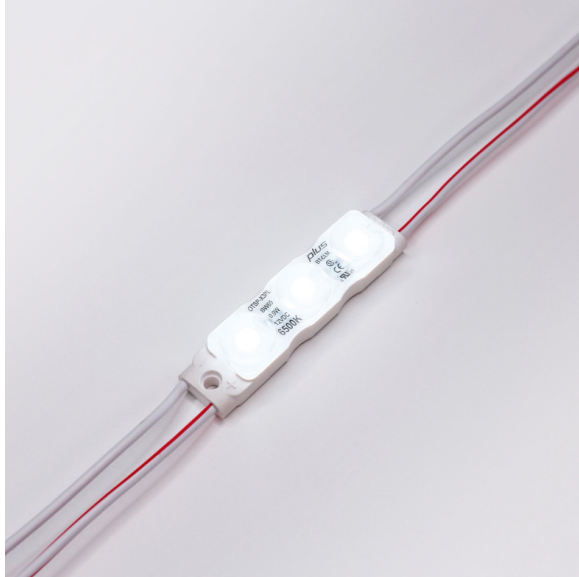




OpticsPro X Series

Bantam X

Channel Letter & Sign Cabinet Lighting



BANTAM X Plus Bright White (XPRO-X3PL-BW65)

features

- Small form factor design for low profile and compact applications
- New easy-peel double-sided tape
- Superior brightness with improved efficacy over the previous generation
- New and improved optics with 162° beam angle
- Flexible wires allowing easier handling and wire management
- Engineered with Top Tier LED chips and equipped with Bitro's Constant Current Technology
- High quality parts and reliable manufacturing for excellent performance
- Designed for uniform illumination with durable, dependable and long-lasting construction
- Engineered for maximum efficiency and minimum voltage drop
- Backed by 7/5-year Limited Warranty (Product/Labor)

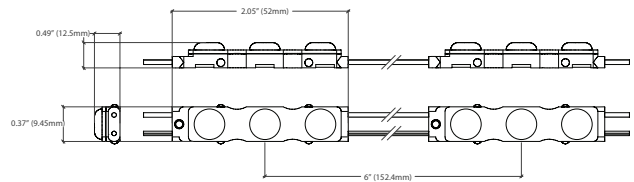
overview

Bitro's Bantam X (XPRO) series is the latest addition to the OpticsPro X series. BANTAM X incorporates the same top tier LED chips and wide-beam optics as OpticsPRO X in a new compact housing design, enabling use in lower profiles and smaller channels. It comes in two models - Plus and Lite as well as multiple color options for use in a variety of depths and applications.

The lens also performs as a protective cover for its excellent water-resistant and dust-free design.

models	description
XPRO-X3PL	"BANTAM X Plus". Small Body, 3-bulb Module 180 lm/ft, max 30 ft per 60W power supply
XPRO-X3LT	"BANTAM X Lite". Small Body, 3-bulb Module 128 lm/ft, max 45 ft per 60W power supply

models & dimension



XPRO-X3PL	3-bulb, small body, 2 modules per foot 180 lm/ft, max load: 30 ft on ASU-60-12U
XPRO-X3LT	3-bulb, small body, 2 modules per foot 128 lm/ft, max load: 45 ft on ASU-60-12U



