







## 5. Unpacking of sensor

### Damages

In case of damages during transport, report ASAP to the transporting company and Cerlic. Returning of goods can only be done after agreement with Cerlic.

### Packing

When returning a sensor it is recommended to use the original packing if possible. If not, make sure that packing is giving full protection to the goods.

### Contents of the shipment

Verify that the contents of the shipment match with the order and delivery note.

### Mounting option

- Cable support hook

### Part No

21203369

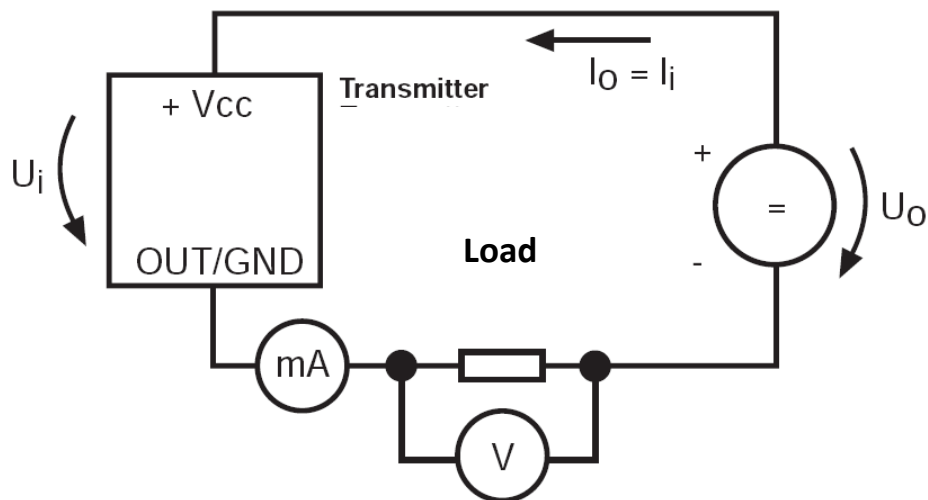
## 6. Installation

### Electrical installation

When connecting the black and white wires from the CKN to the control system, black wire connects to (+) positive and white (-) connects to negative. See connection diagram below. If the wires are connected wrong, this can effect the measuring result or even damage the electronics.

### Connection diagram

#### 2-wire connection, 4 – 20 mA



<b>Signals</b>	<b>4 – 20 mA</b>	<b>RS485</b>
Voltages	$\leq 30 \text{ V}$	$\leq 30 \text{ V}$
Amp	$\leq 100 \text{ mA}$	$\leq 88,5 \text{ mA}$
Consumption	$\leq 0,64 \text{ W}$	$\leq 0,583 \text{ W}$
Capacitance	0 nF	350 nF
Inductance	0 mH	0 mH

## **Submersible level and flow meter, CKN**

The CKN must be mounted in a safe and secure way. The special designed cable hook secures the installation and makes the inspections and cleaning simple. It is very important that the sensor is located vertical in the same position/level after inspection.

### **Installations guide**

- Mount the CKN so it is stable and safe but easy to remove for inspections. The mounting option, cable support hook art nr 212033369, is recommended.
- If the sensor is installed close to a blower or a rake it is recommended to mount the CKN in a protective tube, see appendix 2
- It is recommended to make a mark on the cable with a tape. With a known reference it can easily be verified that the CKN is remounted in the same location after inspection.
- Install the CKN and wait 30 minutes before connecting the power.

## **7. Cleaning**

The CKN is resistant to biochemical deposits and is ideal for measuring levels in pump pits. To ensure the accuracy and a long life of the CKN, it is recommended that inspections of the sensor and membrane are performed 1- 2 times per year. Avoid using sharp objects when cleaning the membrane. Soft cloth or a soft plastic brush is recommended.

## **8. Calibration**

The CKN sensor is calibrated at the factory according to the range specified on the order. Standard range is 0 - 10meter.

