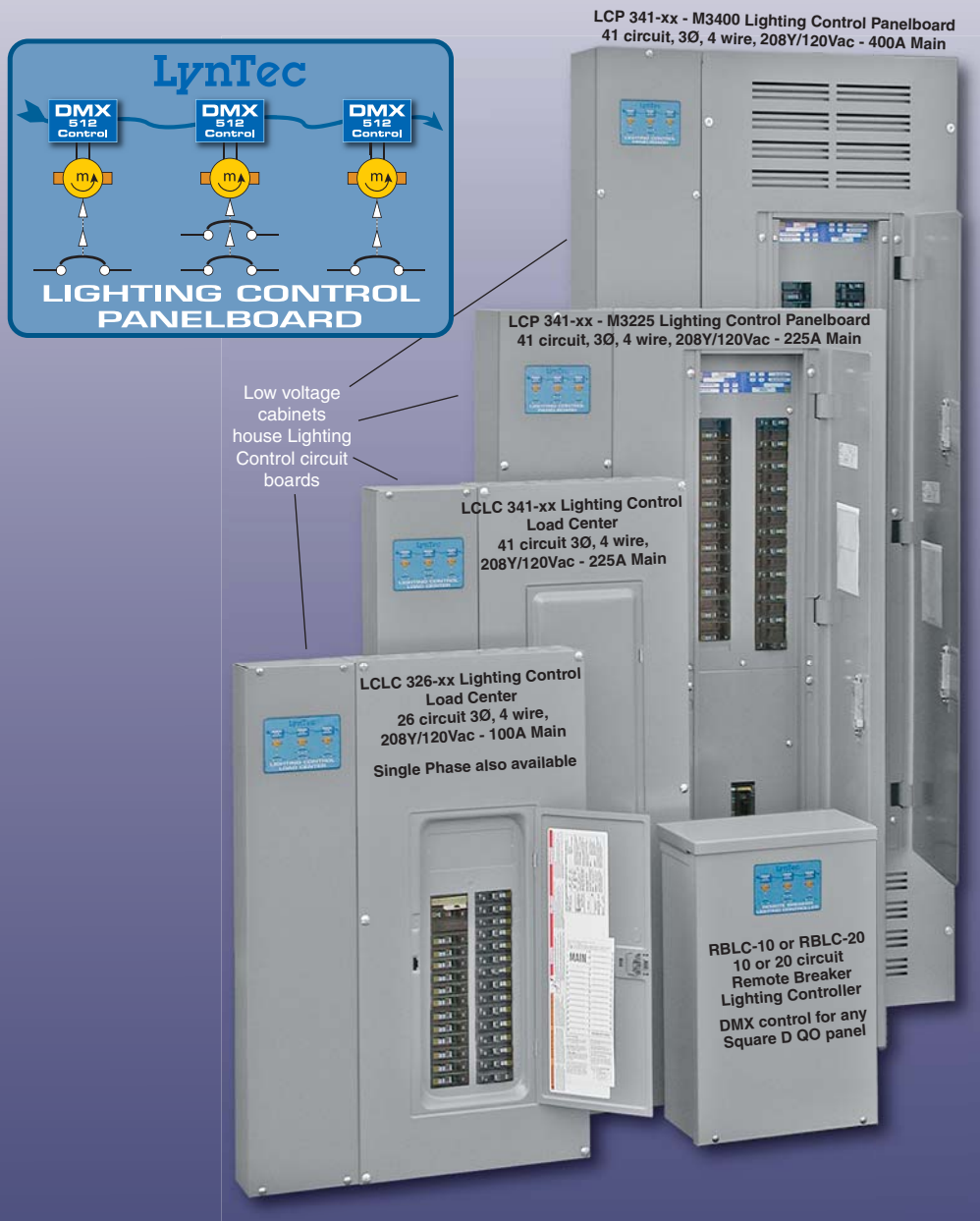


All non-dimmed lights need a power panel.

Now have as many DMX512 controlled circuits as you need in the same panel.  
You can mix DMX controlled, motorized branch breakers with standard QO breakers for a one-panel solution. LynTec DMX panels are modular and field expandable.



## LynTec

**LC series Lighting Control** panels add DMX addressable branch circuit control to the functions normally found in a Load Center or Panelboard.

### New!! Simplified Control Protocol

A simple jumper system allows the user to select the address of the first breaker and additional breakers are addressed consecutively.

The system uses only as many addresses as there are breakers.

Once addressed, individual breakers may be turned **ON**, **OFF**, or set to a **NO CHANGE** status.

All



**SQUARE D**

**Panels**

### BENEFITS of LynTec LC Lighting Control series Power Panels

- ✓ **Reduced installation labor — electrician friendly**
  - One wall-mounted, DMX controlled power panel feeds AC power to all un-dimmed circuits.
- ✓ **Low power consumption**
  - **BMB** (Bolt-on) and **MB** (Clip-on) series motorized circuit breakers require no holding current (like DC relays) or heat sinks (like solid state relays).  
*Runs cool — lasts long.*
  - Motorized breakers available in 15, 20 or 30 Amp — 1, 2 or 3 poles.
- ✓ **Multiple universe control**
  - Optional control of up to 5 universes depending on model.

### Who is LynTec?

Ask any sound contractor. Chances are, they'll tell you that LynTec pretty much wrote the book on remote controlled, sequencing power systems for the installed sound industry.

LynTec sequencing can be found in high-profile venues where reliable power control is mission critical. Stadiums, arenas and performing arts centers hosting national exposure events have been sequenced on and off by LynTec power panels for over 15 years.

Now, LynTec brings that same expertise to non-dimmed DMX power control.

Using the same proven panels and motorized circuit breakers, LynTec now offers a broad product line with a new DMX512 control system for lighting.

