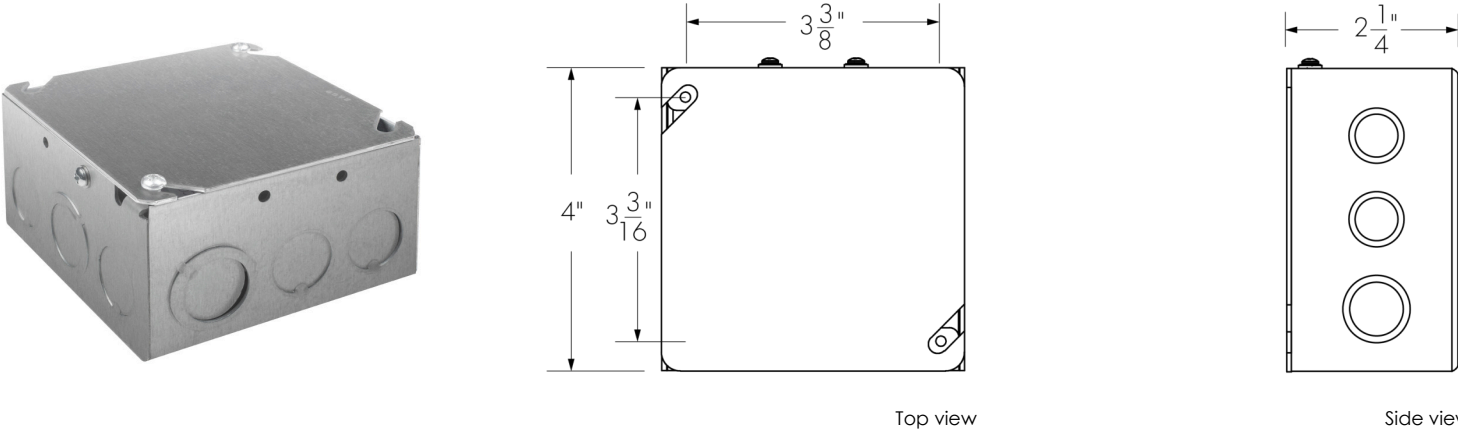


Project Name

Qty

Type

Catalog / Part Number



Input control signals

0-10V  DALI

Output control signals

0-10V 

Required components (by others)

- Cables
- Listed strain relief connectors

Lumencycle™ Program



Certifications



Description

The Lumenpulse Smart Data Bridge is a multi-protocol data converter that allows you to pair luminaires with a wide range of control devices and protocols. Easy to integrate, with wiring for power and data inputs and outputs, the Smart Data Bridge allows for simple conversion of 0-10V Sink/Source, DMX and DALI input control and dimming signals to 0-10V Sink/Source and DMX output.

Features

Housing	Dual gang box
Warranty	5-year limited warranty
Physical	
Housing Material	Galvanized metal
Weight	1.5 lbs
Mounting	Standard electrical box mounting

Electrical and Control

Input Voltage	100 to 277 volts
Power Input	1/2" provision hole for 1/2" NPT, PG16 or 20mm
Output	1/2" provision hole for 1/2" NPT, PG16 or 20mm
Input Control Signal	0-10V Sink/Source dimming (auto-sensing 0-10V Sink/Source device, 3mA current), DXM/RDM control, DALI dimming Type 6
Output Control Signal	0-10V Sink/Source dimming, DXM/RDM control

Environmental

Storage Temperature	-40 °F to 185 °F
Start-up Temperature	-13 °F to 122 °F
Operating Temperature	-13 °F to 122 °F

Environment	Indoor applications only
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Important

Virtual Patent Marking Notice

This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Lumencycle™ Program

Lumencycle is a comprehensive program designed to maximize the life of Lumenpulse fixtures while preserving their performance, quality, and design intent. Built around three pillars—Repair, Restore, and Recycle—the program provides clear pathways to maintain existing installations, restore fixtures, and responsibly manage them at end of life. For full program details, visit <https://www.lumenpulse.com/lumencycle>.

Typical Wiring Diagrams (Refer to Installation Instructions for Additional Wiring Details)

Wiring Color Code

UL Color Code	USE
Green	Ground
Black	Line
White	Neutral
Red/Purple	0-10V / Data +
Orange	0-10V / Data -

Typical Wiring Diagrams

0-10V Sink/ Source Output

Input Control Signal	Output Control Signal
0-10V or DMX or DALI	0-10V Sink/Source

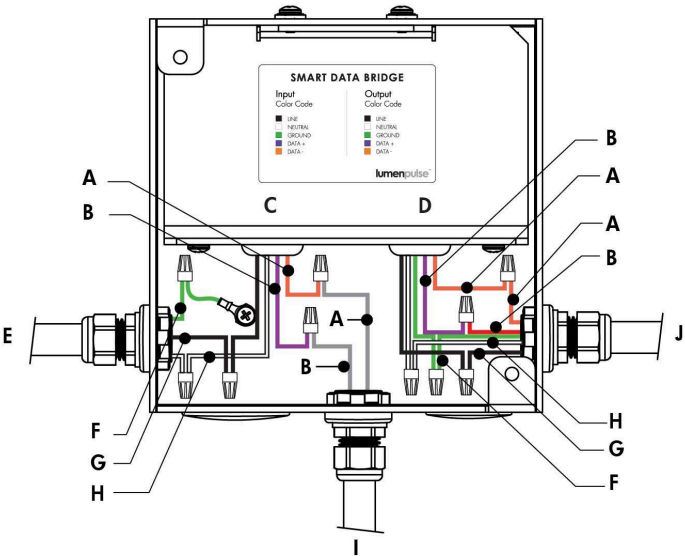
Recommended for the conversion of 0-10V Sink/Source, or DMX or DALI control of 0-10V fixtures

DMX Output

Input Control Signal	Output Control Signal
0-10V or DALI	DMX

Recommended for 0-10V or DALI control of DMX fixtures.

Typical Layout



- A - Data -
- B - Data +
- C - Input
- D - Output
- E - Line input (to match fixture specified voltage, wiring by others)
- F - Ground
- G - Line
- H - Neutral
- I - Data input from controller (by others)
- J - Power and data output to fixture (4 or 5 conductor cable)

How to Order

Housing	Input Voltage	Certification	Input Control Signal	Output Control Signal
SDB Smart Data Bridge ⁽¹⁾	100 100 Volts	UL UL Compliant	010SI 0-10V Sink/Source dimming DMX DXM/RDM control ⁽²⁾ DALI DALI dimming Type 6	010SO 0-10V Sink/Source dimming DMX DXM/RDM control ⁽²⁾
	120 120 volts			
	220 220 Volts			
	208 208 volts			
	240 240 volts			
	277 277 volts			

Notes:

1. Data protocol converter that converts a 0-10V Sink/Source, DMX or DALI signal to a 0-10V Sink/Source or DMX control output.
2. DMX input and output control signals cannot be combined.