Specification Sheet

CBX™

CONTROL BOX FOR LINE VOLTAGE FIXTURES

Client _____ **Project name** _____

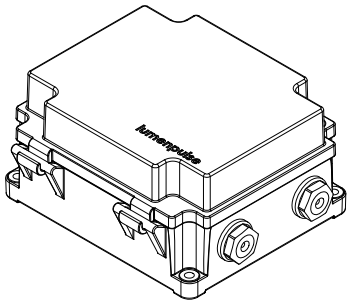
Order# _____ **Type** _____ **Qty** _____

Physical :

- Die-cast aluminum enclosure
- Two compartments: base for connections and cover for electronics
- Wall partition for separation of circuits
- Hinged cover with safety cable
- Electro-statically applied polyester powder coat finish
- Data input, 1/2" provision holes for 1/2" NPT, PG16 or 20mm
- Power input, 1/2" provision holes for 1/2" NPT, PG16 or 20mm
- Up to six outputs, 1/2" provision holes for 1/2" NPT, PG16 or 20mm
- Mounting detail on the bottom of the box
- TX & RX indicator LED lights for troubleshooting
- Onboard data termination switch
- Onboard test button
- Operating temperatures: -25°C to 50°C [-13F to 122F]
- Storage temperatures: -40°C to 85°C [-40F to 185F]
- Weight: small housing - 1.70 kg / 3.75 lbs, large housing - 3.61 kg / 7.95 lbs
- Suitable for indoor and outdoor applications, IP66
- Meets 3G ANSI C136.31 Vibration standard for bridge applications
- Optional corrosion-resistant coating for hostile environments*

Electrical :

- 100 to 347V input
- DMX/RDM or DMX & Ethernet enabled

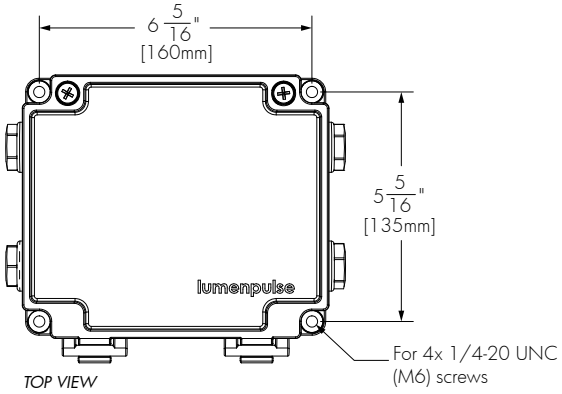


*UL listed watertight strain relief connectors and cables by others.

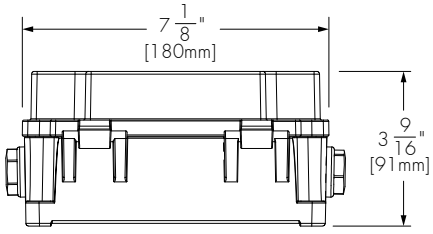
Seal all possible water entry points with RTV silicone (pressure glands, conduit). Sealing compound by others.

Related Products:

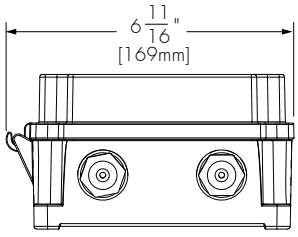
DMX dimming, Dynamic White and Color Changing for:
Lumenbeam Family
Lumenfacade Family
Lumencove Family
Lumenline Family



TOP VIEW



FRONT VIEW
SMALL HOUSING SHOWN (CBX-DS, 100-277V configuration)



SIDE VIEW

* Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure!