## LynTec — AVAILABLE MODELS — LynTec

### Panel electrical specifications and configurations — Outline dimensions

See  at [LynTec.com](http://LynTec.com) for *model specific* Design or Submittal PDFs.

## LOAD CENTERS

### LCLC 326-xx-Mxxx Lighting Control Load Center

3Ø, 208Y/120 Vac, 4 wire. — 100 Amp Main Breaker Standard

#### LynTec Lighting Control Load Center

##### MODEL NUMBERS

**LCLC 326-10-Mxxx**  
(Up to 10 DMX controlled circuits)

**LCLC 326-20-Mxxx**  
(Up to 20 DMX controlled circuits)

**LCLC 326-30-Mxxx**  
(Up to 26 DMX controlled circuits)

Square D QO327M100 Load Center  
with LynTec low-voltage sidecar.

Standard back-fed Main Breaker:

Squared D# QO3100VH. 100A,  
(VH = 22k AIR)  
[Amps Interrupt Rating]

Back-fed Main Breaker options

Part# suffix — **Bold face**=Amps

-M3030, -M3035: (10kAIR)

Square D# QO30xx

-M3050, -M3060, -M3070 or -M3090

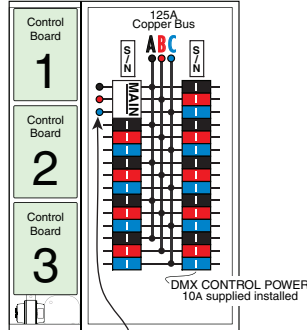
Squared D# QO3xxVH  
(all VH = 22k AIR)

Wire Sizes  
#4 - 2/0 Cu

Outside dimensions  
20.9" w., 29.8" h., 3.9" d.



Cabinet Outline — Surface mount only



**Main Lug Only -MLO option**  
Remove Back fed main and top  
feed as a MLO to gain 3 circuits.  
Feed from a protected disconnect.

Provides access to branch  
breaker positions 1, 3, & 5.

Model number becomes a

**LCLC 329-10-MLO**

(10 DMX controlled circuits)

**LCLC 329-20-MLO**

(20 DMX controlled circuits)

**LCLC 329-30-MLO**

(Up to 29 DMX controlled circuits)

(Holds up to 29 one pole breakers)

125 Amp. Panel Bus Rating

Wire size: #6 - 2/0 Cu

### LCLC 341-xx-Mxxx Lighting Control Load Center

3Ø, 208Y/120 Vac, 4 wire. — 225 Amp Main Breaker Standard

#### LynTec Lighting Control Load Center

##### MODEL NUMBERS

**LCLC 341-10-Mxxx**  
(Up to 10 DMX controlled circuits)

**LCLC 341-20-Mxxx**  
(Up to 20 DMX controlled circuits)

**LCLC 341-30-Mxxx**  
(Up to 30 DMX controlled circuits)

**LCLC 341-40-Mxxx**  
(Up to 40 DMX controlled circuits)

Square D QO342MQ225 Load Center  
with LynTec low-voltage sidecar.

Standard Main Breaker:

Square D# QDL32225. 225 Amp

Main Breaker options

Part# suffix — **Bold face**=Amps

-M3150, -M3175 or -M3200

Square D# QDL32xxx series  
(all 25k AIR) [Amps Interrupt Rating]

**LCLCH** option for 65k AIR Main Breaker  
Square D# QGL32xxx series

Wire Sizes

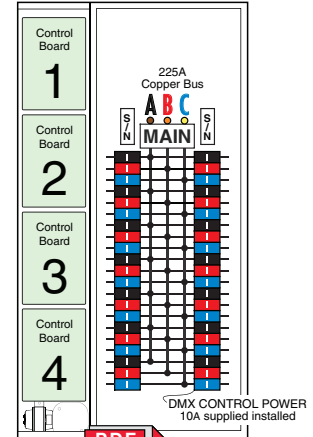
Main Breaker :

350 kcmil Al or 250 kcmil Cu.

100% Neutral has one feed lug  
1- 350 kcmil Al or 1- 250 kcmil Cu

Outside dimensions  
20.9" w., 39.3" h., 3.9" d

Cabinet Outline — Surface mount only



## PANELBOARDS

### LCP 341-xx-Mxxx Lighting Control Panelboard

3Ø, 208Y/120 Vac, 4 wire. — 225 Amp Main Breaker Standard

#### LynTec Lighting Control Panelboard

##### MODEL NUMBERS

**LCP 341-10-Mxxx**  
(Up to 10 DMX controlled circuits)

**LCP 341-20-Mxxx**  
(Up to 20 DMX controlled circuits)

**LCP 341-30-Mxxx**  
(Up to 30 DMX controlled circuits)

**LCP 341-40-Mxxx**  
(Up to 40 DMX controlled circuits)

**LCP 341-50-Mxxx**  
(Up to 41 DMX controlled circuits -  
limited by 42 circuit code rule)

Square D NQOD-NL MB Panel  
with LynTec low-voltage sidecar.

Standard **LCP-225A** Main Breaker:  
225 Amp. - 65k AIR - MJG36225

Square D MJG36xxx or MHG36xxx series  
(all 65k AIR) [Amps Interrupt Rating]

Main Breaker options

Part# suffix — **Bold face** = Amps

-MHG3125, -MJG3150, -MJG3175 or -MJG3200

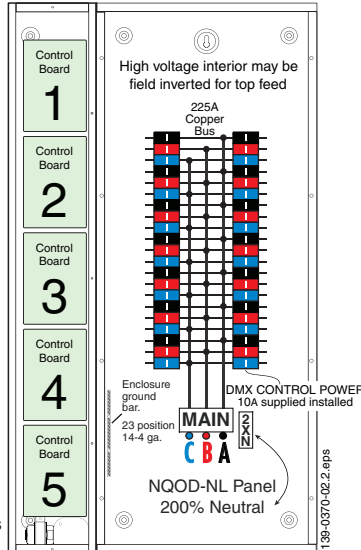
Wire Sizes

Main Breaker: 3/0 - 350 kcmil Al/Cu

200% Neutral has one feed lug that

accepts 2 - 250 kcmil Cu wires

Cabinet Outline — Surface mount only



Outside dimensions

28.06" w., 50" h., 6.13" d.