Constant Current Technology

IP68

7/5-YEAR LIMITED WARRANTY PRODUCT/LABOR



LM80





OpticsPRO Series

Bantam X

Channel Letter Lighting / Small Form Factor



specifications

Item	Series Name	OpticsPRO Series		
Model	Model Name	BANTAM X Plus	BANTAM X Lite	
	Model #	XPRO-X3PL	XPRO-X3LT	
	Intended Applications	Std. Channel Letters, Low Profile Channel Letters		
	Physical Dimensions	2.05" x 0.49" x 0.37" (52mm x 12.5mm x 9.45mm)		
	# LED Bulbs per Module	3 lamps		
Applications	Module Spacing	2 mods/ft (6" on-center)		
	* Lumens	per Module	90 lm/mod	
		per Foot	180 lm/ft	
Electrical	Power Consumption	per Module	0.9 w/mod	
		per Foot	1.8 w/ft	
	Recommended LED Power Supply	Alpha Slimline 12V-60W Class 2 Power Supply (ASU-60-12U)		
	Recommend- ed Load per Power Supply	# Modules	60 mods	90 mods
		Linear Ft	30 linear ft	45 linear ft
	* Lumen Efficacy (lm/w)		100 lm/w	101.5 lm/w
Colors, SKUs	Color	Color Specs	SKU's	
	Bright White	6500K	XPRO-X3PL-BW65	
	Day White	5000K	XPRO-X3PL-DW50	
	Soft White	4000K	XPRO-X3PL-SW40	
	Warm White	3000K	XPRO-X3PL-WW30	
Common Specs	Input Voltage	12VDC		
	Viewing Angle	162°		
	Operating Temperature	-25°C ~ 60°C / -13°F ~ 140°F		
	Housing	ABS styrene copolymer, Polycarbonate Optics		
	Wire	18AWG, 1007, UL Approved		
	Waterproof Rating	IP68. UL approved for Dry and Damp Locations		
	Application Method	Easy double-sided tape, Mounting Hole for Mechanical Fastening		
	Warranty	7/5-Year Limited Warranty (Product/Labor)		
	Certification	UL Recognized (SAM) for US & Canada, CE, CSA		
	UL File # / Ref. #	BT-CLM "Channel Letter Modules" E341583 for cRUus, E487861 for Retrofit UL		
	CSA File # / Ref. #	258485, "BT-CLM"		
CE Ref #.	"BT-CLM"			
Ordering & Packaging	Module per Tray	75		
	Module per Case	1500		

* Lumen values based on 6500K Bright White Model

revised: 03/22/21

layout service

Please email estimate@bitrogroup.com
For prompt layout services, provide scaled & detail drawings.

contact bitro

Bitro Group, Inc. (Headquarters)
300 Lodi St. Hackensack, NJ 07601
201-641-1004
sales@bitrogroup.com



OpticsPro X Series

Bantam X

Channel Letter & Sign Cabinet Lighting



Bantam X Layout Guidelines

Recommended maximum spacing configuration for optimal uniformity¹

Depth ²	Maximum Single Stroke Coverage	Module-to-Module Parameters	
		Minimum Mods/ft	Mod-to-Mod Distance on Center
>7"	15"	2 mods/ft	6"
6"	14"	2 mods/ft	6"
5"	12"	2 mods/ft	6"
4"	9"	2.5 mods/ft	4.8"
3"	7"	3 mods/ft	4"
2.5"	5"	3.5 mods/ft	3.4"

Depth ²	Stroke-to-Stroke Spacing for multiple rows	Module-to-Module Parameters	
		Minimum Mods/ft	Mod-to-Mod Distance on Center
>7"	12"	2 mods/ft	6"
6"	11"	2 mods/ft	6"
5"	9"	2 mods/ft	6"
4"	7"	2.5 mods/ft	4.8"
3"	4.5"	3 mods/ft	4"
2.5"	2.5"	3.5 mods/ft	3.4"

* Parameters are tested on 3/16" 2447 White Acrylic Face.

* Layouts are applicable to Bantam X Max, Plus, and Lite. Brightness Level is proportional to relative current draw of the modules.

¹ Listed parameters are maximum spacing of modules required for uniform illumination of faces at any given depth.

* Configurations outside of listed parameters may be considered acceptable, depending on user testing.

² Module layout parameters at deeper depths (>6") may require additional modules per brightness considerations, irrespective of layout recommendation. Properties of optics lenses may impart unexpected results with specific layouts at shallow depths. Testing of module layouts at depths <3" is highly recommended.

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