**COLLECTION OF IECEx / ExTAG DECISION**

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| **Standard:** IEC 60079-0 | **Clause:**  - | **Date:**  **Originator of revision:**  UL LLC |
| **Subject: Thermocouples**  **Reference to;**  IEC 60079-0 and subordinate standards  IECEE-OD 5012  **Status of document:**  Approved | **Key word:**   * Thermocouples | **TC/SC involved:**  WG 22 |

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| **Background:**  IEC 60079-0 and subordinate standards require that surface, and sometimes service, temperatures are determined.  The method of determining temperature often relies on the use of thermocouples.  Experience has shown that the method of manufacture and the method of attachment of thermocouples can differ from laboratory to laboratory.  Estimates of uncertainty of measurement are often not fully applied.  There exists IECEE OD-5012 which addresses some of the issues and can help overcome some of the perceived issues.  Version B of this Decision Sheet has been issued to provide a link to the IECEE OD-5012.  **Question:**  Should IECEE OD-5012 be adopted as the recommended practice for ExTLs to utilize thermocouples?  **Answer:**  Yes, it is recommended to prepare and use thermocouples in accordance with IECEE document IECEE OD-5012, which is available at [IECEE Documents | Rules, Operational Documents & Guides](https://www.iecee.org/documents/refdocs/). It is further recommended to use thermocouples with a lead diameter of 0.2mm. |