Knockout panels supplied in both ends



### LCP 341-xx-M400 Lighting Control Panelboard

3Ø, 208Y/120 Vac, 4 wire. — 400 Amp Main Breaker Standard

#### LynTec Lighting Control Panelboard

##### MODEL NUMBERS

**LCP 341-10-M400**  
(Up to 10 DMX controlled circuits)

**LCP 341-20-M400**  
(Up to 20 DMX controlled circuits)

**LCP 341-30-M400**  
(Up to 30 DMX controlled circuits)

**LCP 341-40-M400**  
(Up to 40 DMX controlled circuits)

**LCP 341-50-M400**  
(Up to 41 DMX controlled circuits -  
limited by 42 circuit code rule)

Square D NQOD MB Panel  
with LynTec low-voltage sidecar.

Standard **LCP 400A** Main Breaker:  
400 Amp. - 10k AIR - LA36400

[Amps Interrupt Rating]

Wire Sizes

Main Breaker: 1 #1- 600 kcmil Cu or

2 - #1-250 kcmil Cu (per NEC)

100% Neutral has one feed lug that

accepts one #1-750 kcmil

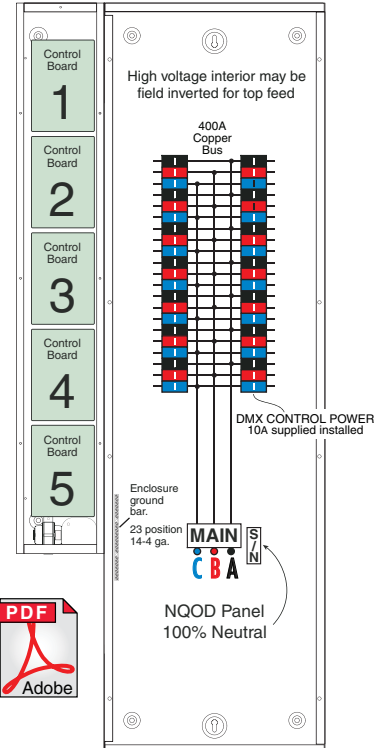
or two #1-300 kcmil Cu wires.

Outside dimensions:

28.06" w., 68.2" h., 6.13" d.

Knockout panels supplied in both ends

Cabinet Outline — Surface mount only



# Typical Panel Planner and Layout Worksheet — As-built door label

See  at [LynTec.com](http://LynTec.com) for *model specific* Panel Planners for submittals

## Planning and Layout Worksheet — As-built door label LynTec LCLC 326-xx Lighting Control Load Center

DMX controlled, AC power remote control for lighting circuits

Breaker types, sizes, positions and connections

Job \_\_\_\_\_

Panel \_\_\_\_\_

Comments \_\_\_\_\_

by \_\_\_\_\_ Date \_\_\_\_\_

Each motorized breaker is actuated by a command from a DMX control device.

As-built door label example:

The DMX # \_\_\_\_\_ is the DMX address of this breaker.

The board jumpers set the DMX address of the #1 position of the board.

Positions 2 to 10 are subsequent addresses. Example: #1 = 201, #2 to #10 = 202 to 210.

Bold line around box ☐ = **suggested** control board: #1 (Top), #2 or #3.

Fill in ☐ box to indicate which control board this breaker is connected to.

Transfer as-built information to the door.

Keep this sheet for as-built documentation.



Available as PDF download  
[www.lyntec.com/139-0376\\_LCLC326Plnr.pdf](http://www.lyntec.com/139-0376_LCLC326Plnr.pdf)

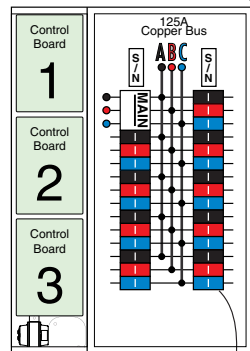
**LynTec**

**Lighting Control Load Center**

**LCLC 326-xx**

-xx = Maximum number of controlled breakers.  
See right side of page for model number for explanation.