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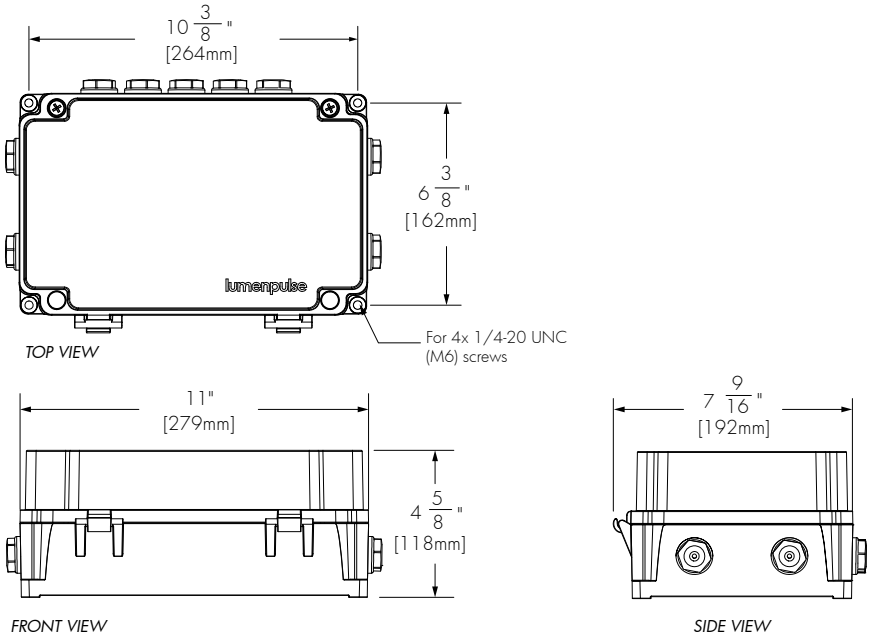
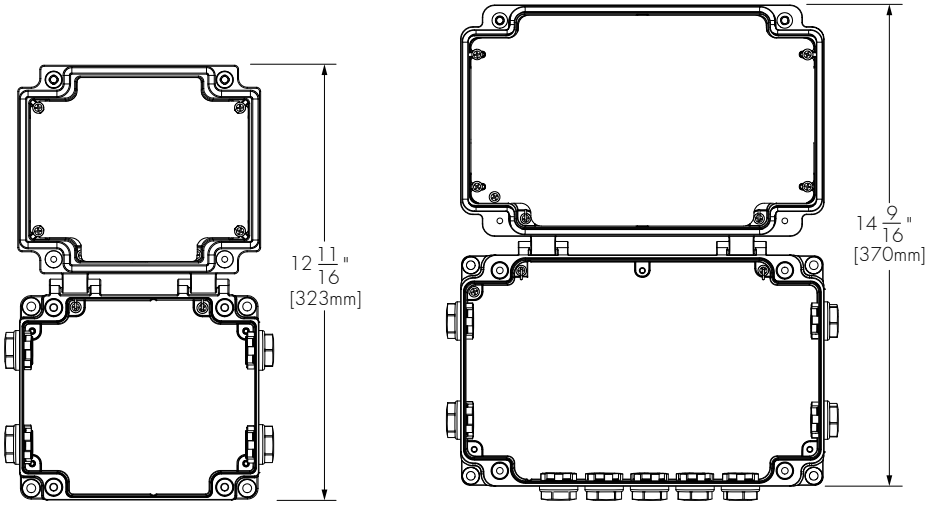
Specification Sheet

