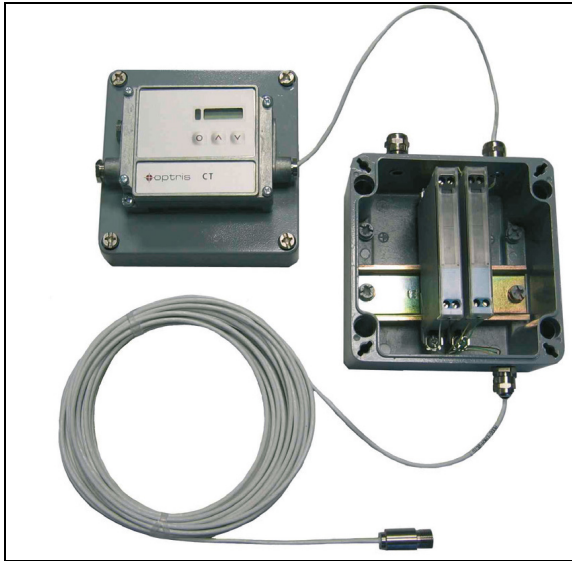


Infrared sensor for application in hazardous areas



Operators Manual - Addendum

Manufacturer's declaration for the CTex measurement system

The CTex 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

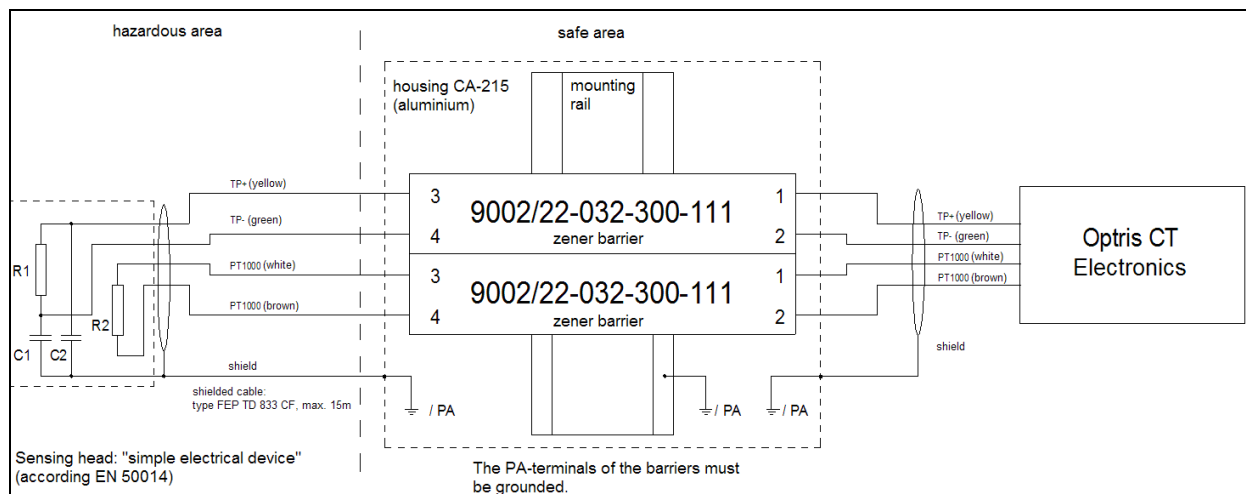


Figure 1: Connection diagram

Specifications



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

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