Cabinet Outline — Surface mount only



Square D QO327M100 Load Center with LynTec low-voltage sidecar

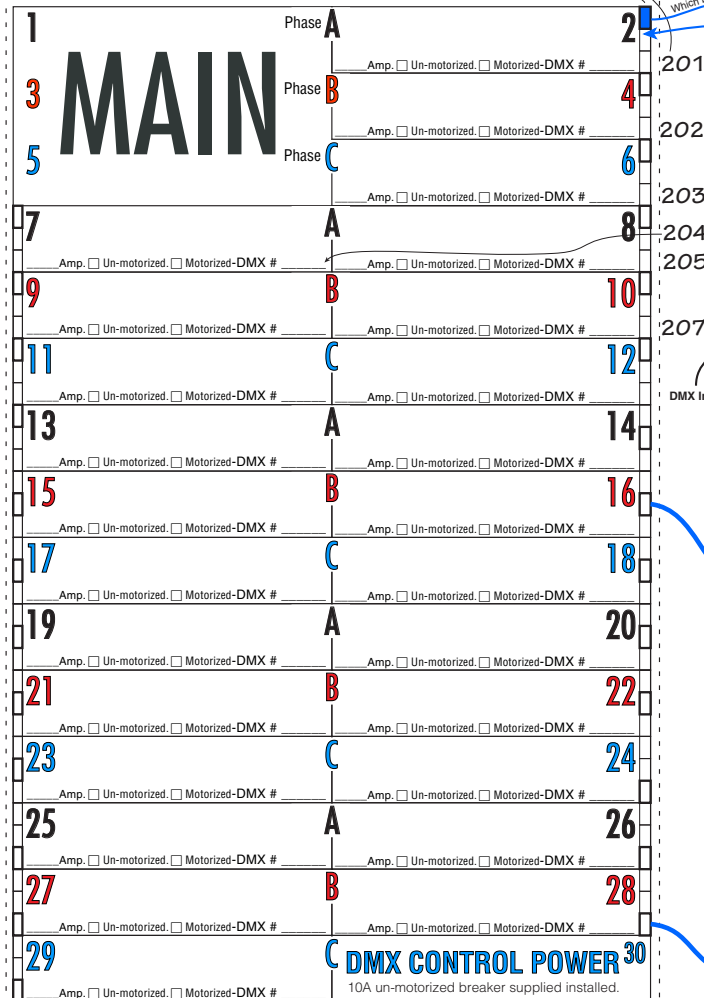
Standard back-fed Main Breaker QO3100VH. 100A, [VH = 22kAIR].  
Main options — Part# suffix

**BOLD FACE** = Amps  
-M3030, -M3035  
QO3xx [all 10kAIR]

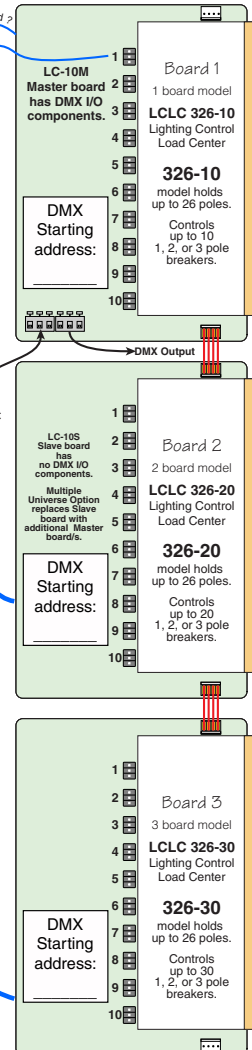
-M3050, -M3060, -3070, or -M3090  
QO3xxVH [all 22kAIR]  
[Amps Interrupt Rating]

Wire: #4 - 2/0 kcmil Cu

Outside Dimensions  
20.9" w., 29.8" h., 3.9" d.  
Surface mount only.



LC-10M Master & LC-10S Slave circuit boards in left-hand, low-voltage cabinet.



### How it works

The **DMX CONTROL POWER** circuit breaker powers the circuit boards via a 24 volt transformer.

Motorized circuit breakers (face-marked **REMOTELY OPERATED**) are individually actuated by a command from a remote DMX control device.

Each numbered LED indicates the status of that addressed breaker.

Lit = ON, Unlit = OFF  
Flashing = command execution in progress.

Each circuit board controls up to ten 1, 2 or 3 pole motorized circuit breakers.

Master and Slave boards are used depending upon the number of DMX universes served. (Slaves have no DMX input or output components).

DMX signals are fed to the Master board of each DMX universe system.

Power and DMX data are daisy-chain fed board-to-board by the yellow jumper connectors.

The **STARTING** DMX address is set for each board by jumpers.

The DMX Output is an optoisolated, Buffered, Loop-Thru for driving other DMX devices. Output data availability is indicated by a flickering LED.

### MANUAL CONTROL

The circuit breakers may be manually controlled by the TEST switches on each board.

The test switches work in the absence of a DMX signal. A valid DMX signal, indicated by a flashing **Receiving DMX** LED overrides the test switches.

[www.LynTec.com](http://www.LynTec.com)  
800-724-4047  
8-5 Central Time

### DMX PROTOCOL for LynTec LC series

Code Range (8 bit)	%	Circuit Function
0-63	0-24	Turns breaker off. When applied to all breakers simultaneously, they turn OFF at a .25 second step rate.
64-191	25-74	No change
192-255	75-100	Turns breaker on. When applied to all breakers simultaneously, they turn ON at a .25 second step rate.



## LC-10 DMX LIGHTING CONTROLLER boards

Numbered circuit LED  
Indicates status of breaker.  
Flashes during timed com-  
mand countdown.

Movable circuit jumpers set the  
DMX STARTING address.

It may be set to any address  
from 1 to 503.

Why 503? See **INVALID  
Address** example below.

**DMX ADDRESS SAVER**

At power-up, each board scans  
for connected breakers and  
uses only as many addresses  
as there are breakers attached.

If the breaker configuration is  
changed by adding, deleting or  
moving breakers, update the  
breaker status with a re-scan.

Cycle the **DMX CONTROL POWER**  
breaker off for at least 3 sec.  
to re-scan.

120 Ohm  
Input Termination  
resistor

Receiving DMX LED  
Flashes when a valid  
DMX signal is received.

MTA .156"  
DMX Input  
Test plug

Wago Cage-Clamp  
Input Terminals  
Press white levers toward  
board to insert stripped wire.

DMX Input  
Terminated

Buffered DMX Output  
Flickering LED indicates  
data presence.

Warning LED  
**Fast flash = Low line voltage**

**Slow flash = Invalid Address**  
(Set to **total** above 512).

Example: With a **STARTING  
address** set at 504 and  
10 breakers attached, the  
**total** would be 513, exceeding  
DMX512's capacity.

Lit Continuously =  
No breakers attached.