## **9. Scaling**

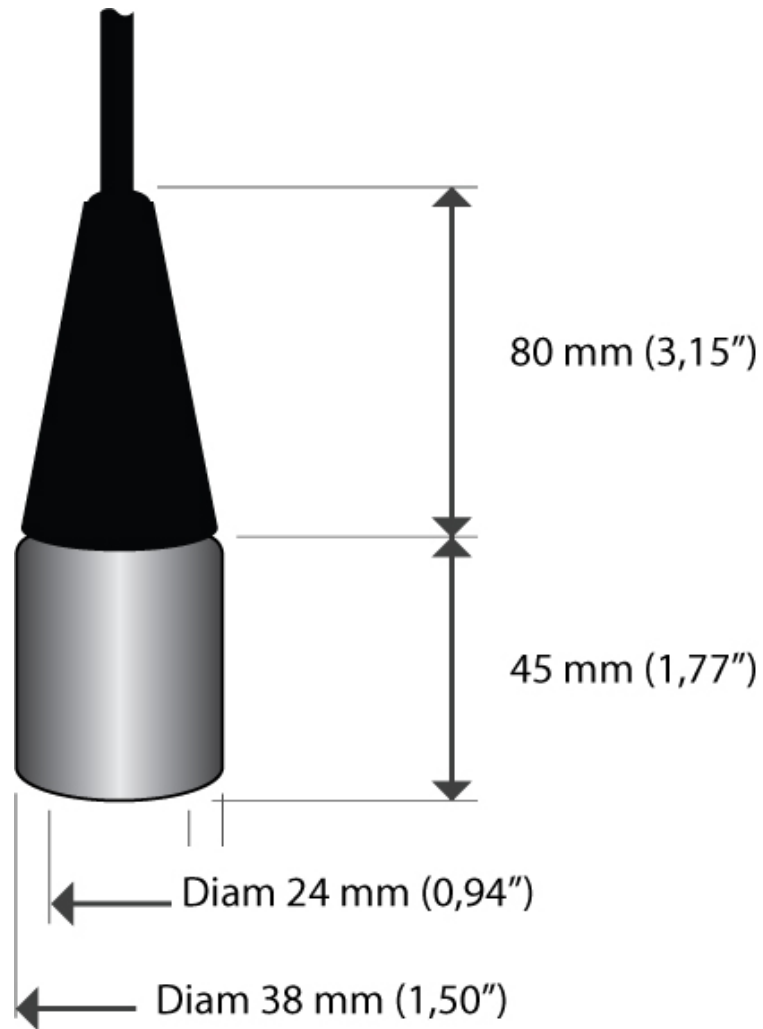
The CKN is analogue and scales the range from 0 = 4mA and Max range = 20mA. Make sure the proper scale is used for correct results.



