**INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC) SYSTEM FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES (IECEx SYSTEM)**

**Title: ExTAG/540A/CD - Revised Draft ExTAG Decision Sheet – Smartphone or a tablet containing a LED to support a camera function.**

**Circulated to: ExTAG – IECEx Testing and Assessment Group**

**INTRODUCTION**

This document, *ExTAG/540A/CD* *Revised* *Draft ExTAG Decision Sheet - Smartphone or a tablet containing a LED to support a camera function,* has been prepared by the originator PTB, DE, taking into account comment received on ExTAG/540/CD Draft ExTAG Decision Sheet - Smartphone or a tablet containing a LED to support a camera function, which it now replaces . This updated version also includes tracked changes.

A Compilation of Comments on ExTAG/540/CD along with originator observations are contained in ExTAG/550/CC.

In accordance with OD 035, ExTAG/540A/CD has been prepared for a 6 weeks circulation comment period.

Please submit comments on this new Draft DS using the comments table, a separate document, by –

**2019 05 23**

**to**

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**ExTAG Secretary**

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| Standard:  IEC 60079-0 7th edition | **Clauses:**  21.1  26.4.2 | **Draft Decision Sheet:**  ExTAG/540A /CD |
| **Subject:**  Impact test  **Status of document:**  Draft | **Key words:**   * Ex Equipment * Smartphone * Tablet * Luminaire * Impact test | Date: April 2019 **Originator of proposal:**  PTB  **TC/SC involved:**  TC31 WG22 |
| **Background**  In the 7th edition of IEC 60079-0, modifications have been made to the impact values in Table 15 (formally Table 13 in the 6th Edition). The impact requirements for luminaires have been relocated to Table 15 from clause 21.1 and the following highlighted new definitions have been added to the table.    The highlighted requirements have been copied from IEC 60079-7:2015 Table 14 without mentioning in the table “The significance of the changes between IEC Standard, IEC 60079-0, Edition 6 (2011) and IEC 60079-0, Edition 7 (2017)”.  Copying this requirement into IEC 60079-0 is a major technical change, because this is now applicable to all Type of Protection portable luminaires and not to those in Type of Protection Ex e only.  **Question**  Is a smartphone or a tablet containing a LED to support a camera function considered a luminaire in the sense of IEC 60079-0? | | |
| **Answer**  Where there is no “torch” or “flashlight” function, or that function has been disabled, a smartphone or a tablet containing a LED to support a camera function is a portable or transportable Ex Equipment, as the integral LED has only an auxiliary function and where the main function of the equipment is not to be a luminaire. Thus, it is not considered as a portable or transportable luminaire and the impact requirements for luminaires, such as footnote b of table 15, are not applicable.  However, where the LED serving as a “torch” or “flashlight”, or this function is not disabled, the requirements for portable luminaires or handlights, such as footnote b of table 15, are applicable to the LED part only. | | |