

BXCCM

CORRIDOR LIGHT | CEILING MOUNT

DATASHEET
SPECIFICATIONS

The BXC Ceiling Mounted Corridor Light is designed to deliver controlled, comfortable illumination for interior corridors and transitional spaces. Its three-optic layout blends left and right wall-wash beams with a focused centre spot to ensure balanced visual coverage.

With RGBW/RGBA/RGBL side modules and multiple White CCT options for the centre, it provides flexible scenes for architectural environments. The dedicated corridor driver enables smooth control and consistent system performance.

Built from die-cast aluminium with tempered glass, the ceiling-mounted model is rated IP20, while the wall-mounted version achieves IP66, offering dependable durability across indoor and protected outdoor applications.



At a glance

Emitters

RGBW
(W = 2400K, 2700K, 3000K, 4000K, 6000K)

OR

RGBA

OR

RGB

OR

White
(Amber, 2400K, 2700K, 3000K, 4000K, 6000K)

Light driver dimensions

Controls

Wattage

15W or 30W

Protection

Ingress – IP20

Temperature

-20°C to 50°C
-4°F to 122°F

Optics

Dimensions

FIXTURE PRODUCT CONFIGURATOR

Prefix	Model	Left Side LED IEFT	Left Side White CCT	Right Side LED Colour	Right Side White CCT	Middle LED Colour	Control	Power
BXC	CM – Ceiling Mounted	RGBW RGBA RGB	24K – 2400K 27K – 2700K 30K – 3000K 40K – 4000K 60K – 6000K	RGBW RGBA RGB	24K – 2400K 27K – 2700K 30K – 3000K 40K – 4000K 60K – 6000K	A – Amber 24K – 2400K 27K – 2700K 30K – 3000K 40K – 4000K 60K – 6000K	D – DMX DA – DALI P – PWM X – X-Stream XB – X-Stream Booster	15 – 15W 30 – 30W

EXAMPLE: BXC – CM – RGBW – 30K – RGBW – 30K – 60K – X – 15

Note*:
XB Booster lives in the inside of the product. Refer to PXT/R page for differences between X and XB.
Need an external controller to run on PWM

CORRIDOR LIGHT

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CEILING MOUNT

BXC CEILING MOUNTED SPECIFICATIONS

ELECTRICAL	POWER CONSUMPTION OPERATING TEMPERATURE OPERATING TEMPERATURE	15W OR 30W -20°C TO 50°C (-4°F TO 122°F) -20°C TO 70°C (-4°F TO 158°F)
PHYSICAL	STANDARD FIXTURE DIMENSIONS HOUSING IP RATING SOURCE LIFE CONNECTION CONNECTOR	L: 216MM – W: 105MM – H: 72MM DIE-CASTING ALUMINIUM PLUS TEMPERED GLASS IP 20 50,000 ≈ 70,000 HOURS / L70 AT 25° 6-PIN CABLE 6-PIN GREEN CONNECTORS
OPTICAL	BEAM ANGLE COLOUR RANGE LED TYPE	LEFT/RIGHT SIDE – WALL WASH BEAM ANGLE / CENTER – SPOT BEAM ANGLE LEFT SIDE – 4-IN-1 RGBW OR RGBA OR RGB CENTER – AMBER / 2400K / 2700K / 3000K / 4000K / 6000K RIGHT SIDE – 4-IN-1 RGBW OR RGBA OR RGB HIGH POWER LEDS
DIMING & CONTROL	CONTROL PROTOCOLS DIMMING RESOLUTION	X-STREAM PROTOCOL WITH DATA REDUNDANCY AND DMX, DALI, PWM 8 BIT RESOLUTION DOING 65536 STEP WITH BUILT-IN GAMMA 2.2, 12-BIT, 14-BIT, 16-BIT.
FIXTURE RATING & CERTIFICATIONS	CE / IP20	CE IP20
LIMITED WARRANTY	5 YEARS *Extendable warranty available	5