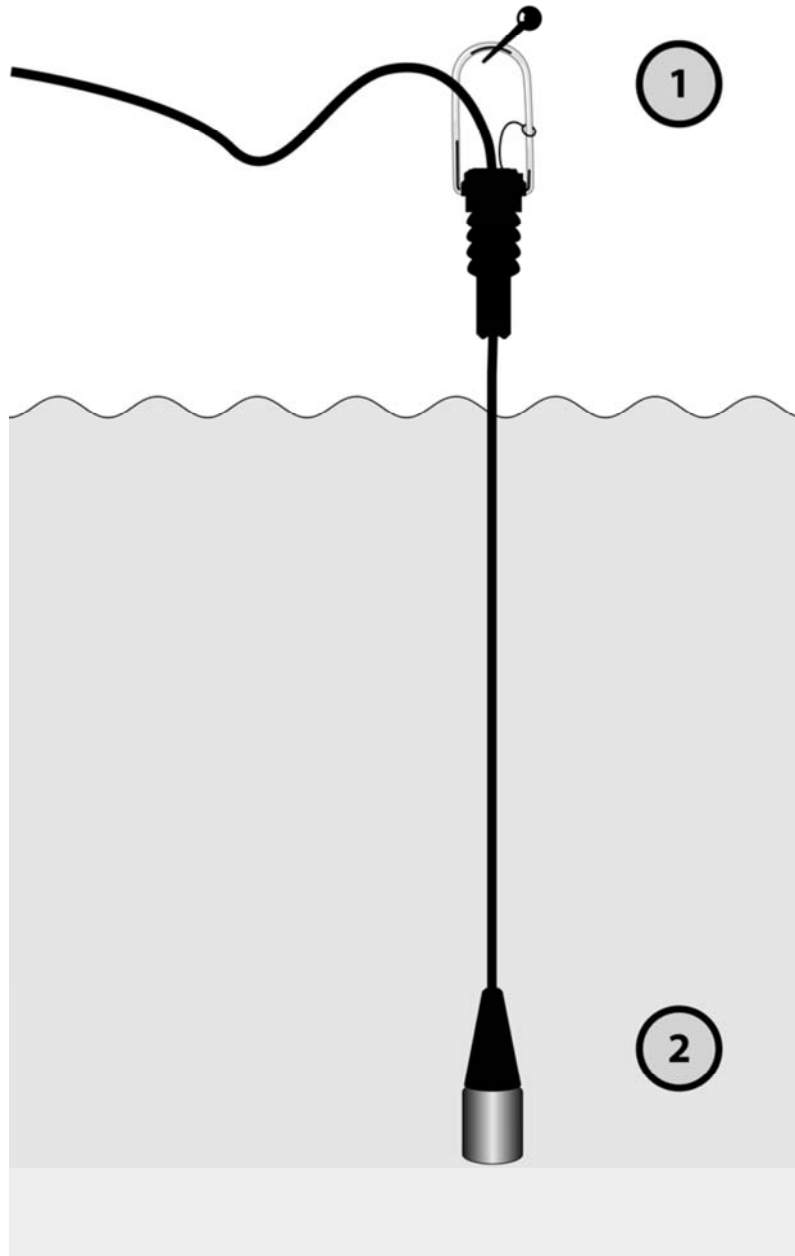
## 10. Technical Data: CKN

<b>CKN-10</b>		P/N 11305812
<b>CKN-20</b>		P/N 13305813
<b>Material</b>		- Housing; Stainless steel SIS2343 - Membrane; ceramic with gold plating
<b>Size</b>		See chapter 11.
<b>Weight</b>	CKN-10	1, 2 kg (3lb) included 12 m (40feet) Hytrel® cable
	CKN-20	2 kg (4lb) included 22 m (73feet) Hytrel® cable
<b>Protection class</b>		IP 68 Dust and water proof
<b>Temperature range</b>		0 - 80 °C (32 - 176°F) compensated range 10 - 50 °C (50 - 122°F)
<b>Voltage supply</b>		8-28 VDC
<b>Output signal</b>		4-20mA
<b>Range</b>		0 - 5/10/20 meter (0 - 17/40/73 feet) Standard 0 - 10 meter (0 - 40 feet).
<b>Cable shield material</b>		Hytrel®
<b>Linearity</b>		±0,1 % FS (typical) ±0,2 % FS (max)
<b>Customization</b>		Special measuring range
<b>Option</b>		Cable support hook (P/N 21203369)

### 11. Dimensions



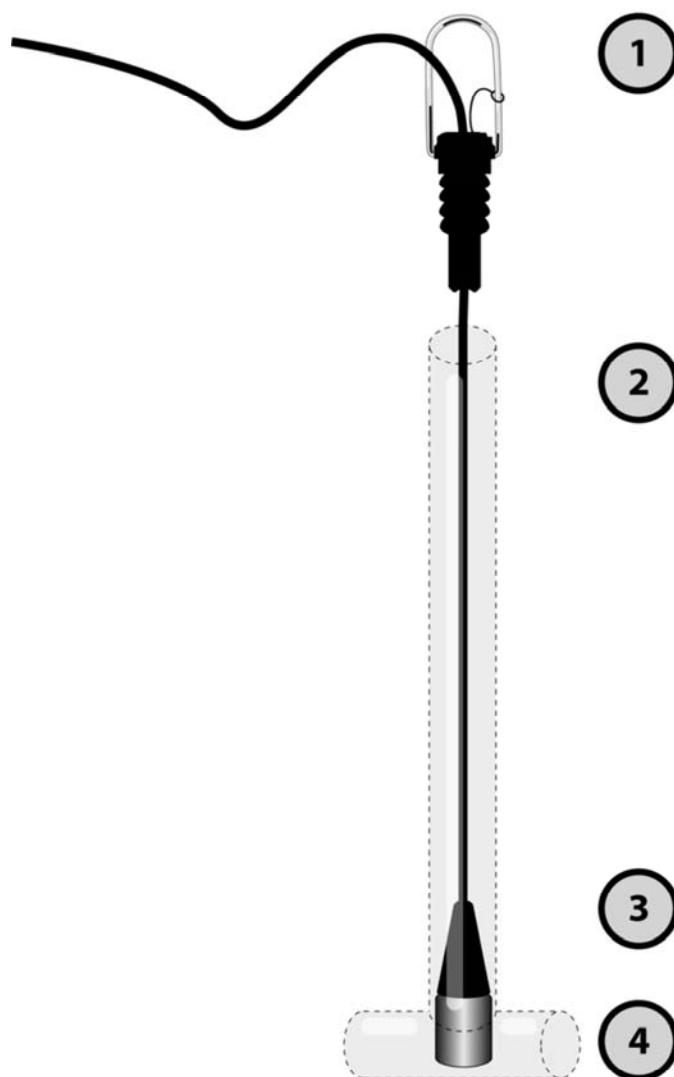
## 12. Mounting CKN using cable support hook



1. Cable support hook (Part No: 21203369)
2. CKN sensor



### 13. Mounting CKN in a protective tube



1. Cable support hook (Part No: 21203369)
2. Basin
3. Protective tube
4. CKN sensor

## 14. Support information

Please have the following information ready when contacting Cerlic.

**Company** \_\_\_\_\_

**Name** \_\_\_\_\_

**Phone** \_\_\_\_\_

**E-mail** \_\_\_\_\_

**Sensor type** \_\_\_\_\_

**Position/Tag** \_\_\_\_\_

Information below can be found on the sensor label

**SerialNo** \_\_\_\_\_

Settings that can be useful for support

**Max** \_\_\_\_\_

**Min** \_\_\_\_\_

**High alarm** \_\_\_\_\_

**Low alarm** \_\_\_\_\_

**Alarm Rely** \_\_\_\_\_