DIMENSIONS - LARGE HOUSING

CBX-DS 347V, CBX-ST 100-347V



DIMENSIONS - OPEN HOUSING



SMALL HOUSING

DS - Daisy Chain Configuration, 100-277V

LARGE HOUSING

DS - Daisy Chain Configuration, 347V
ST - Star Configuration, 100-347V

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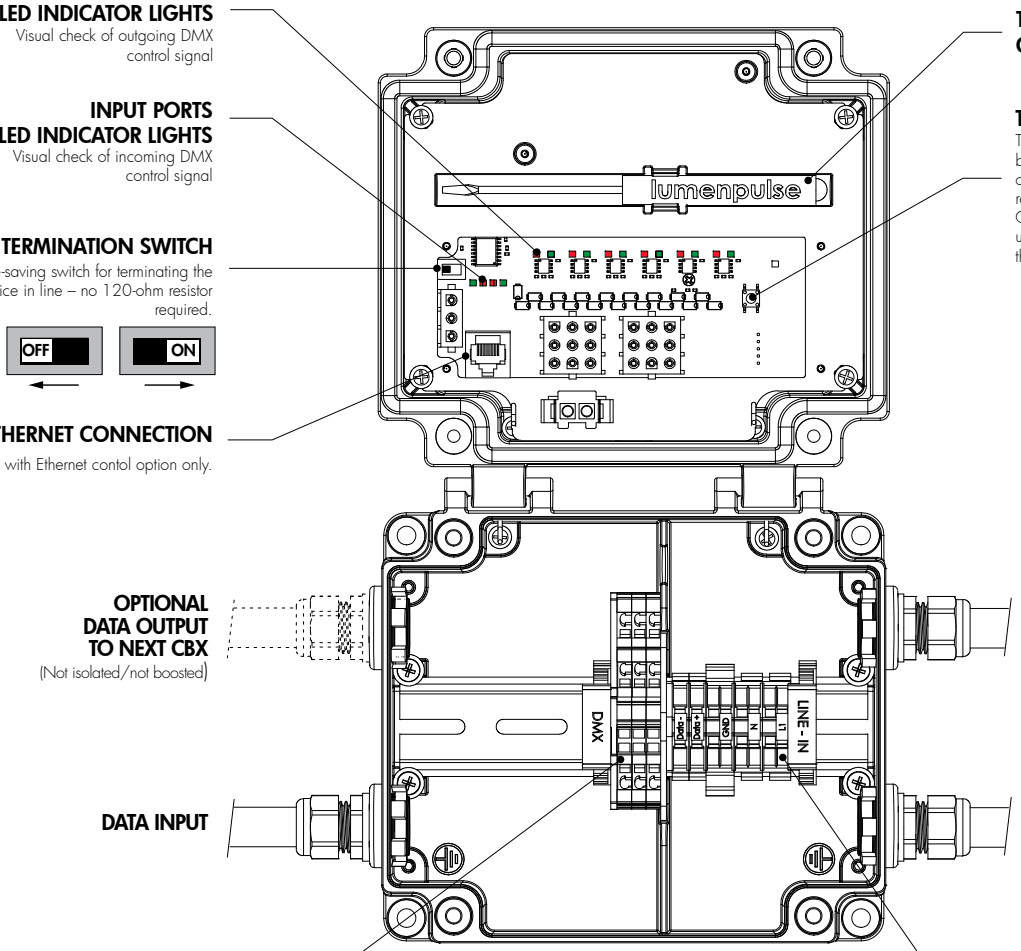
INPUT AND OUTPUT DETAILS

CBX-DS, 100-277V CONFIGURATION



OUTPUT PORTS LED INDICATOR LIGHTS
Visual check of outgoing DMX control signal

INPUT PORTS LED INDICATOR LIGHTS
Visual check of incoming DMX control signal

TERMINATION SWITCH
Simple, time-saving switch for terminating the last device in line – no 120-ohm resistor required.

ETHERNET CONNECTION
Enabled with Ethernet contol option only.

OPTIONAL DATA OUTPUT TO NEXT CBX
(Not isolated/not boosted)

DATA INPUT

TERMINAL BLOCKS (DATA INPUT)
Wire gauge range: 24-16AWG [0.205-1.307mm²]

TOOL FOR CONNECTOR OPERATION

TEST BUTTON
Test fixtures with a simple button press that broadcasts a dynamic show to all of the fixtures on the line – with no programmer or console required.
Once all fixtures are confirmed operational, the user can simply press the test button again and the test show will turn off.

POWER INPUT (100-277V)

POWER & DATA OUTPUT TO FIXTURE 5C/CABLE
(Maximum of (4x) cascading control boxes per installation, isolated)

TERMINAL BLOCKS (POWER INPUT/ DATA OUTPUT)
Recommended wire gauge : 16 AWG [1.307mm²]
Range: 20-12 AWG [0.519-3.301mm²]