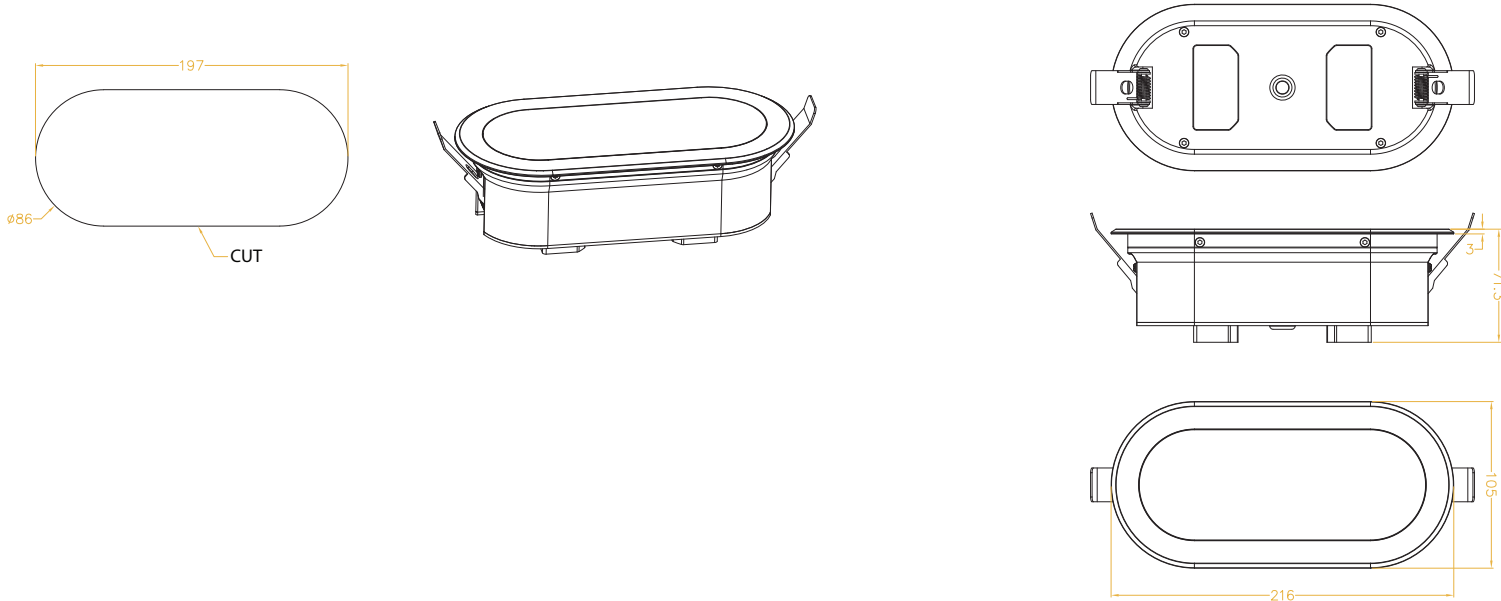
BXC LIGHT DRIVER SPECIFICATIONS

ELECTRICAL	POWER IN OUTPUT	100 ≈ 277V 5W / 10W OPTION BY RDM SETUP
PHYSICAL	DIMENSIONS CONNECTION IP RATING	L: 189MM – W: 65MM – H: 52MM 6-PIN AC/DMX CABLE INPUT C/W BARE END IP 20
DIMING & CONTROL	CONTROLLED	DMX, RDM, ADDRESSED BY RDM TESTER, 9 DMX CHANNELS

