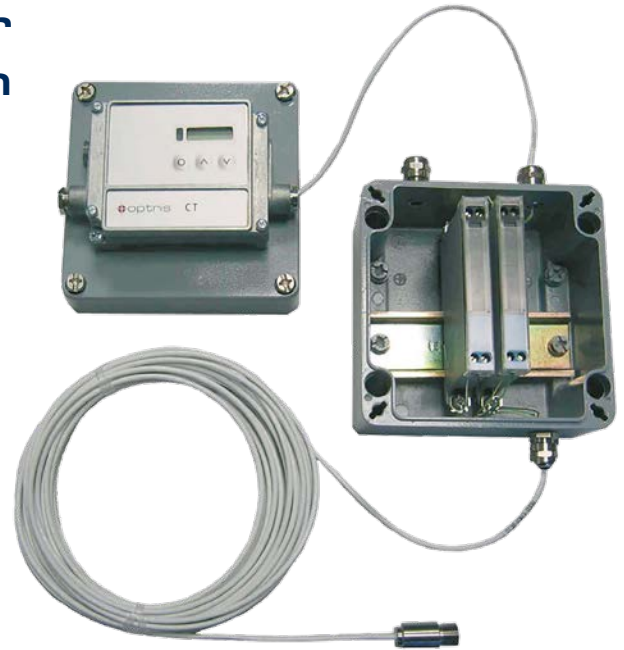


Manufacturer's declaration for the CTex measurement system

The CTex LT sensing head can be used as a passive element in hazardous areas. The operator has to verify the classification of the optris CT sensing heads, according to **EN 60079-0/ EN 60079-11** (category of simple electrical devices) on his own.

To verify that the CT sensing head is a simple electrical device according to EN 60079-11 item 5.7 we hereby confirm the following technical data:



Inductance (available for the sensor cable only)

Inductance of the loops min. 0.55 mH/ km; max 0.56 mH/ km

In relation to a cable length of 15 m:

Inductance of the loops min. $0.825 \cdot 10^{-3}$ mH; max $0.84 \cdot 10^{-3}$ mH

Capacitance

Capacitance of the sensor cable:

Capacitance lead/ lead min. 16.5 nF/ km; max. 17.9 nF/ km

Capacitance lead/ rest min. 101.0 nF/ km; max. 103.4 nF/ km

In relation to a cable length of 15 m:

Capacitance lead/ lead min. 0.2475 nF; max. 0.2685 nF

Capacitance lead/ rest min. 1.515 nF; max. 1.551 nF

Capacitance in the sensing head:

C1 = Ceramic SMD Capacitor 6.8 nF +/- 20 %

C2 = Ceramic SMD Capacitor 6.8 nF +/- 20 %

Technical Data

Connection diagram

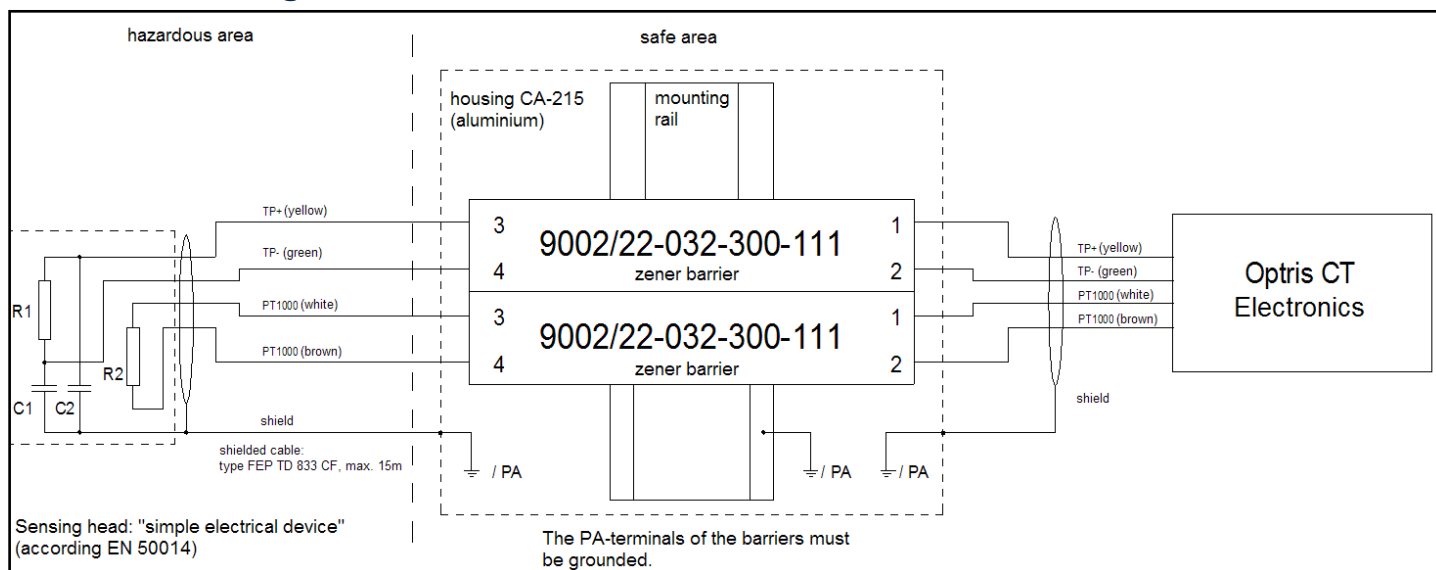


Figure 1: Connection diagram

Specifications



For further information of the CText sensing head in relation to the appropriate components contact our service department.

Change of the head calibration code

Due to the double zener barriers the changed resistance of the head cable has to be considered.

CTex

The necessary change of the head code of the supplied CT sensor will be made at Optris before delivery.

CTex-Kit

Please change the head calibration code of your CT sensor as follows:

Change the **1. sign** of the **3. block** from **0** to **1** (old sensing head)

Change the **1. sign** of the **3. block** from **8** to **9** (new sensing head)

Example new sensing head: EKJ0 – 0OUD – **8**A1B ➔ change to EKJ0 – 0OUD – **9**A1B

The head calibration code on the label of the CText sensor cable shows the original calibration code without this change!

You will find the description how to change the head code in the CT operators manual.

