



# UL 60079-28

## STANDARD FOR SAFETY

Explosive Atmospheres – Part 28:  
Protection of Equipment and  
Transmission Systems Using Optical  
Radiation

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UL Standard for Safety for Explosive Atmospheres – Part 28: Protection of Equipment and Transmission Systems Using Optical Radiation, UL 60079-28

Second Edition, Dated September 15, 2017

### **Summary of Topics**

***This revision of ANSI/UL 60079-28 dated December 7, 2021 includes revisions to Clause [5.3.2](#) and Table DVF.1 of Annex F to permit a number of other cables in hazardous (classified) locations that can incorporate optical fiber elements.***

***Please note that the national difference document incorporates all of the US national differences for UL 60079-28. UL 60079-28 is based on IEC 60079-28, Edition 2.0 published May, 2015.***

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated October 15, 2021.

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**ANSI/UL 60079-28-2021**

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**UL 60079-28**

**Standard for Explosive Atmospheres – Part 28: Protection of Equipment and  
Transmission Systems Using Optical Radiation**

**Second Edition**

**September 15, 2017**

This ANSI/UL Standard for Safety consists of the Second Edition including revisions through December 7, 2021.

The most recent designation of ANSI/UL 60079-28 as an American National Standard (ANSI) occurred on December 7, 2021. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface. The National Difference Page and IEC Foreword are also excluded from the ANSI approval of IEC-based standards.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

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## Preface (UL)

This UL Standard is based on IEC Publication 60079-28: second edition Explosive Atmospheres – Part 28: Protection of Equipment and Transmission Systems Using Optical Radiation, as revised by IEC corrigendum 1. IEC publication 60079-28 is copyrighted by the IEC.

Efforts have been made to synchronize the UL edition number with that of the corresponding IEC standard with which this standard is harmonized. As a result, one or more UL edition numbers have been skipped to match that of the IEC edition number.

The ISA-60079-28:2012 standard is being maintained until September 15, 2022 for reference purposes only.

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Note – Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.

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