



Catalog Number	
Notes	Type

FEATURES & SPECIFICATIONS

INTENDED USE

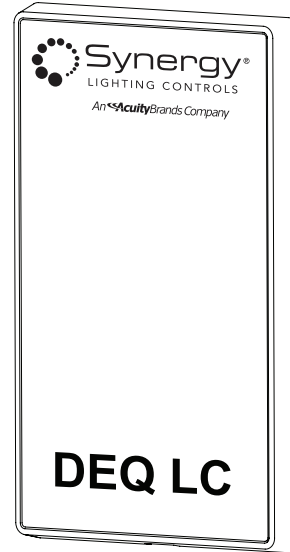
The DEQ LC is a digital device intended for stand-alone, distributed control applications. It provides switching and dimming control of fluorescent lighting when used in conjunction with compatible 0-10Vdc four wire dimming ballasts, remote relay packs, photocell and occupancy sensors. It is an ideal solution for energy management and daylight harvesting applications. The DEQ LC can also be connected to a Synergy system's digital control station network for time clock, central monitoring or building automation functions.

Provides system performance in a stand-alone product for automatic switching and dimming. Delivers seamless dimming control for daylight harvesting and local switching without homerun circuits to central control cabinet.

- Mounts above ceiling
- Low profile design with black faceplate for clean installation.
- Input/Output
 - Dimming requires 0-10Vdc ballast(s)
 - Compatible with Sensor Switch Occupancy Sensors
 - Compatible with most 0-10 volt photocells (0-10Vdc or 10-0Vdc)
 - Sensor Switch PP20 power pack can provide power to DEQ LC, occupancy sensor and photocell
- Connects to a Synergy lighting control system controller via a four-conductor network bus.
- 24 VDC operating power provided by remote power pack (Synergy PP20) or Synergy panel via the A4 network connection.
- Pigtailed are provided for connection to devices.
- **REQUIRES GROUNDED BACK BOX**

DEQ LC

Distributed Controller, 0-10VDC Remote Mount



ORDERING INFORMATION

Example: **DEQ LC**

DEQ LC	
Series	
DEQ LC	Load controller

Accessories

Order as separate items.

- SYA CABLEA4** Plenum rated network cable.
- PP20** Accessory power pack. Required to switch lighting load.
- DEQ APS** Analog dimming photocell.

DEQ LC Distributed Controller, 0 -10VDC Remote Mount

SPECIFICATIONS

FUNCTIONAL

- Stand-Alone mode: Automatically dims lighting in response to photo-cell inputs. Switches lighting in response to occupancy sensor input.
- Network mode: Responds to commands sent from the Synergy system via the A4 network. Provides monitoring and control from the Synergy system.

ELECTRICAL

- Operating voltages: 24VDC, low-voltage Class 2.
- Optional Network wiring connections: One EIA-485 pair for data signal and two #16 AWG Class 2 conductors for power.
The **ONLY** approved cables are: (1) Synergy SYA CABLEA4 (includes all necessary conductors) or (1) Beldon 3105A or Synergy SYA CABLES2 plus (2) #16 AWG conductors. The network must be run in a daisy chain configuration, no T Taps or star configurations are permitted.

INSTALLATION

- Mounts above ceiling.

MOUNTING OPTIONS (MOUNTING BOX MUST BE GROUNDED. DO NOT USE PLASTIC BOXES)

- RECOMMENDED MOUNTING:
For maximum ease of installation due to the number of wiring connections needed, mount to Synergy SYRS 1GR or Steel City 52C13 one gang plaster ring attached to a **grounded** 4" square, 2-1/2" deep outlet box.
 - Mounting to single gang box is possible, BUT NOT RECOMMENDED
 - Mount to **grounded** Synergy SQRS 1GB (1 gang deep back box)
 - Mount to **grounded** Steel City GW-125-G one gang masonry box (1-7/8" minimum inside width, 2-1/2" minimum inside depth)

INPUTS

- One 0-10 VDC analog input per unit. Can be used with 0-10Vdc or 10-0Vdc photocells to provide ambient light level feedback in daylighting applications.
- One external switched input per unit. Can be used with Sensor Switch occupancy sensors to provide automatic ON/OFF control based on room occupancy. Can be configured for manual ON/automatic OFF or automatic ON/OFF operation.

OUTPUTS

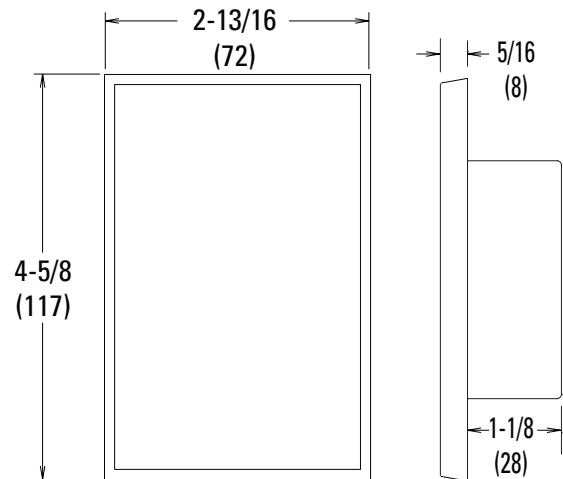
- Two 0-10 VDC analog ballast control outputs suitable for use with a maximum of 50 ballasts.
- Two switched outputs per unit. Can be used with PP20 power packs to provide line voltage ON/OFF control of lighting loads.

LISTING

- Class 2, low voltage device

DIMENSIONS

All dimensions are inches (millimeters).



DEQ LC Distributed Controller, 0 -10VDC Remote Mount

WIRING DIAGRAM