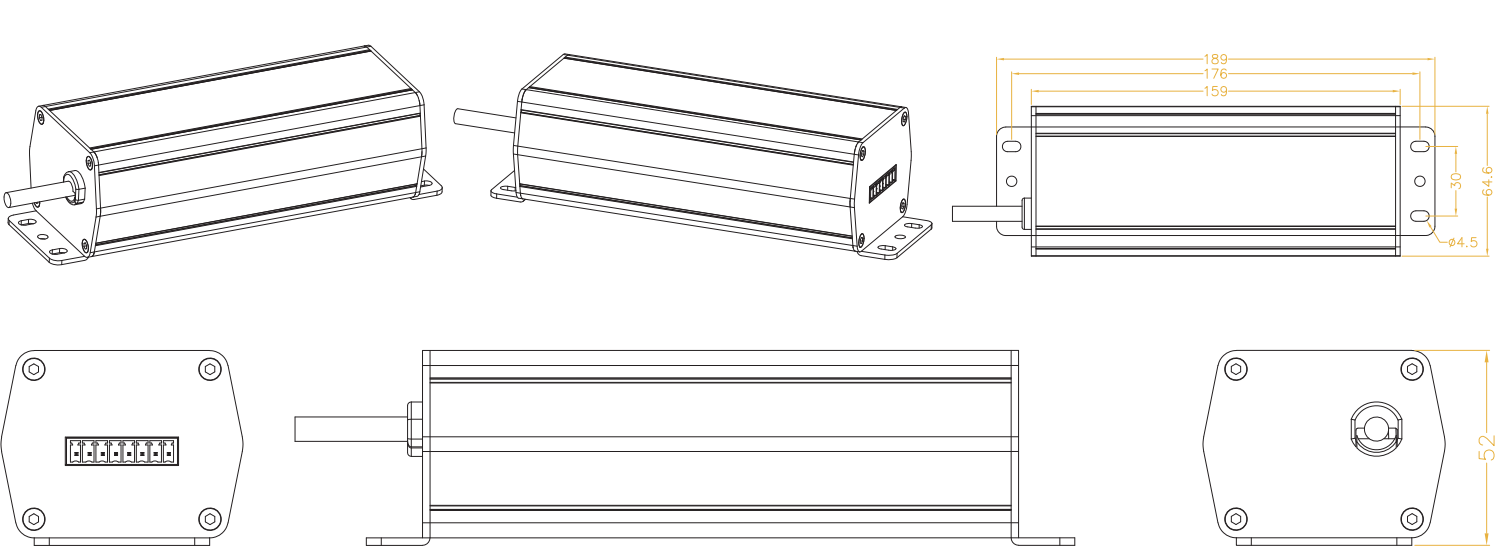
CORRIDOR LIGHT | CEILING MOUNT

FIXTURE DIMENSIONS

CEILING MOUNTED DIMENSIONS

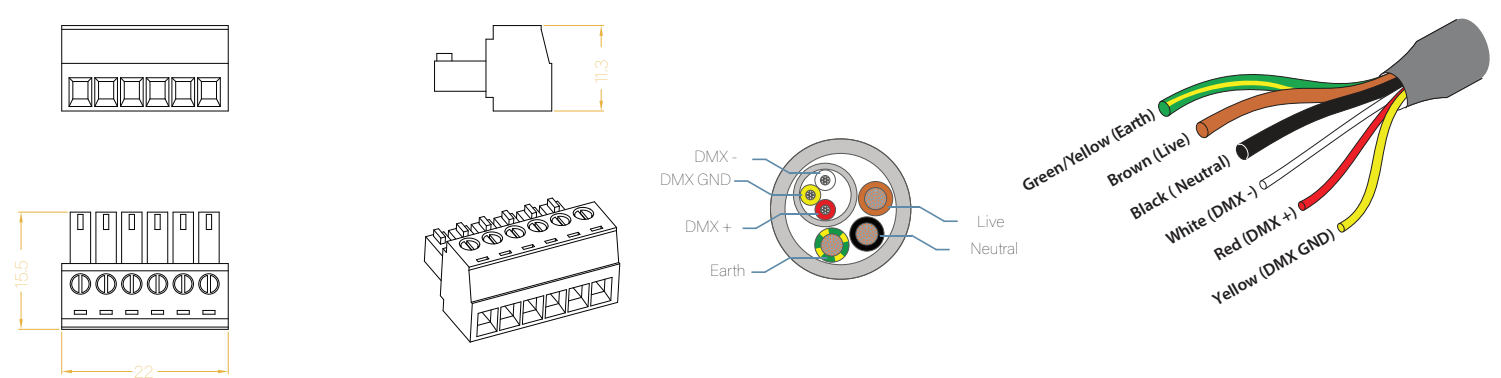


LIGHT DRIVER DIMENSIONS



CABLES AND CONNECTORS

6-PIN AC/DMX CABLE INPUT C/W BARE END



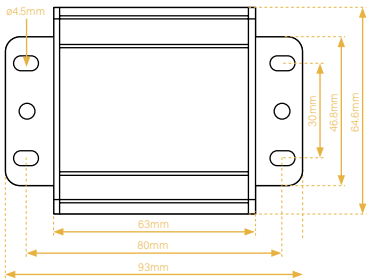
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PXT/R BOOSTERS

The PXT and PXR work together as a transmitter/receiver pair to allow you to extend SPI signals up to 100 metres. The units convert the standard API signal to/from a differential pair to allow the signal to travel this distance while minimising interference.

Wide input voltage range allows support for many LED products, and the compact size makes it easy to accommodate in installations.

D1 and B1 inputs support standard data (D1) and backup data (B1) for pixel protocols supporting data redundancy.



PXT TRANSMITTER	INPUT VOLTAGE AMP INPUT OUTPUT IP RATING	12V – 48V DC 6A MAX SPI OR X-STREAM FROM CONTROLLER OR LEDS X-STREAM DIFFERENTIAL SIGNAL IP20
PXT RECEIVER	INPUT VOLTAGE AMP INPUT OUTPUT IP RATING	12V – 48V DC 6A MAX X-STREAM DIFFERENTIAL SIGNAL SPI OR X-STREAM TO LEDS IP20

X-STREAM® COMMUNICAITON OPTIONS

X-Stream technology is LED CTRL's premium communication platform, delivering high-speed data transmission, intelligent redundancy, and exceptional signal integrity across large-scale lighting installations. It is available in two configurations to suit different installation requirements.

X – X-Stream (EXTERNAL)

In the standard X-Stream configuration, all communication hardware sits outside the fixture. A PXT (Transmitter) and PXR (Receiver) pair is mounted externally, converting the standard SPI signal to a differential pair for long-distance, interference-resistant data transmission.

