



# eurofins



## Type Examination Certificate

for Electrical Equipment used in Potentially Explosive Atmosphere

Issued by Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK		
Applicant	Calex Electronics Ltd Leedon House, Billington Road, Leighton Buzzard, Bedfordshire, LU7 4TN. UK	
Manufacturer name	Calex Electronics Ltd Leedon House, Billington Road, Leighton Buzzard, Bedfordshire, LU7 4TN. UK	
Product name	Infrared Temperature Sensor	
Type/model code	ExTempMini, OSAT-Mini Series	
Type of protection	Ex ia	
Group, Temperature Class and EPL	Main enclosure: IIC T4 Gb	Sensing head: IIC T4/T3 Ga
The equipment shall be marked with the following	See attachment 1	
Ratings	See attachment 2	
Special condition for safe use	See attachment 3	
Certificate number	<b>CML 22JPN2009X</b>	
Term of validity	From 03-03-2022 to 02-03-2025	

This is to certify that the equipment specified above complies with the requirements stipulated in Ordinance on Examination of Machines and Other Equipment of the Ministry of Health, Labour and Welfare, Japan.

Issue date: 03-03-2022

Signature of chief examiner:



# eurofins



CML 22JPN2009X

Issue: 0

## Attachment 1: Marking

Main enclosure: Ex ia [ia Ga] IIC T4 Gb

Sensing head: Ex ia IIC T4 Ga

Ex ia IIC T3 Ga

## Attachment 2: Ratings

### Electrical ratings:

U<sub>i</sub> = 28 V

I<sub>i</sub> = 93 mA

P<sub>i</sub> = 0.651 W

C<sub>i</sub> = 5.17 nF

L<sub>i</sub> = 1.99 uH

### Temperature ratings:

Main enclosure: -20 °C to +70 °C

Sensing head: -20 °C to +115 °C (T4)

-20 °C to +180 °C (T3)

## Attachment 3: Special conditions for safe use

- i. The main enclosure does not meet a 500 Vrms dielectric strength test. This shall be taken into account when installing the equipment.
- ii. The supply cable used shall have a temperature rating > +70 °C.