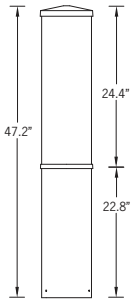
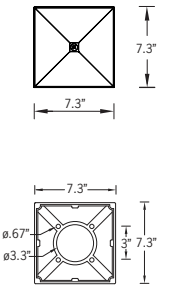
FS-USM-10701-RGBW

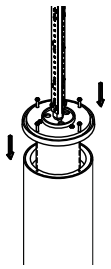
Smith Square Bollard

38w LED 4234 Lumens
IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)
Weight 21.1 lbs





Mounting Detail



Standard Internal Waterproof Driver Housing

Construction

Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
Contact Factory

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.
Rated for use in natatoriums.

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

High Impact Acrylic Lens
Manufactured with Ultra High Impact, Naturally UV Stabilized Extruded Acrylic.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Straight and clean square bollard.
Smooth lines complimented with a smooth lighting effect from the opal vertical diffuser.

Smith is an elegant bollard that is suitable for both modern and classic architecture. Ideal for creating visual guidance with exceptional visual comfort. A sleek and minimalist shape provides distinctive lighting effects by night and decorative urban effect during the day. Suitable for pedestrian precincts, building surrounds, shopping centers, squares and parks. The luminaire is provided with a ultra high impact UV stabilized acrylic lens that provides excellent low glare vertical and illumination.

The Smith Bollard comes standard with a unique waterproof internal driver housing compartment that is situated at the top of the pole to stop water and dust from entering the electrical components. This fixture is supplied completely wired with powercord and waterproof gland from the driver enclosure to the base of the bollard ensuring quick trouble-free installation. Custom bollard heights are available, please specify.
Color temperature 2700K, 3000K, 3500K and 4000K.
Custom wattages can be provided to suit customer and Title 24 requirements. (Specify total watts per fixture)

NOTE: This product is available with integrated occupancy sensor detection, please see page 2 for more information.

Additional Options (Consult Factory For Pricing)

PS
Perforated Shield

A91591
Lockable GFCI Box
(Bollard Height 60")

FS-USM-10701-RGBW

Smith Square Bollard

LIGMAN LIGHTING USA

PROJECT		DATE	
QUANTITY		TYPE		NOTE	

ORDERING EXAMPLE || USM - 10701 - 38w - RGBW30 - 02 - 120/277v - Options

USM-10701				
	LAMP	RGBW COLOR	FINISH COLOR	VOLTAGE
	38w LED 4234 Lumens	RGBW30 - Warm White 3200K RGBW40 - Neutral White 4000K RGBW65 - Cool White 6850K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL	120/277v Other - Specify

ADDITIONAL OPTIONS			

GFCI - GFCI Box
NAT - Natatorium Rated
DIM - 0-10v Dimming
PS - Perforated Shield [Contact Factory]
A91591 - Lockable GFCI Box (Bollard Height 60")

UL - Unlit Bollard
HGT - Custom Bollard Height [Specify HGT=XX"]
OCC1 - Single Occupancy Sensor
OCC2 - Dual Occupancy Sensor

RGBW DMX/RDM Control

RGBW DMX/RDM Control

RGBW control requires precise communication between lighting fixtures and IP-based systems. To manage Red, Green, Blue, and White diodes effectively, each fixture must be pre-addressed to ensure accurate individual or grouped control.

Ligman's Engineered Approach

Ligman offers a structured, performance-driven methodology for RGBW system design and deployment.

Fixture Addressing

- Default: Fixtures are factory-programmed with the same DMX address unless otherwise specified.
- Issue: Identical addresses cause all fixtures to respond as one—changing colors simultaneously.

Solution: Assign unique DMX addresses to each fixture during programming or via RDM tools to enable independent or grouped control.

Termination Resistors

To prevent signal interference (crosstalk) between fixtures:

- Ligman supplies 120-ohm termination resistors.
- Install inside the last fixture or at its J-Box. – (Resistor will be factory installed on most fixtures, Some will require installation Onsite Dependent Upon Fixture and Type.) - Connect between DMX+ and DMX– signal lines.

System Design Guidelines

Fixture Count

- On 3 or More Fixtures: A terminating resistor is installed at the end of the run.

On 5 or More Fixtures: Ligman may request additional layout details to validate system integrity.

Fixtures with Dual DMX Addresses require more DMX channels, reducing the number of fixtures per run. *(Refer to technical drawings for specifics.)*

- Maximum Distance Without Booster: 984 ft (300 m) from the controller.

Beyond This Limit: DMX/RDM splitters or boosters are required.

Custom Layouts

For non-standard RGBW configurations, Ligman requires:

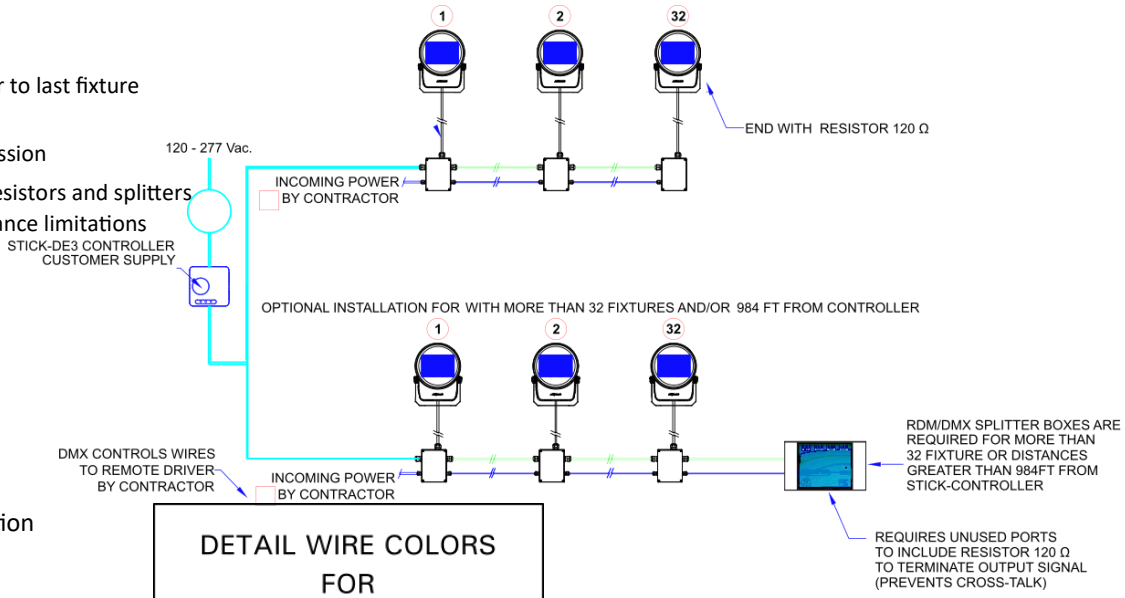
- Fixture quantity per run
- Distance between fixtures

Total cable length from controller to last fixture

This ensures:

- Reliable DMX signal transmission
- Proper use of termination resistors and splitters

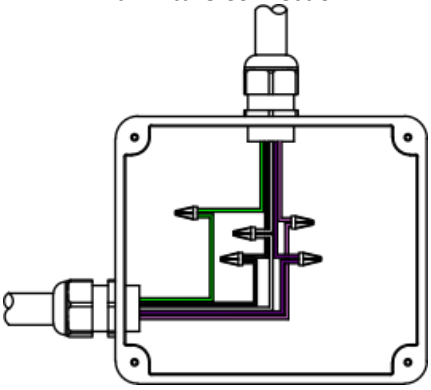
Compliance with fixture and distance limitations



Single Fixture Connection

Or

Final Fixture Connection

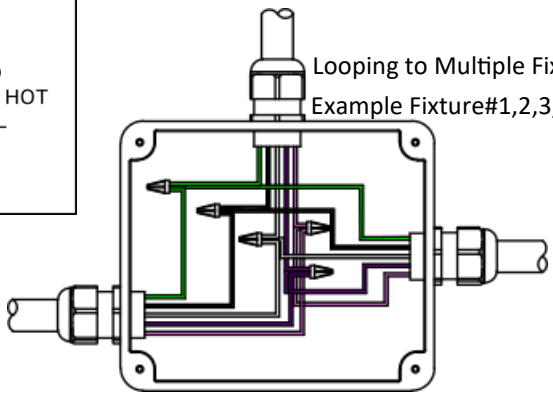


DETAIL WIRE COLORS
FOR
5-WIRE CABLE

GREEN----------GROUND
BLACK----------120/277 HOT
WHITE----------NEUTRAL
PURPLE----------DMX +
PINK----------DMX -

Looping to Multiple Fixtures

Example Fixture#1,2,3,4,ect.



DMX Controls

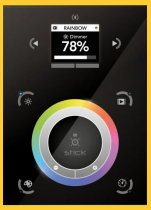
LIGMAN LIGHTING USA

pharos

STICK-DE3

The feature rich lighting controller has been designed to provide a control solution for the most demanding of projects, whilst maintaining an easy to use panel of touch sensitive buttons. The controller integrates a graphical color screen allowing scene photos to be displayed. Easily view the selected zone, scene name and design without the need to navigate through complex menus. Change the speed, color and dimmer using the circular palette.

The lighting levels, color and effects can be programmed from a PC, Mac, Android, iPad or iPhone using the included software.



ESA PRO2

ESA 2

Stick-DE3

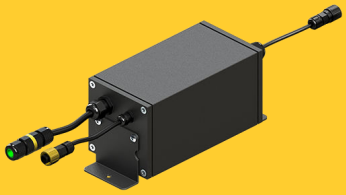
A64791

RDM DMX Splitters

The RDM (Remote Device Management) is a 4 port DMX512 Splitter compatible with the RDM standard to provide DMX output to luminaires and other devices. DMX splitters are an essential requirement for most control systems, allowing multiple separate cable runs from a single DMX output and ensuring electrical isolation.

DMX Splitter / Booster - Remote IP65 Box

DMX/RDM Splitter, within an IP65 box with 1 channel output, is a digital signal distributor is used with DMX512-A and ANSI E1.20 RDM. 1-port, DMX/RDM isolated splitter engineered to take any architectural, commercial, or entertainment project to the next level. Multiple DMX/RDM Splitter can be chained together to create as many outputs as you need.



RDM – DMX Repeater

The RDM (Remote Device Management) is a 4 port DMX512 Splitter compatible with the RDM standard to provide DMX output to luminaires and other devices. DMX splitters are an essential requirement for most control systems, allowing multiple separate cable runs from a single DMX output and ensuring electrical isolation.

Smith Product Family

Smith 1

- USM-10693-33w-1644lm
- USM-10693-18w-760lm

Smith 2

- USM-21121-66w-3340lm [6.3"]

Smith 3

- USM-21031-66w-3297lm [8.8"]

Smith 5

- USM-10701-38w-4234lm

Smith 5

- USM-21141-76w-8468lm