24v from  
transformer

**Lever-latch breaker plug**

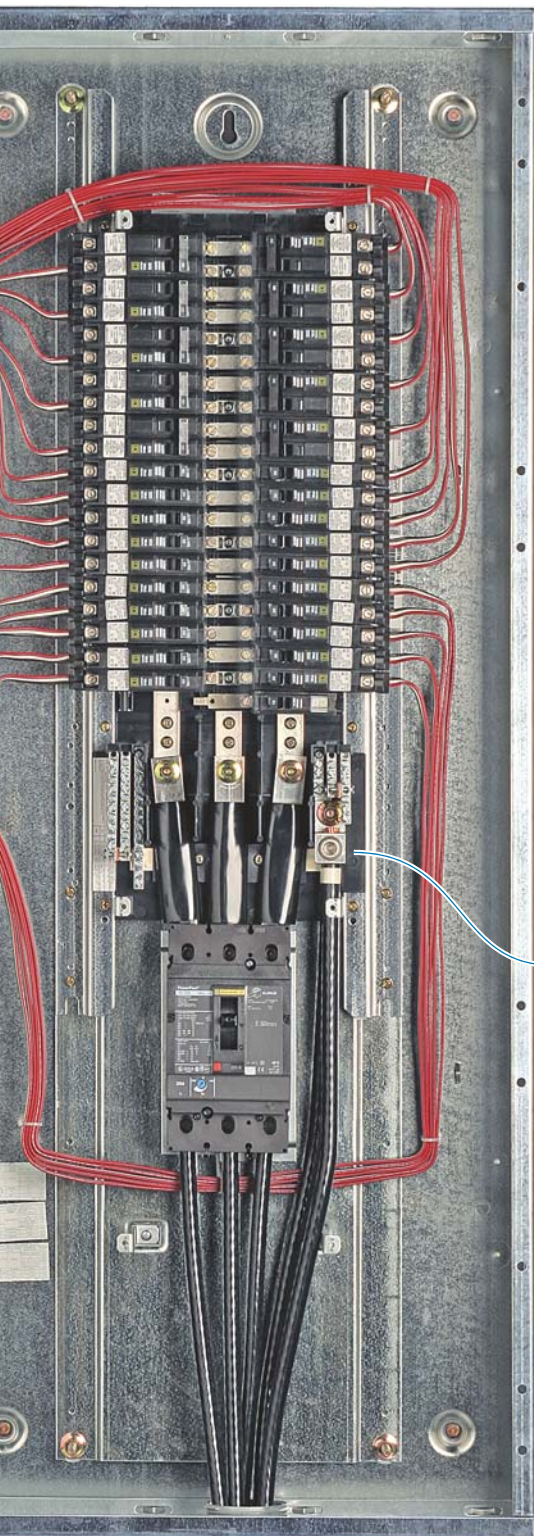
Open lever — Insert twisted wire.  
Snap lever closed.  
Spring tension clamps wire securely.

24v, 40VA  
power  
transformer  
Supplies  
DMX  
Control  
boards

Low Voltage  
DMX control sidecar



Model shown  
**LCP 341-30 20/20 10/220 -M225**  
Lighting Control Panelboard



Square D NQOD-NL  
Panelboard

For illustration,  
photos show branch  
breakers installed.

For full field  
flexibility, the branch  
breakers are  
supplied boxed,  
uninstalled.

10 - Lever-latch  
breaker plugs for  
the breaker-to-board  
connection are  
supplied, installed in  
each board.

24v, 40VA  
power  
transformer  
Supplies  
DMX  
Control  
boards

200%  
Neutrals  
standard  
in 225A  
Panelboard.

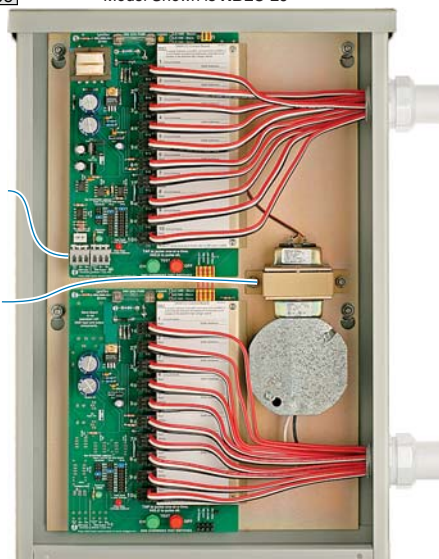


**RBLC-10 or RBLC-20**  
**Remote Breaker Lighting Controller**  
DMX controls up to 10 or 20  
1, 2 or 3 pole Motorized Circuit Breakers.

