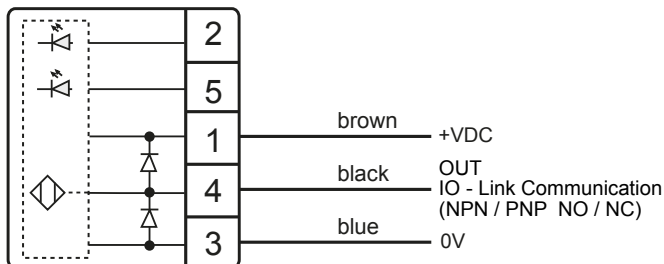


Plug M12, 5-pin



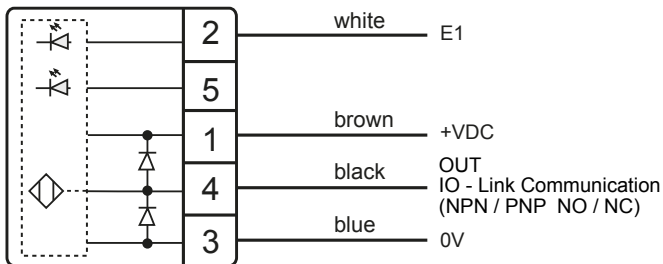
9.2 Connection plan

3-pin



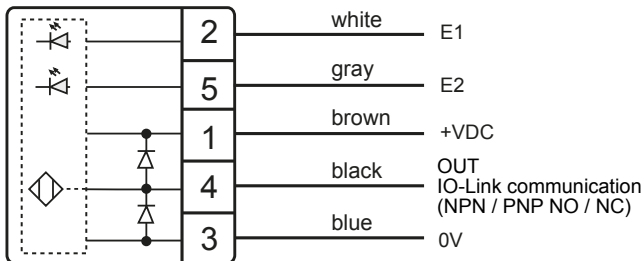
The product description will indicate the configuration.

4-pin



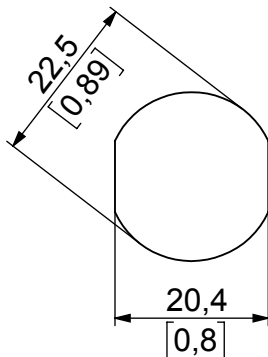
The product description will indicate the configuration.

5-pin



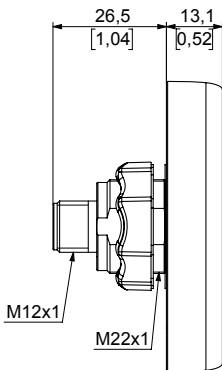
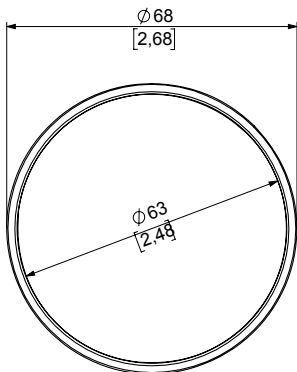
The product description will indicate the configuration.

9.3 Drilling pattern



The SENSORswitch is secured against rotation by the illustrated hole. Metric and imperial measurements are used in drawings. Imperial measurements are marked with [].

9.4 Dimensional drawing



10 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 .

11 Imprint

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CANEO series40 Puck 1.0

Artikelbeschreibung / Product description

