

Explosion-proof PoE network switch



AI Overview

Explosion-proof PoE network switches provide both power and data connectivity in hazardous environments, with specialized enclosures and certifications for flammable atmospheres.

Key Features

Port and Power Options: Typical models offer 4 to 8 PoE ports, supporting standards like 802.3af (15.4W per port) or PoE++ for higher power devices. Total power budgets vary; for example, a 4-port switch may provide 56W total, sufficient for multiple cameras.

Enclosure and Safety Ratings: Enclosures are made from cast or copper-free aluminum, often seawater-resistant, and designed to withstand hazardous conditions. Certified for Class I, II, III hazardous locations, with NEMA 3R, 4, 4X, 7, and 9 ratings, ensuring protection against dust, water, and explosive gases or dusts. Some models feature Ex d-rated enclosures for explosion protection and glass fronts for safe status monitoring.

Design and Installation: Many switches are fanless, reducing ignition risk and providing quiet operation. Conduit hubs (e.g., 1/2" NPT) allow secure wiring, with options for customized factory-drilled conduit taps. Wall-mountable designs are common, and some switches support fiber connectivity for long-distance network links.

Management and Monitoring: Managed models, like Axis Ex Connection Rail 8-Port PoE++, offer web-based GUI for network monitoring, device reboot, traffic diagnostics, and cable testing. Unmanaged models provide plug-and-play simplicity, ideal for straightforward camera installations in hazardous areas.

Example Models

Axis Ex Connection Rail 4-Port PoE: High-performance switch with 24V DC power supply, suitable for hazardous areas and long-distance camera connections via fiber or copper.

Axis Ex Connection Rail 8-Port PoE++: Managed switch with 8 PoE ports, additional RJ45 and SFP ports, and a web GUI for monitoring and management.

Larson Electronics EXP-IP-POE-NW-SW-5P-4XPOE: 4-port fanless switch, 802.3af compliant, NEMA 3R/4 rated, suitable for Class I, II, III combustible facilities.

Applications Explosion-proof PoE switches are ide...

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ExConnection Rail 4 POE PS24

The T04 ExConnection Rail series is a high-performance PoE-switch for use in hazardous areas. It has been developed to connect our explosion-proof network

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Ex Connection Rail 4-port PoE

ExConnection Rail 4-Port PoE is a high performance PoE switch and 24 V DC power supply for hazardous areas. It is designed to connect explosion-protected

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The Spectrum EX-JB-T8504-R Explosion-Proof Junction box, housing the AXIS T8504-R Industrial PoE Switch, is a ruggedized 4-port managed industrial

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Axis 01536-001 Explosion-protected PoE Switch and

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Comparison

Explosion-proof PoE Network Horn Speaker MAG204HD is an intrinsically safe, explosion-proof, waterproof and dustproof horn speaker that supports PoE power supply and adopts a corrosion

AXIS Explosion-protected 8 Port PoE++ Switch

Ex Connection Rail 8-Port PoE++ ist ein leistungsstarker industrieller PoE++-Switch für explosionsgefährdete Bereiche. Es ist darauf ausgelegt, bieten Strom und

AXIS Explosion-protected 8 Port PoE++ Switch

Ex Connection Rail 8-Port PoE++ is a high performance industrial PoE++ switch for hazardous areas. It is designed to provide power and network connectivity for up

Explosion Proof Ethernet Switch

losion proof 4-port POE network switch provides cameras when they are not wired directly to the NVR. Designed for combustible sites, this network switch offers 802.3af ports that each provide up to

Ex Connection Rail 8-port PoE++ | Axis Communications

Ex Connection Rail 8-Port PoE++ is a high performance industrial PoE++ switch for hazardous areas. It is designed to provide power and network connectivity for up

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