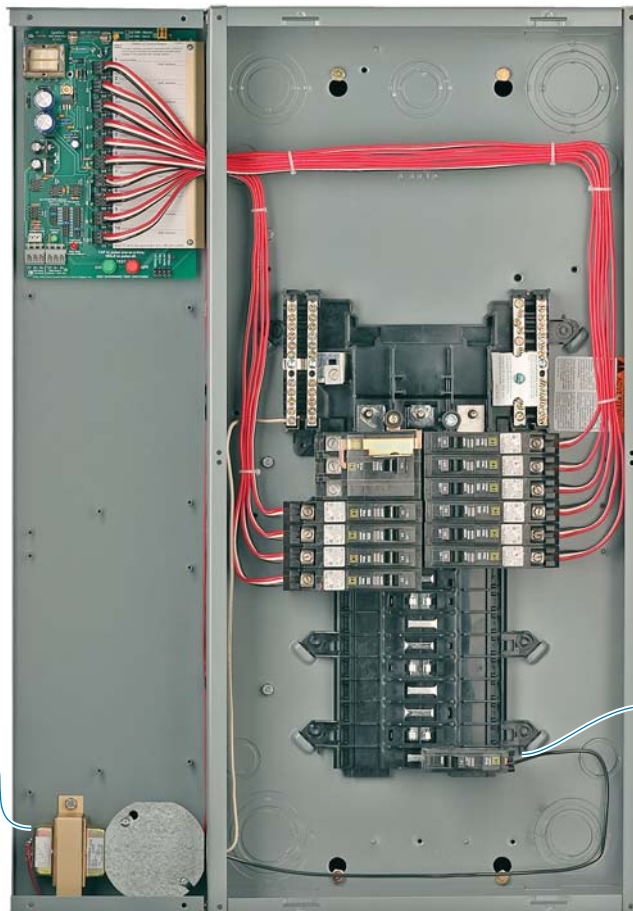
Model Shown is **RBLC-20**

DMX  
Input & Output

24v, 40VA  
power  
transformer  
Supplies  
DMX  
Control  
boards



Model shown  
**LCLC 326-10**  
Lighting Control Load Center



Low Voltage  
DMX control sidecar

Squared D QO327M100  
Load Center

Furnished 10 Amp  
unmotorized  
breaker supplies  
**DMX  
CONTROL  
POWER**  
to transformer.

Any **QO** series  
Square D  
Load Center  
or Panelboard.

Add **BMB** or **MB**  
series  
Motorized Breakers  
for  
Controlled circuits.

# Specifier's Guide for LynTec Lighting Control Panels

## Load Center and Panelboard part number explanation

Load Center — Panelboard — What's the difference?

**Panelboards** are the electrician's choice because they have 3 times the wiring space. Panelboards are used when bolt-on breakers, 200% neutrals or high circuit counts are required.

**Load Centers** are typically used where the circuit count isn't high, offering the lowest cost.

### Lighting Control Panelboards

**LCP 341- 30 -2U -MJG3200**

**341** Number of available single pole circuit breaker spaces  
3 = 3 phase 208/120v, 4 wire

**30** Control board capacity—will drive up to this number of 1, 2 or 3 pole motorized breakers

**2U** number of DMX512 Universes

**-MJG3200** -Main breaker & -Main Lug Only options SEE BELOW

### 3 Phase Panelboards

#### 400 A Panelboard

The standard LCP 341-xx-M400 has a LA36400, 3 pole, 400 Amp main breaker (115 kVA). 10kAIR [Amps Interrupt Rating]. Optional main breakers — call for price and delivery.

-MLO (Main Lug Only) is an option.

#### 225 A Panelboard

The standard LCP 341-xx has a JGP36225, 3 pole, 225 Amp main breaker (65 kVA). 65k AIR [Amps Interrupt Rating].

Optional main breakers [All 65kAIR]

125A ..... -MHG3125 (36 kVA transformer)

150A ..... -MJG3150 (45 kVA)

175A ..... -MJG3175 (50 kVA)

200A ..... -MJG3200 (60 kVA)

-MLO (Main Lug Only) is an option.

Panelboard  
A&E Specs

[PDF format](#)

[Word format](#)

### Multiple DMX512 Universe Option

LynTec Lighting Control panels have the option of multiple universe control. All LC-10 boards service up to 10 - one, two or three pole motorized breakers. The first/top control board is always a LC-10M Master board. The Master board has the opto-isolated DMX512 input and opto-isolated, buffered, feed-thru output components.

In a standard one-universe system, the subsequent boards are slaves. The lower-cost, LC-10S Slave boards have their own starting address, but derive their opto-isolated DMX data from the Master board above.

When multiple universes are desired, two or more LC-10M Master boards are supplied.

Each universe requires a Master board. Any Master may have one or more subsequent slaves. See page 3 for possible board counts in each type panel.

*Please include Branch Breakers to complete your specification.*

### Lighting Control Load Centers

**LCLCH 341- 30 -2U -MQD3200**

▲ **H option**  
65k AIR  
Main Breaker.  
Amps Interrupt Rating  
(Available only on 341)

**341** Number of available single pole circuit breaker spaces

**30** Control board capacity—will drive up to this number of 1, 2 or 3 pole motorized breakers

**2U** number of DMX512 Universes

**-MQD3200** -Main breaker & -Main Lug Only options >>>>>>

3 = 3 phase 208/120v, 4 wire

Load Center  
A&E Specs

[PDF format](#)

[Word format](#)

### Load Center Main Breaker Options

#### Large 3 Phase Load Center

The standard LCLC 341-xx has a factory installed, 3 pole, 225 Amp main breaker (65 kVA transformer) [25kAIR Amps Interrupt Rating].

Optional main breakers [All 65kAIR]

150A ..... -MQD3150 (45 kVA)

175A ..... -MQD3175 (50 kVA)

200A ..... -MQD3200 (60 kVA)

-MLO (Main Lug Only) option:

We only stock LCLC panels with main breakers. If your specification requires a -MLO we will provide it at the same price as the standard panel.

#### ▲ Higher Interrupt Current Option

LoadCenter: QGL32xxx series 65k AIR main breaker— 150,175, 200 or 225A

Add the **H** to the model type. Example: LCLCH 341.

#### Small 3 Phase Load Center

The standard LCLC 326-xx has a bracket-retained, clip-on, back-fed, 3 pole, 100 Amp main breaker.

Optional main breaker sizes available:

⊗ 30A ..... -M3030 (7.5 kVA transformer)

⊗ 35A ..... -M3035 (10 kVA)

⊕ 50A ..... -M3050 (15 kVA)

⊕ 70A ..... -M3070 (20 kVA)

⊕ 90A ..... -M3090 (25 kVA)

⊗ 30A & 35A: 10kAIR

⊕ 50A up: 22kAIR (Amps Interrupt Rating)



### RBLC-10 or RBLC-20

10 or 20 circuit  
Remote Breaker Lighting Controller

Provides DMX control for any Square D QO panel by using BMB or MB breakers.



