



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX CES 25.0001X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2025-01-13  
Applicant: **Officine Orobiche S.r.l.**  
Via Giorgio Paglia, 22  
I - 24050, Zanica (BG)  
**Italy**  
Equipment: **Self-powered LCD indicator, types E0028, ST0028 and E4210**  
Optional accessory:  
Type of Protection: **Intrinsic safety 'i'**  
Marking: **Ex ia IIC T5 Ga**  
**Ex ia IIIC T80°C Da**

Approved for issue on behalf of the IECEx  
Certification Body:

**Alessandro Fedato**

Position:

**Head of IECEx CB**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**CESI**  
**Centro Elettrotecnico**  
**Sperimentale Italiano S.p.A.**  
**Via Rubattino 54**  
**20134 Milano**  
**Italy**

**CESI**



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Manufacturer: **Officine Orobiche S.r.l.**  
Via Giorgio Paglia, 22  
I - 24050, Zanica (BG)  
**Italy**

Manufacturing  
locations: **Officine Orobiche S.r.l.**  
Via Giorgio Paglia, 22  
I - 24050, Zanica (BG)  
**Italy**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[IT/CES/ExTR25.0001/00](#)

Quality Assessment Report:

[IT/CES/QAR16.0002/10](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Self-powered LCD indicators are suitable to display as engineering units the value of a current in a 4÷20 mA loop. The equipment is self-powered by means of a low drop voltage on the 4÷20 mA loop.

## Equipment identification

The equipment is available in several types based on the same electronic circuits, with different arrangements:

types **E0028** and **ST0028** => LCD indicator, designed to be placed in an enclosure having minimum degree of protection IP54 or in an environment having pollution degree 2 (or better) with an enclosure having minimum degree of protection IP20.

type **E4210** => "Ex ia" LCD indicator in a separately certified dust-tight enclosure IP66

## Marking options

The various types of the equipment are manufactured with the following type of protection:

types E0028 and ST0028: Ex ia IIC T5 Ga

type E4210: Ex ia IIC T5 Ga *and* Ex ia IIIC T80°C Da

## Ambient temperature range

All types: from -20 °C up to +60 °C

## Electrical characteristics

All types:  $U_i \leq 30 \text{ V}$ ;  $I_i \leq 100 \text{ mA}$ ;  $P_i \leq 1 \text{ W}$ ;  $C_i = 20 \text{ nF}$ ;  $L_i = 0 \text{ mH}$ .

The power supply of the equipment shall be made by associated apparatus, subject of a separate IECEx certification according to IEC 60079-11 standard, suitable for Group IIC (*all types*) and Group IIIC (*type E4210 only*).

The evaluation of the system compatibility shall be performed according to IEC 60079-25 standard.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- The end user shall connect the power supply cables to the equipment in accordance with the manufacturer's installation manual and the Standard IEC 60079-14. The connection shall guarantee the integrity of the equipment's type of protection.
- The unused openings in the enclosure shall be fitted with blanking elements in accordance with the type of protection of the equipment. In addition:
  - types **E0028** and **ST0028**: the equipment is designed to be placed in an enclosure having minimum degree of protection IP54 or in an environment having pollution degree 2 (or better) with an enclosure having minimum degree of protection IP20
  - type **E4210**: the cable entry into the enclosure, shall be made with accessories, subject to separate certification, that guarantee a minimum degree of protection of IP66