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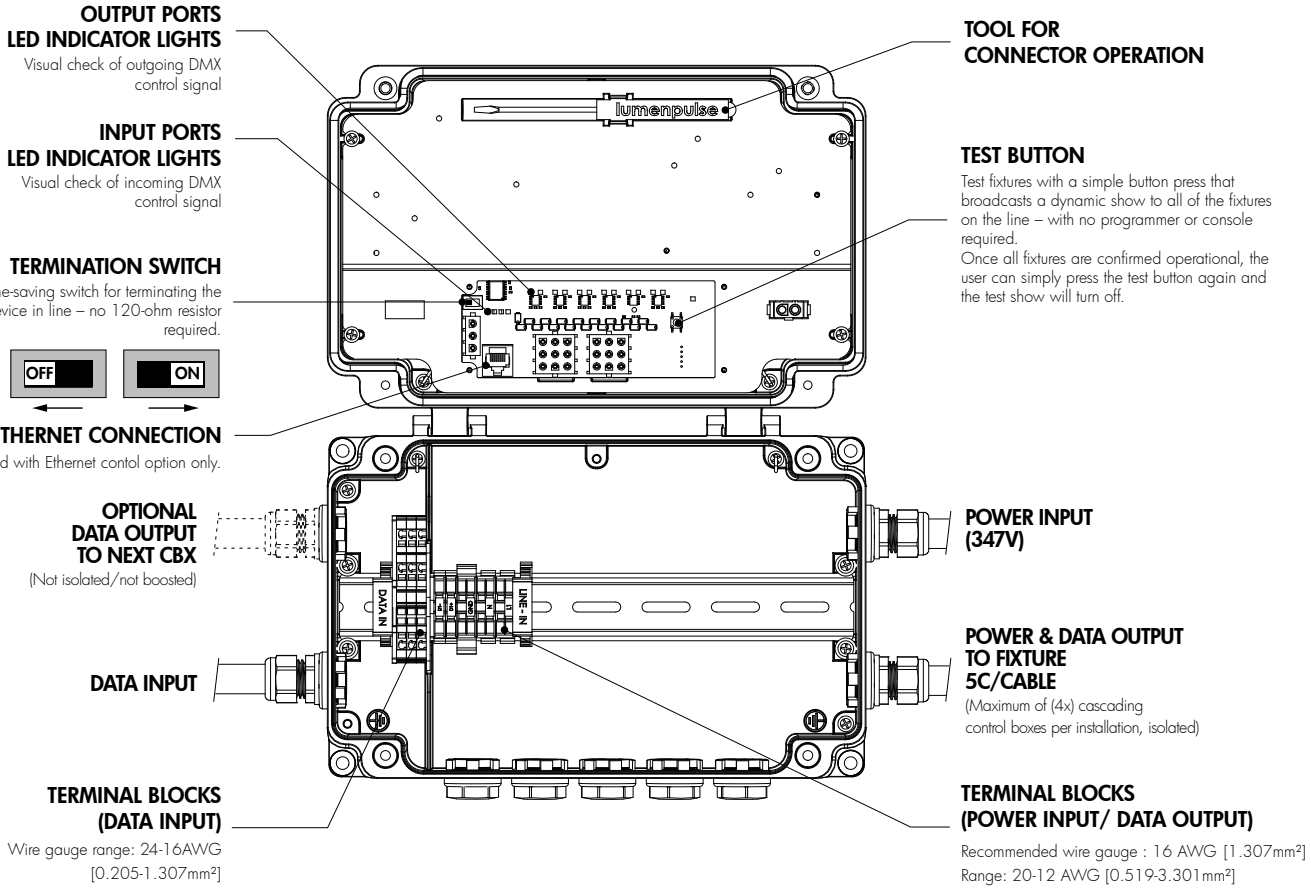
INPUT AND OUTPUT DETAILS - continued

