



**CSIR-CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH**  
**ISO 9001 REGISTERED**

FORMERLY : CENTRAL MINING RESEARCH INSTITUTE  
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)

बरवा रोड, धनबाद – 826015 (भारत) – BARWA ROAD, DHANBAD - 826015 (INDIA)

**परीक्षण प्रमाण पत्र – TEST CERTIFICATE**

[FORM NO.: CIMFR: DQM: FLP02: F-02]  
(Flame & Explosion Lab.)

ID NO. 655/12

CODE NO. FLP/256B/12-13

**FIRST SCHEDULE**

[For association with the report of test sent (under cover of this office Letter No CIMFR/TC/P/11734 Dated 6 February, 2013) to M/s. Trolex Ltd., Newby Road, Hazel Grove, Stockport, SK7 5 DY UK, in respect of testing as regards to intrinsic safety of the equipment mentioned below submitted by them for testing]

**NAME & DESCRIPTION OF THE APPARATUS:** The name of the apparatus is **TX5831 Insertion Level Switch.**

The TX5831 is a level switch for installing in tanks, vessels, containers and sumps to monitor liquid level. A float (phenolic or stainless steel) moves up and down the body of the unit to operate a number of magnetic reed switches which are fixed at different heights. The unit is unpowered and provides switched contacts. The unit meets the IEC 60079-11 requirements for Simple Apparatus.

The external power supply must be given through certified and approved Intrinsically Safe power source as agreed by the applicant via letter dated 2<sup>nd</sup> February, 2013.

**APPLICANT:** M/s. Trolex Ltd.,  
Road, Hazel Grove,  
Stockport., SK7 5 DY  
UK.

**MANUFACTURER:** Same as above

**DRAWING/DOCUMENT:**

Sl. No.	Document No.	Sheet	Rev.	Date	Title
1.	P5223.120.I		A	18/11/10	General Assembly Oil level Switch
2.	P5223-184		A	29/01/13	TX5831 Level Switch Details
3.	Letter 02/02/13			02/02/13	IS Power Source

**APPLICABLE ZONE & GAS GROUP:** Gas Group I atmospheres only.

**TEMPERATURE CLASS:** T6 at 40°C ambient.

**STANDARD REFERENCE:** IS/IEC 60079-11:2006, IS/IEC 60079-0:2004 and IS/IEC 60529-2001.

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