

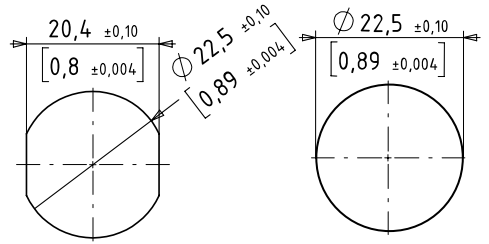


series10 Stainless Steel IO-Link

Technical specifications

series10	
Operating voltage	DC 24 V (8.4 to 32 V)
Load current	max. 200 mA
Output	Adjustable PNP / NPN; NO / NC
Length of output pulse	Adjustable
Reverse polarity protection	Protection of all cables/lines
Short circuit protection	Protected against short circuit and overload
Voltage drop	Max. 5 V at 200 mA load current
Power consumption at 24 V	Max. 40 mA
Operating temperature	-30°C (-22°F) to 65°C (149°F)
Degree of protection IP	Front IP69K Maximum unevenness in mounting surface < 0.1 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	2000 m above sea level with "CSA" listing
Relative air humidity	Max. 95%, non-condensing

Drilling pattern

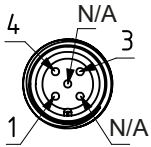


Assembly with lock nut
The SENSORswitch is secured against rotation by the hole.

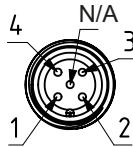
Assembly with lock nut and snap-in assembly

Connection options

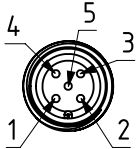
Plug M12, 3-pin



Plug M12, 4-pin

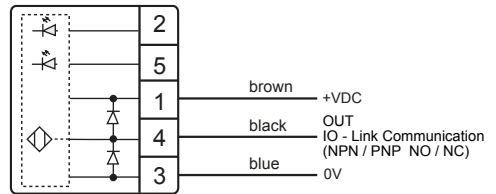


Plug M12, 5-pin



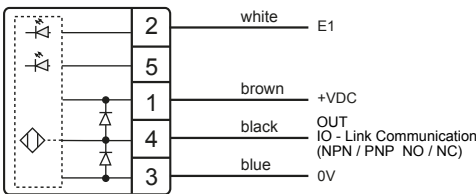
Connection plan

3-pin



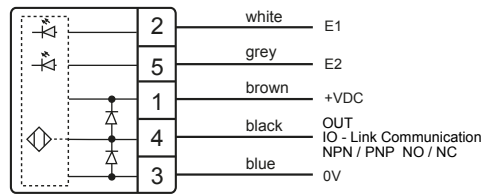
The product description will indicate the configuration.

4-pin



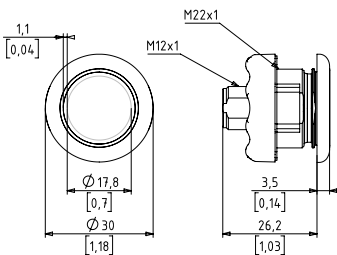
The product description will indicate the configuration.

5-pin



The product description will indicate the configuration.

Dimensional drawing



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.



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.
- ▶ Wear appropriate personal protective equipment (PPE).

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:

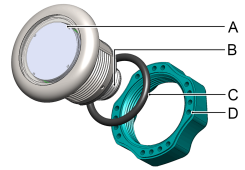
- use in potentially explosive atmospheres.
- use as a safety component as per directive 2006/42/EC

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.

A	SENSORswitch
B	Connection M12
C	O-ring (only required for snap-in assembly)
D	Lock nut



Assembly

series10 assembly with lock nut

TIP

Do not use the enclosed O-ring for assembly with lock nuts. Only use the O-ring for snap-in assembly.

Requirements:

- Mounting surface is level and clean (maximum unevenness in mounting surface 0.1 mm).
- The panel is between 1.0 mm and 9.5 mm thick.
- ▶ 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.

series10 snap-in assembly

Requirements:

- Mounting surface is level and clean (maximum unevenness in mounting surface 0.1 mm).
- The panel is between 1.5 mm and 3.0 mm thick.
- ▶ 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.
- ▶ Slide the enclosed O-ring onto the SENSORswitch.
- ▶ Connect SENSORswitch (A) electrically to terminal (B) according to the connection plan.
- ▶ Insert SENSORswitch (A) into the prepared hole and align.

Configure CANEO series10 with IO-Link

TIP

For information on configuring the SENSORswitch, see our website series10.captron.com or scan the QR code.



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.

Maintenance

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

Disassembly

series10 disassembly with lock nut

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

series10 snap-in disassembly

- ▶ Disconnect the system from its voltage supply and secure it against being switched on again.
- ▶ Use a flat head screwdriver to remove the SENSORswitch from the hole and disconnect the electrical connection.

Disposal

Electrical and electronic components of various types must be recycled according to their type.

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