

위험 지역에서 사용가능한 방폭형 Optris CT

특성:

- 적외선 에너지를 받는 IR 센서 헤드와 방폭 장치가 설치된 일렉트로닉 박스로 구성
- CText 센서 헤드는 방폭이 필요없이 위험지역에 설치
- 독일 STAHL 사의 zener barriers (STAHL) 사용으로 필요이상의 전류 흐름 제한 (PTB 01 ATEX 2053/ E II (1/2) GD [Ex ia/ib] IIC/IIB)



기술 사양 (zener barriers)¹⁾

승인: Type 9002/22-032-300-111	Europe (CENELEC): for zone 1: PTB 01 ATEX 2053X for zone 2: PTB 01 ATEX 2054X IECEX PTB 08.0057X
	USA: UL E81680V1S3
	Canada: CSA 1284580 (LR 43394)
Classes, Divisions and Groups	Europe (CENELEC): for zone 1: E II (1/2) GD [Ex ia/ib] IIC/IIB for zone 2: E II 3 GD EEx nA II T4
	USA: I.S. circuits for: class I, II, III, division 1, groups A, B, C, D, E, F, G I.S. circuits for: class I, zone 0, group IIC class I, division 2, groups A, B, C, D class I, zone 2, group IIC
	Canada: I.S. circuits for: class I, groups A, B, C, D; class II, groups E, F, G class III class I, division 2, groups A, B, C, D class I, zone 2, groups IIC
설치	in zone 2, division 2 and in safe area
환경 등급	IP 67
주변 온도	-20 °C ... 60 °C

개념 / 공급 범위

개념	Classification of the optris CT sensing heads according to EN 60079-0/ EN 60079-11 (category of simple electrical devices) ²⁾
	Intrinsically safe by limitation of the energy with two double zener barriers, type 9002/22-032-300-111 (R. STAHL AG)
공급 범위	CTLT – Sensor (optics 2:1, 15:1, 22:1) with cable length 3 m, 8 m or 15 m (selectable)
	Aluminum housing with mounting appliance for two zener barriers and CT electronics
	2 zener barriers, type 9002/22-032-300-111 (R. STAHL AG) ³⁾

¹⁾ Declaration of company R. Stahl AG

²⁾ 사용자에게 의한 확인

³⁾ NOTE: 권장 barrier를 사용 할 경우에만 CT 센서의 기능 및 정확한 측정을 할 수 있음

CTex 측정 시스템

To verify that the optris 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:

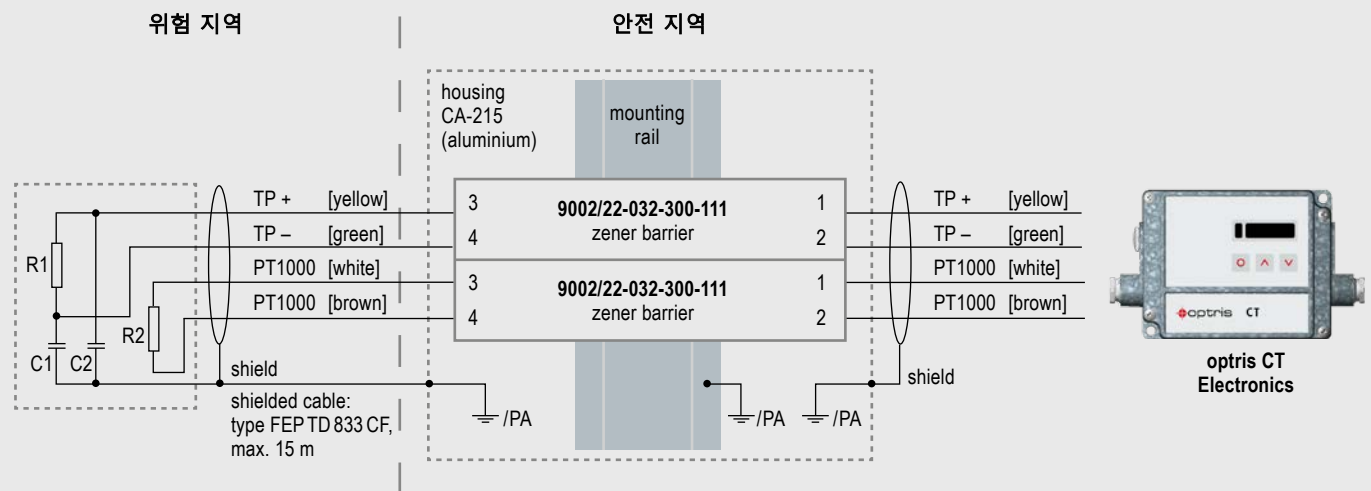
Capacitance lead/lead	min. 0.2475 nF	max. 0.2685 nF
Capacitance lead/rest	min. 1.515 nF	max. 1.551 nF

Capacitance in the sensing head:

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

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

연결



치수 (mm)