- Communication distance up to 100 metres between fixtures.
- D1 and B1 inputs support standard and backup data for full signal redundancy.
- Wide input voltage range for compatibility across the LED CTRL product ecosystem.
- For longer runs, additional pXT/pXR pairs can be added at intervals to maintain signal integrity.
- Best suited for installations where external access to communication hardware is preferred, or where fixtures do not support internal integration.

XB – X-Stream Boosted (INTEGRATED)

X-Stream Boosted moves the signal repeating capability inside the fixture run, eliminating external hardware and simplifying installation. An external PXT transmits the signal to a PXR housed inside the product, which receives, processes, and re-transmits via a built-in PXT to the next fixture – effectively turning each boosted point into a signal relay.

- Eliminates external junction boxes and separately mounted communication hardware.
- Each boosted point fully regenerates the signal, preventing degradation over distance.
- Supports extended runs without compromising data quality.
- Cleaner installation with fewer visible components.

Integration depends on the product:

- High refresh rates (up to 16 kHz) further ensure stable, flicker-free performance and accurate colour rendering.
- Factory-integrated (e.g. LXB): The PXT/PXR hardware is built directly into the fixture, no additional components required.
- Dedicated boost housing (e.g. PUX): A purpose-built fixture shell, identical in form but without LEDs, houses the PXT/PXR pair. Placed at the beginning of each run and at intervals along longer runs, it integrates seamlessly without disrupting the visual continuity of the installation.

