

Digital optical transmitter indicator light



Summary of Content

A digital optical transmitter indicator light visually signals the operational status of a transmitter, often using LEDs to indicate power, signal presence, or fault conditions.

Function and Purpose

A digital optical transmitter indicator light is designed to provide a visual indication of the status of a digital or optical transmitter. It helps operators quickly identify whether the transmitter is powered, transmitting signals correctly, or experiencing faults. These indicators are commonly used in industrial automation, process control, and measurement systems to enhance monitoring and safety .

Types and Features

- **LED Indicators:** Most digital optical transmitter lights use LEDs due to their long life, low power consumption, and bright visibility. Colors such as red, green, amber, or blue can indicate different states like normal operation, warning, or error .
- **Voltage and Current Ratings:** Indicator lights can operate across a wide voltage range (1.6 V to 480 V) and current ratings (0.3 mA to 10 A), depending on the transmitter and application .
- **Mounting Options:** These lights are typically panel-mounted, allowing easy integration into control panels or transmitter housings .
- **Digital Integration:** Some indicators are part of digital display units that show measured values from transmitters, including 4-20 mA, 0-10 V, or other analog/digital signals. Advanced models may include Modbus RTU communication, alarms, and configurable color displays .

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