Peripheral and Detection Devices
Initiating Device

Intelligent Remote Alarm Lamps
Models ILED-XC | ILED-XW

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Architect & Engineer Specifications

☐ Multi-color intelligent light-emitting diode (ILED) mimics the detector:
- Illuminates in any variation of GREEN | AMBER | RED

☐ Dual, built-in isolators

☐ Meets Class X (Style 7) survivability requirements

☐ Low current draw

☐ Restriction of Hazardous Substances (RoHS) compliant

☐ Additional-accessory capability:
- when used an audible base or relay base

☐ Wall and ceiling lamps can be addressed and independently controlled by fire-alarm control panel (FACP) logic

☐ Ceiling and wall can be mounted anywhere on a device loop :
- e.g. – communication loop or the wiring on that loop

☐ UL864 | UL2572 | UL2017 Listed; CAN/ULC-S527 & CAN/ULC-S576 Listed
- File S24304, Vol. 3

Product Overview

The Siemens – Fire Safety Intelligent Remote Lamps (Models ILED-XC | ILED-XW) are specifically tailored for use with initiating devices that are concealed or otherwise not easily within view (e.g. – above suspended ceilings; under sub-floors, in unexposed ventilating ducts, normally locked vaults or closed rooms, etc.)

The Intelligent Remote Alarm Lamps can connect to Siemens addressable fire-alarm control panels (FACPs). Model ILED-XC is mounted on a 4-inch (10.2 cm.) octagon outlet box. Model ILED-XW is fastened on a single-gang electrical box. The module uses one (1) address on the loop.

NOTE: Refer to installation manual: **P/N – A6V101055484** to ensure Model ILED-XC | ILED-XW compatibility with the Siemens FACPs intended for use in the given application.

Models ILED-XC and ILED-XW provide intelligent built-in, dual isolation, meeting Class X (Style 7) survivability requirements for shorts while providing reliable alarm communication to the Siemens FACP. Up to 190 isolators are allowed per loop and up to 30 devices can be connected between isolators (via wiring in a polarity-insensitive mode). The devices between isolators can be `H'-series or later `X' generation devices.

Specifications

The isolation feature found on the Intelligent Remote Alarm Lamps gives information as to the location of the short. When a short occurs, the panel can identify the short automatically, and the module recognizes the short location (in front of the device or behind the device). Overall, the dual, built-in isolators improve the diagnostics and area of the short and report when a Class X module is misconfigured.

The modules are configurable by compatible panel(s) in an isolator (polarity sensitive) or non isolator (polarity insensitive) mode. When a Model ILED-X-series lamp is configured as an isolator it may serve a dual purpose by simultaneously functioning as an input / output device and an isolator. Advanced troubleshooting is provided by compatible panels by identifying when an ILED-X-series device is configured as an isolator but is wired incorrectly in a polarity-insensitive mode.

Although there is no regulatory limitation for mounting the lamps, be advised that Model ILED-XC is often ceiling mounted, and Model ILED-XW is intended for wall mounting. These intelligent remote lamps can be mounted on a Siemens compatible-panel device loop.

Each LED can be controlled by FACP logic — even on different device loops or on another panel in the network configuration — since Model ILED-XC or Model ILED-XW is given its own unique address.
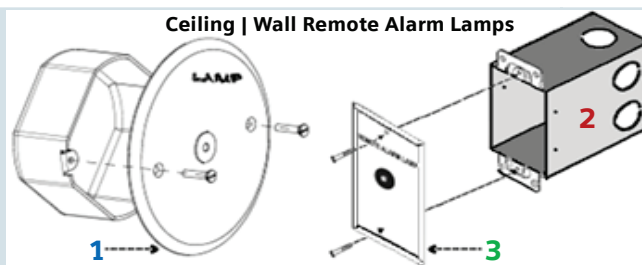
Model ILED-XC
Remote Alarm Lamp, Ceiling

Model ILED-XW
Remote Alarm Lamp, Wall

NOTE: The single-gang electrical box, seen in the in the far-right CGI, is supplied-by-others (BO).

1. **ILED-XC faceplate**

2. **Single-gang switchbox (user supplied)**

3. **Blank, single-gang plate**

Operation

Field-Device Programmer / Test Unit

Each Remote Alarm Lamp is programmed with the Siemens field-device programmer / test unit (Model DPU), which is a compact, portable and menu-driven accessory for electronically programming and testing Siemens peripheral modules and devices promptly and reliably.

For instance, the field technician selects the accessory's program mode, and enters the desired address. Vibration, corrosion and other conditions that deteriorate mechanical-addressing mechanisms are no longer a cause for concern. Each remote alarm lamp is connected to Model DPU with the programming cable provided with the tester. This programming cable **(P/N 110-694927)** utilizes two (2) clip connectors to attach to a Model ILED-XC **|** Model ILED-XW lamp.

NOTE: Since the Class X Intelligent Remote Alarm Lamps are advanced initiating devices, the latest Model DPU firmware update is required.

When set in `test' mode, Model DPU will perform a series of diagnostic tests without altering the address or other stored data, allowing technicians to determine if the detector is operating properly.

Each field-device programmer / test unit operates on AC power or rechargeable batteries, providing flexibility and convenience in the programming / testing of fire-safety equipment from practically any location. Additionally, with the use of a Model DPU unit, there is no longer a concern with any vibration, corrosion and other deteriorating conditions that compromises the vitality of a mechanical-addressing mechanism.

Application Note

Models ILED-XC and ILED-XW can also be utilized as a second accessory of a detector when assigned to respond to detectors that have remote relay or audible bases.

Temperature and Humidity Range

The Remote Alarm Lamps are UL Listed **|** ULC Listed. Environmental operating conditions for each Remote Lamp is 32°F (0°C) to 120°F (49°C) with a relative humidity of no greater than 95%, non-condensing.

Technical Data

OPERATING VOLTAGE RANGE:	18VDC – 32VDC
RELATIVE HUMIDITY:	0 – 95% (non-condensing)
`ACTIVE' OR `STANDBY' CURRENT, MAX.:	500µA
LINE SIZES **AMERICAN WIRE GAUGE (AWG)**	14 AWG, max. 18 AWG, min.

Details for Ordering

MODEL OR TYPE	PART NUMBER	PRODUCT
ILED-XC	S54370-B6-A1	Intelligent Remote Lamp, Ceiling (with built-in isolator)
ILED-XW	S54370-B5-A1	Intelligent Remote Lamp, Wall (with built-in isolator)
DPU	500-033260	Device Programmer / Test Unit

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