# The UL listed heart of the LynTec Lighting Control and Sound Sequencing Panels

Handle functions as a normal circuit breaker.

When switched off or tripped due to overload, the remote control will not turn on power.

When in the normal ON position, the motorized remote control will turn it off and on.

The motor does not move the handle... it only opens or closes the high current contacts.

Snap on clip with heavy steel force spring. Contact is held tightly in place on panel bus feeder finger.

Under high current stress, magnetic forces actually increase contact pressure.

Also available in Bolt-on versions for Panelboards only.

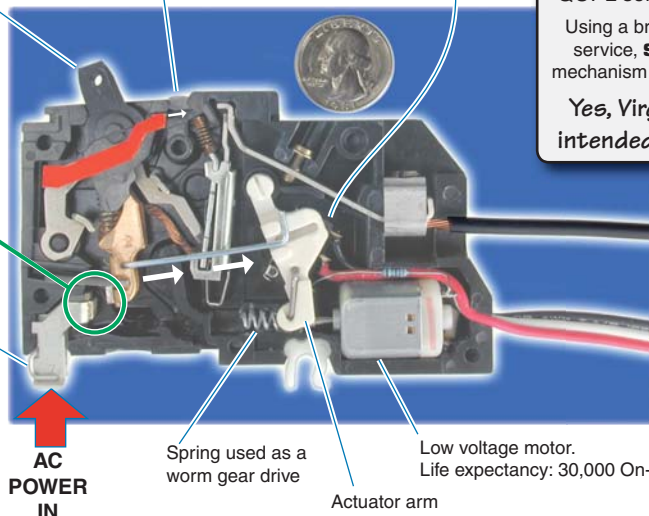
Red flag snaps into window when circuit breaker is tripped.

Microswitch, behind Actuator arm, opens motor circuit at end of transition.

The time-proven **SQUARE D** QOPL series motorized circuit breaker.

Using a breaker proven in over 20 years of service, **SQUARE D** added a motor mechanism in 1986 to provide remote control.

**Yes, Virginia, some breakers are intended to be used as switches!**



**Controlled AC  
POWER OUT**

3 wire, low-voltage, 60" pigtail with 600 volt insulation. Connects to Lighting Controller in low voltage cabinet.

**AC  
POWER  
IN**

Spring used as a worm gear drive

Low voltage motor. Life expectancy: 30,000 On-Off operations. Actuator arm

**Field installed, UL & CSA listed, motorized circuit breakers are required to complete the Lighting Control Panel or Sequencing Panel package.**

**BLUE TYPE = Bolt-on breakers for Panelboards ONLY — Clip-on breakers fit Load Centers or Panelboards**

**BMB-15 ..... Bolt-on Motorized Breaker, Square D #QOB115PL-5393**

**MB-15 ..... Clip-on Motorized Breaker, Square D #QO115PL-5393**  
One pole, 15 Amps. Special 60" leads. Square D trip curve: 730-4

**BMB-20 ..... Bolt-on Motorized Breaker, Square D #QOB120PL-5393**

**MB-20 ..... Clip-on Motorized Breaker, Square D #QO120PL-5393**  
One pole, 20 Amps. Special 60" leads. Square D trip curve: 730-4  
15 and 20 Amp breakers have a HM, (High Magnetic) rating. HM reduces nuisance breaker trips on high inrush loads.

**BMB-220 ..... Bolt-on Motorized Breaker, Square D #QOB220PL-5393**

**MB-220 ..... Clip-on Motorized Breaker, Square D #QO220PL-5393**  
Two pole, 20 Amps. Special 60" leads. Square D trip curve: 730-4  
15 and 20 Amp breakers have a HM, (High Magnetic) rating. HM reduces nuisance breaker trips on high inrush loads.

**BMB-30 ..... Bolt-on Motorized Breaker, Square D #QOB130PL-5393**

**MB-30 ..... Clip-on Motorized Breaker, Square D #QO130PL-5393**  
One pole, 30 Amps. Special 60" leads. Square D trip curve: 730-5

**BMB-230 ..... Bolt-on Motorized Breaker, Square D #QOB230PL-5393**

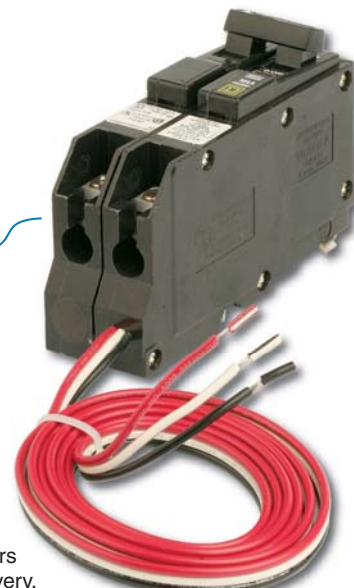
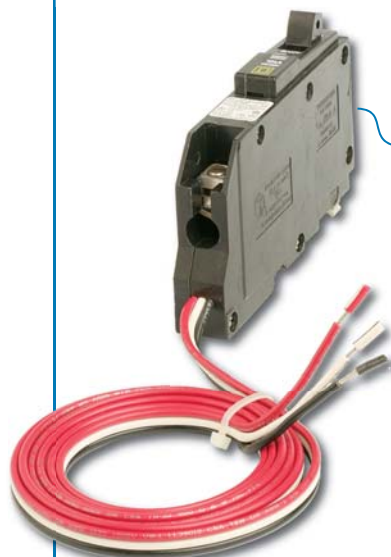
**MB-230 ..... Clip-on Motorized Breaker, Square D #QO230PL-5393**  
Two pole, 30 Amps. Special 60" leads. Square D trip curve: 730-5

2 pole 30A, 40A and 60A and 3 pole Bolt-on and Clip-on Motorized Breakers are also available on special order. — Call 800-724-4047 for price and delivery.