Both configurations share the same underlying X-Stream platform, ensuring identical signal quality, redundancy, and compatibility with LED CTRL controllers and fixtures.

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X-STREAM TECHNOLOGY

X-Stream Technology is LEDCTRL's premium communication and power delivery platform, built on the advanced UCS7604 driver IC. It is designed to deliver high speed data transmission, exceptional reliability, and superior visual performance across large-scale and demanding lighting installations.

At its core, the system integrates intelligent signal processing, high-precision constant current control, and advanced error-detection mechanisms to ensure stable operation and consistent output, even in complex or long-distance configurations.

KEY FEATURES

Built-in Redundancy

X-Stream incorporates dual-channel signal transmission with intelligent fault detection. In the event of a pixels or signal failure, the system automatically bypasses the faulty node and continues data transmission without interruption.

- Dual signal channels with real-time monitoring
- Automatic switching between channels in case of failure
- Fault identification accuracy greater than 99%
- No visible disruption during signal switching

This ensures continuous operation and eliminates single-point failures across the installation.

Auto-Addressing

Fixtures require no manual addressing or pre-configuration. Each unit automatically interprets incoming data, allowing for flexible installation and simplified maintenance.

- Plug-and-play installation
- No addressing sequence required
- Fixtures can be installed in any order

This significantly reduces installation time and minimises the risk of configuration errors.

High-Speed Communication

X-Stream supports high-speed PWM data transmission, enabling smooth and dynamic lighting effects across long runs.

- Transmission speeds: 800 Kbps and 16 Mbps
- Supports high frame rates and fast data refresh
- Capable of filming environments up to 533 FPS without flicker
- Stable performance regardless of frame frequency

This ensures high-quality visual output suitable for media façades, dynamic content, and camera-facing applications.

Advanced Dimming Performance

The system supports multiple dimming resolutions, delivering precise brightness control and smooth transitions across the full output range.

- 8 / 12 / 14 / 16-bit dimming options
- Up to 65,536 levels of greyscale
- Built-in gamma correction (8-bit to 16-bit equivalent)
- Seamless dimming from 0% to 100%

High refresh rates (up to 16 kHz) further ensure stable, flicker-free performance and accurate colour rendering.

Signal Integrity & Reliability

X-Stream integrates advanced anti-interference and signal enhancement technologies to maintain reliable communication in challenging environments

- S-AI anti-interference technology reduces radiation and conduction interference
- Enhanced signal receiving and transmission stability
- Consistent performance across varying environmental conditions
- Extended standard spacing between fixtures (>15 m)

These features ensure robust operation in large-scale and electrically complex installations.

Data Booster Technology

To support extended installation distances, X-Stream incorporates data boosting capabilities both within fixtures and via external booster units.

- Extends communication distance up to 100 m between fixtures
- Maintains signal integrity over long data runs
- Supports large-scale linear and distributed installations

This allows for greater design flexibility without compromising system performance.

Long-Distance Power Distribution

X-Stream systems are designed to support extended power runs through intelligent power management and integrated hardware.

- AC fixtures with built-in, replaceable power supplies
- High power factor for efficient energy distribution
- Managed startup and inrush current control
- Smart load regulation for stable operation
- Supports continuous runs of up to 96 m of linear product

This ensures reliable power delivery across extended fixture runs while maintaining system safety and efficiency.

System Overview

By combining high-speed communication, intelligent redundancy, and advanced signal processing, X-Stream Technology enables the creation of large-scale, high-performance lighting systems with minimal installation complexity and maximum operational reliability.

Its integration of the UCS7604 chipset ensures that each fixture operates with precision, consistency, and resilience, making it suitable for demanding architectural, façade, and media lighting applications.