

1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially explosive atmospheres  
Directive 2014/34/EU**
3. EU-Type Examination Certificate Number: **EESF 22 ATEX 031X**
4. Product: Control Unit for Sensor Alarm System  
Certified types: idSET-34
5. Manufacturer: Labkotec Oy
6. Address: Myllyhaantie 6  
FI-33960 PIRKKALA  
Finland
7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Eurofins Electric & Electronics Finland Oy, Notified Body number 0537, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
  
The examination and test results are recorded in confidential report No. EUFI29-22002471-T1.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
  
**EN IEC 60079-0:2018**                      **EN 60079-11:2012**
10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:

**II (1)G [Ex ia Ga] IIB****Ta = -30 °C...+50 °C**

Espoo, 31.1.2023  
**Eurofins Electric & Electronics Finland Oy**

Jenni Hirvelä  
Senior Expert

Kari Koskela  
Senior Expert

This document is digitally signed.



13. **Schedule**14. **EU-Type Examination Certificate EESF 22 ATEX 031X**15. **Description of Product**

Associated apparatus idSET-34 is intended to be installed in to safe area only. The device is intended to be connected to Gas Group IIB level sensor in Zone 0. Four output relays (potential-free relay contact outputs 250 V, 5 A, 100 VA) are intended for control devices installed in safe area. The device is normally used to indicate surface level locally at safe area. The device is supplied from the mains voltage 230 VAC or 115 VAC.

The maximum values of IS output values with level of protection [Ex ia Ga] are:

$$U_o = 14.5 \text{ V}$$

$$I_o = 78 \text{ mA}$$

$$P_o = 367 \text{ mW}$$

$$R_i = 243 \text{ } \Omega$$

The output is trapezoidal ( $U_Q = 18,9 \text{ V}$ )

Maximum external standalone capacitance and inductance values are:

$$C_o = 4 \text{ } \mu\text{F} \text{ and } L_o = 15.0 \text{ mH}$$

Combined  $C_o + L_o$  values:

$C_o$ :	$L_o$ :
1.2 $\mu\text{F}$	1.0 mH
1.1 $\mu\text{F}$	3.0 mH
1.0 $\mu\text{F}$	5.0 mH

16. **Report Number**

EUF129-22002471-T1

17. **Specific Conditions of Use**

Allowed ambient temperature range is  $T_{amb} -30 \text{ }^\circ\text{C} \dots +50 \text{ }^\circ\text{C}$

18. **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

19. **Drawings and Documents**

Drawings and documents are listed in the confidential report.

20. **Certificate History**

Issue	Date	Report No.	Change
-	31.1.2023	EUF129-22002471-T1	Prime certificate