



Technical Specifications

The most current technical specifications for the IE 2000 series switches can be found in the [IE 2000 Data Sheet](#). Additional specs and detail not in the Data Sheet, are found in this section.

Enclosure Specifications

[Table 14 on page 81](#) lists enclosure specifications for the Cisco IE 2000 switches.

Table 14 Enclosure Specifications for the Cisco IE 2000 Switches

	Industrial Automation and Hazardous Locations	Substation	Traffic Signal
Enclosure types	Sealed enclosures For example: NEMA4, NEMA4X, NEMA12, NEMA13, IP54, and IP66.	Vented enclosures For example: NEMA1, IP20, and IP21.	Fan or blower-equipped enclosures For example: NEMA TS-2. Note: The minimum airflow is 150 lfm ¹ .

¹ lfm = linear feet per minute.

Note:

- The maximum ambient temperature of the IE-2000-16TC-G-X and IE-2000-16PTC-G-NX model is +65° C due to its conformal coating feature. The maximum ambient temperature of the IE-2000-16PTC-G-L, IE-2000-16PTC-G-E, and IE-2000-16PTC-G-NX model is +65° C if powering four PoE+ ports of 30 Watt each.
- The safety certifications apply only to ambient temperatures under 140° F (60° C). However, the Cisco IE 2000 switch can function in the substation and traffic signal installations under the environmental conditions shown in [Table 14 on page 81](#).

Alarm Ratings

[Table 15 on page 81](#) lists the alarm ratings for the Cisco IE 2000 switches.

Table 15 Alarm Input and Output Ratings

Alarm Ratings	Specification
Alarm input electrical specification	No power required—open or closed state detected.
Alarm output electrical specification	1.0 A @ 24 VDC or 0.5 A @ 48 VDC

Hazardous Locations Standards

Table 16 on page 82 lists the hazardous location standards for the Cisco IE 2000 switches.

Table 16 Hazardous Locations Standards

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 :
ANSI/ASA 12.12.01-2013	ANSI/ASA 12.12.01-2013
CAN/CSA C22.2 No. 60079-0: 11	CAN/CSA C22.2 n° 60079-0 : 11
CAN/CSA C22.2 No. 60079-15:12	CAN/CSA C22.2 n° 60079-15 :12
CSA C22.2 No. 213-M1987	CSA C22.2 n° 213-M1987
EN 60079-0:2012	EN 60079-0:2012
EN 60079-15:2010	EN 60079-15:2010
IEC 60079-0 6th Edition	IEC 60079-0, 6e édition
IEC 60079-15 4th Edition	IEC 60079-15, 4e édition
UL 60079-0, 5th Ed, 2009-10-21	UL 60079-0, 5e éd., 21-10-2009
UL 60079-15, 3rd Ed, 2009-7-17	UL 60079-15, 3e éd., 17-07-2009