Karandikar Laboratories

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F 08 CE Rev. 02

Ex EQUIPMENT TYPE EXAMINATION REPORT

1)

2) TE Report Number: **KLPL/Ex/26-042X Issue no.00** **Dated: 27.04.2026**

3) **Ex Equipment:** **Audio Visual Alarm**
Model: TX6831

4) **Manufacturer:** **Trolex Limited**
Newby Rd, Hazel Grove, Stockport
SK7 5DY, United Kingdom.

5) This equipment and any acceptable variation thereto are specified in the schedule to this report and the documents therein referred to

6) Karandikar Laboratories Pvt. Ltd. reports that this equipment has been found to comply with requirements of the following standards relating to the design and construction of equipment for explosive gas/dust atmospheres as applicable.

7) This TE Report was issued as verification that a sample, was assessed, tested and found to comply with the IS / IEC standards listed below.
IS/IEC 60079-0:2017 & IS/IEC 60079-11:2023

8) The Examination and Test results are recorded in KLPL's confidential
Report No.: KLPL/Ex/TL-26/001 **Dated: 27.04.2026**

9) The sign X if placed after the TE report number; it indicates that the equipment is subject to specific conditions of use specified in the schedule to this TE Report.

10) This Report does not indicate compliance with electrical safety and performance requirements other than those expressly included in the above listed standards.

11) The marking of the Equipment shall include the following:

Ex Code:
Ex ia I Ma (-20°C ≤ Ta ≤ +60°C)

KARANDIKAR LABORATORIES PVT. LTD. BOISAR 401501

A.V. Karandikar

Ajit Karandikar
CEO

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12) Details of Type Examination Reports Issued: -

TE Report No.	Issue No.	Report No.	Date	Reason for Issue
KLPL/Ex/26-042X	00	KLPL/Ex/TL-26/001	27.04.2026	Original issue

13) Description of equipment

The TX6831 Audio/Visual Alarm provides a visual and audible indication of a malfunction in an associated sensor to which it is connected. When the sensor output signal is at a normal level, the equipment emits a light pulse every 15 seconds, verifying that the unit is working. If the output exceeds a pre-set limit, the flash rate increases to once per second, indicating that an alarm condition has occurred. There is an optional integral sounder to provide an audible warning. The equipment is housed in an enclosure comprising a base moulding and a lens moulding. The base is manufactured from stainless steel-filled polycarbonate or stainless steel filled Nylon 6 and the lens from antistatic polycarbonate or polycarbonate impregnated with an anti-static coating. The equipment mounts directly on top of the sensor, with a gasket seal to ensure an ingress protection of at least IP 54. A labyrinth seal around the sounder maintains the ingress rating. Four wires exit the equipment: two for connection to a suitable power supply and two for connection to the output signal terminals of the sensor.

14) Model Designation:

Model No.	Product	Rating
TX6831	Audio Visual Alarm	Refer Point 17

15) Drawings & Documents:

Drawing Number	No. of sheets	Rev No.	Date	Title
P5459.01	2	C	09.05.2012	Certified Circuit Diagram
P5459.02	1	C	02.06.2015	General Arrangement
P5459.1802	1	A	27.04.2026	Indian Certification Marking- TX6831(.xx...) AV Alarm
P5459.05	5	A	04.04.2000	Control PCB Manufacturing Specification
P5459.03	5	A	04.04.2000	Power Input PCB Manufacturing Specification

Drawings listed above are finally accepted as accurately representing the product *for which this evaluation report has been prepared. These drawings provide necessary information as required by the above referred standards.*

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16) Temperature Class:

Considering the ambient temperature range of -20°C to +60 °C, the requested maximum surface temperature of "150°C" and "450°C" is acceptable.

17) Electrical Rating:

Power input (Red and Black Wire)
Ui = 16.5 V Ci = 1.2 nF Li = 0
Input signal (Yellow and Green Wire)
Ui = 16.5 V Ci = 0 Li = 0
Monitor trip voltage (Test point)
Ui = 16.5 V Ci = 0 Li = 0

18) Specific conditions of use:

1. Under normal or fault conditions, the internal temperature of this equipment may rise above 150°C; therefore, care shall be taken when the enclosure is opened to ensure that no dust enters the equipment.
2. The antistatic coating can be adversely affected by contact with acid or damage to the lens. Suitable precautions shall be taken to avoid such instances and the lens shall be inspected periodically for any damage.

19) Routine test: Nil

END OF DOCUMENT

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Karandikar Laboratories Pvt. Ltd.
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