CBX-DS, 347V CONFIGURATION



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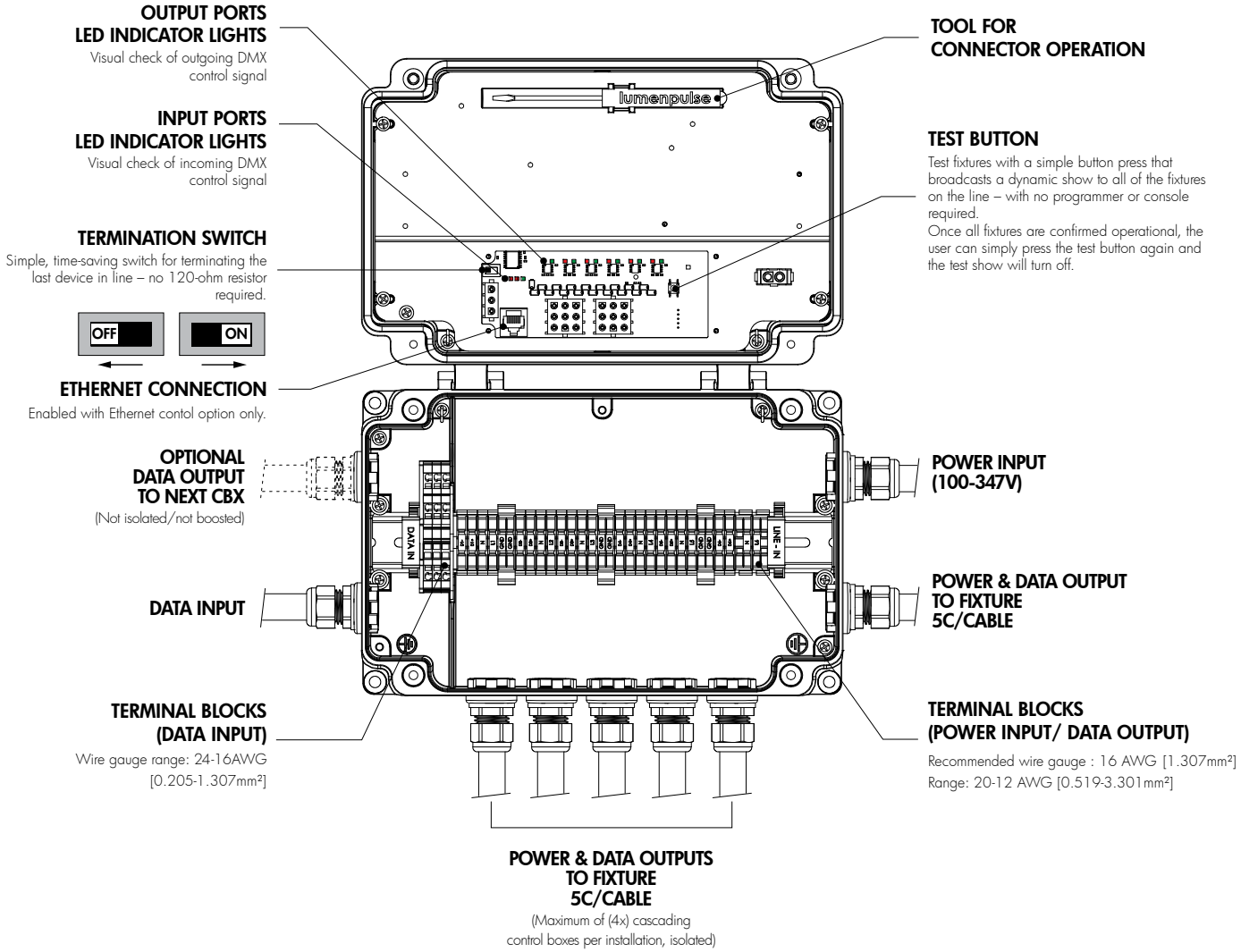
INPUT AND OUTPUT DETAILS - continued

CBX-ST, 100-347V CONFIGURATION



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HOW TO ORDER

CBX- **Select:** | **Select:** | **Select:** | **Select:** | **Select:**

1 2 3 4 5

1

Housing:

CBX-DS - Power and Control box, Daisy Chain Configuration (1output)
CBX-ST - Power and Control box, Star Configuration (Up to 6 outputs)

2

Voltage Input:

100 - 100 volts
120 - 120 volts
208 - 208 volts
220 - 220 volts
240 - 240 volts
277 - 277 volts
347 - 347 volts[1]

3

Control:

DMX/RDM - DMX/RDM enabled
ETH - DMX & Ethernet enabled

4

Finish:

BK - Black Sandtex
BRZ - Bronze Sandtex
SI - Silver Sandtex
WH - Smooth white
CC - Custom color and finish (please specify RAL color)[2]

5

Option:

CRC - Corrosion-resistant coating for hostile environments

Related Products:

DMX dimming, Dynamic White and Color Changing in Lumenbeam, Lumenfacade, Lumencove and Lumenline families.

Notes:

[1] Consult fixture specification sheets for 347V availability. [2] North American RAL colors specified with RAL number only are provided with a smooth/high-gloss finish. Please consult factory for other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.

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