**UnMotorized circuit breakers for un-controlled circuits**

**BUMB-10, -15, -20 or -30** are Bolt-on, 10, 15, 20 or 30 amp single pole. Square D QOB110, QOB115HM, QOB120HM or QOB130. — 15s & 20s are High Magnetic.

**UMB-10, -15, -20 or -30** are Clip-on, 10, 15, 20 or 30 amp single pole. Square D QO110, QO115HM, QO120HM or QO130. — 15s & 20s are High Magnetic.



**Circuits controlled by one or more LC-10 Lighting Control boards**

Each LC-10 board has 10 drivers capable of driving one 1, 2 or 3 pole BMB or MB series motorized circuit breakers. Each breaker has its own individual DMX512 address. The motorized breakers may be located in any open slot in the panel.

**Bold face type** = legends printed on LC-10 boards.

**STARTING address**

The **STARTING address** is field programmed by installing push-on jumpers.

Each board has a starting DMX address which is typically set between 1 and 503. Subsequent addresses are automatically assigned as needed, determined by how many breakers are attached to the board.

**ADDRESS SAVER**

To conserve DMX addresses, the LC-10 board only assigns subsequent addresses for breakers it locates at power-up. At power-up, the board scans and pulses all breaker connectors from 1 to 10. Each breaker load found is assigned the next subsequent address regardless of its numerical position.

Empty connectors are skipped to save addresses.

**EXAMPLE**

If the **STARTING address** were set at 301, the number 1 position would be DMX address 301.

If the second connector had no breaker connected, it wouldn't draw any control current during the power-up scan. It would be skipped and wouldn't be assigned a DMX address.

The third and fourth connectors have breakers and would be assigned DMX addresses 302 and 303.

To avoid confusion, we would suggest that you not leave spaces except after the last connected breaker. Then your **existing** breaker DMX addresses won't change if you add a breaker. In the above example, if you were to plug a breaker into the empty #2 position and re-scan, those breakers that had addresses 302 and 303, would be **reassigned** new addresses of 303 and 304 for your convenience and amazement.

**NOTE**

If a breaker is plugged into a connector **after** power-up it will be ignored until a new power-up scan is run by cycling the DMX CONTROL POWER breaker off for at least 3 seconds.

**Indicator LEDs****Amber POWER LED**

Power to each LC-10 circuit board is indicated by the amber **POWER LED**.

**Numbered Green LEDs, 1 - 10**

**Green** numbered LEDs, adjacent to each breaker connector, light when the circuit breaker motor has been pulsed on. When a "delayed Off command" is executing, the breaker's LED will flash.

**Red warning LED****Low Voltage, INVALID address or No Breakers Attached**

**Low Voltage** = A fast red flash indicates AC line voltage is below 105 VAC - No DMX reception or execution.

**INVALID address** = A slow (1 Hz) red flash indicates an invalid address setting **totaling** of more than 512.

Example: With a **STARTING address** set at 504 and 10 breakers attached, the **total** would be 513, exceeding DMX512's capacity.

**No Breakers Attached** = A continuously lit red LED indicates no breakers were found at the time of the power-up scan.

**Green Receiving DMX LED**

When the **Receiving DMX LED** is flashing, the system is active and ready to execute DMX commands. The **Receiving DMX LED** *stays* lit during command execution.

**Green DMX Output LED**

Flickering LED indicates data presence at the Buffered DMX Output.

**Brown-out protection**

Five seconds after power stabilizes above 105 volts, the board begins receiving DMX signals indicated by a flashing green **Receiving DMX LED**. When the Receiving DMX LED is flashing, the system is ready to execute DMX commands. A **fast** flashing red LED indicates the power hasn't been above 105 volts for the last 5 seconds and the controller is waiting for the power to stabilize before resuming DMX reception.

**Motorized Circuit Breaker Low Voltage Connections**

Each motorized breaker derives its control power through a 60" - 3 conductor wire. This low voltage, 600 volt insulated, cable is field connected to the Lever-latch 3 pin plugs. The Lever-latch plugs fit into numbered receptacles on the circuit board/s.

**DMX CONTROL POWER**

The DMX CONTROL POWER circuit breaker, mounted in the lower right position in the high voltage section of the panel, is connected to a UL listed 120v to 24v, 40 VA transformer mounted inside the low voltage cabinet.

This 10 amp un-motorized breaker should be left on continuously. This circuit breaker is used as an approved, switchable connection method to the high voltage. The **UL** & **ULc** listed transformer is impedance protected with an internal thermal fuse.

Each sequencer board is protected by an on-board 3AG 3/4 amp fuse.

Power required: 50/60 Hz, 6.5 watts per board with 10 breakers in the on condition. 33 watts maximum per panel.

**DMX PROTOCOL for LynTec LC series**

Code Range (8 bit)	%	Circuit Function
0-63	0-24	Turns breaker off. When applied to all breakers simultaneously, they turn OFF at a .25 second step rate.
64-191	25-74	No change
192-255	75-100	Turns breaker on. When applied to all breakers simultaneously, they turn ON at a .25 second step rate.

**ARCHITECTS & ENGINEERS SPECIFICATIONS**

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In the interest of product improvement, specifications are subject to change without notice — see web site for the most current data.

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LynTec, Inc. • 8401 Melrose Drive • Lenexa, KS 66214 (a Kansas City suburb)

Voice **800-724-4047** • 913-529-2233 • Fax **888-722-4157** • 913-529-4157