

Hazardous Location Installation Information

This appendix provides hazardous location installation information for the Cisco Catalyst IE9300 Rugged Series switch.

Also refer to the *Cisco Catalyst IE 9300 Rugged Series Switch Regulatory and Compliance Document*.

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Hazardous Area Installation Warnings

Read and understand the warnings in this section before installing the switch in a hazardous environment.

Caution When installed in a Class I. Div/Zone 2 hazardous location environment, this equipment must be installed in a min. IP54 certified enclosure.

Caution Airflow around the switch must be unrestricted. To prevent the switch from overheating, there must be the following minimum clearances:

- Top and bottom: 1 RU (1.75 in. or 4.4 cm)
- Sides: 1 RU
- Front: 1 RU

Contact your Cisco Technical Assistance Center (TAC) if tighter spacings are required.

Caution When installed in a Class I. Div/Zone 2 hazardous location environment. This equipment must be installed in a pollution degree 2 environment per IEC 60664-1)

Caution This equipment is suitable for use in Class I. Division 2. Groups A, B, C, D, or only nonhazardous locations.

Caution Do not install or remove SFP or SFP+ modules when an explosive atmosphere may be present.

Caution Do not install or remove power supplies when an explosive atmosphere may be present.

Caution Do not use the USB Console Service Port when an explosive atmosphere may be present.

Caution Do not install or remove the SD card when an explosive environment may be present.

Caution Do not use the USB type-A host port when an explosive atmosphere may be present

Warning **Statement 1017—**Restricted Area

This unit is intended for installation in restricted access areas. Only skilled, instructed, or qualified personnel can access a restricted access area.

Warning Use twisted-pair copper wire (16- to 14-AWG or 1.31- to 2.08-mm2) to connect from the power input terminal to the high-voltage AC or DC power supply module. Use 12-AWG or 3.31-mm2 (minimum) for the low-voltage DC power supply module. For power source connections, use wires rated for at least 194°F (90°C).

Note This equipment has been tested by UL for the explosion, fire, shock, and casualty hazards required by the applicable hazardous locations standards. UL certification does not cover the performance or reliability of any GPS hardware, GPS operating software, or other GPS-related aspects of equipment covered under this category. Accordingly, UL makes no representations, warranties or certifications regarding the performance or reliability of any GPS-related functions of equipment covered under this category.

North American Hazardous Location Approval

The following information applies when operating this equipment in hazardous locations:

English:	Products marked "Class I, Div 2, GP A, B, C, D" are suitable for use in Class I Division 2 Groups A, B, C, D, Hazardous Locations and nonhazardous locations only. Each product is supplied with markings on the rating nameplate indicating the hazardous location temperature code. When combining products within a system, the most adverse temperature code (lowest "T" number) may be used to help determine the overall temperature code of the system. Combinations of equipment in your system are subject to investigation by the local Authority Having Jurisdiction at the time of installation.
Français:	Informations sur l'utilisation de cet équipement en environnements dangereux: Les produits marqués "Class I, Div 2, GP A, B, C, D" ne conviennent qu'à une utilisation en environnements de Classe I Division 2 Groupes A, B, C, D dangereux et non dangereux. Chaque produit est livré avec des marquages sur sa plaque d'identification qui indiquent le code de température pour les environnements dangereux. Lorsque plusieurs produits sont combinés dans un système, le code de température le plus défavorable (code de température le plus faible) peut être utilisé pour déterminer le code de température global du système. Les combinaisons d'équipements dans le système sont sujettes à inspection par les autorités locales qualifiées au moment de l'installation.

EMC Environmental Conditions for Products Installed in the European Union

This section applies to products to be installed in the European Union.

The equipment is intended to operate under the following environmental conditions with respect to EMC:

- A separate defined location under the user’s control.
- Earthing and bonding shall meet the requirements of ETS 300 253 or CCITT K27.
- AC-power distribution shall be one of the following types, where applicable: TN-S and TN-C as defined in IEC 364-3.

In addition, if equipment is operated in a domestic environment, interference could occur.

Hazardous Locations Standards

The following table lists the standards that are used for hazardous locations approval and certification in English and French.

Table 1: Standards for Hazardous Locations

The following standards were used for the hazardous locations approvals and certifications:	**Les normes suivantes ont été appliquées pour les approbations et les certifications dans le cadre d'environnements dangereux:**
UL 121201, Ed. 9	UL 121201, Éd. 9

CAN/CSA C22.2 No. 60079-0:19, 4th Edition, February 2019	CAN/CSA C22.2 No. 60079-0:19, 4e éd., fevrier 2019
CAN/CSA C22.2 No. 60079-7:16	AN/CSA C22.2 No. 60079-7:16
CSA C22.2 No. 213-Ed. 3	A C22.2 No. 213-Éd. 3
EN IEC 60079-0:2018	EN IEC 60079-0:2018
EN 60079-7: 2015+A1:2018	EN 60079-7: 2015+A1:2018
UL 60079-0 7th Edition, 2019-03-26	UL 60079-0, 7e éd., 2019-03-26
UL 60079-7, 5th Edition, 2017-02-24	UL 60079-7, 5e éd., 2017-02-24
UL 60079-15 5th Edition, 2020-04-07	UL 60079-15, 5e éd., 2020-04-07
CAN/CSA-C22.2 No 60079-15:18, November 2018	CAN/CSA-C22.2 No 60079-15:18, novembre 2018
EN IEC 60079-15: 2019	EN IEC 60079-15: 2019

The following table lists the hazardous location strings in English and French.

Table 2: Hazardous Location Strings

The following hazardous locations strings are provided on the Cisco Catalyst IE9300 Rugged Series Switch:	**Les marques d'homologation relatives aux environnements dangereux suivantes sont apposées sur le commatateur robuste Cisco Catalyst IE9300:**
Class 1, Div 2, Groups A, B, C, D	Classe 1, Div 2, Groupes A, B, C, D
Class 1, Zone 2, Ex ec nC IIC T4 Gc X	Classe 1, Zone 2, Ex ec nC IIC T4 Gc X
CE Ex II 3 G, Ex ec nC IIC T4 Gc	CE Ex II 3 G, Ex ec nC IIC T4 Gc
UL 21 ATEX 2657X UL23UKEX2871X	UL 21 ATEX 2657X UL23UKEX2871X
Class 1, Zone 2, AEx ec nC IIC T4 Gc X	Classe 1, Zone 2, AEx ec nC IIC T4 Gc X