

Installation and Operation Instructions Bullitt BX Directional



Product Description



Redtronic's Bullitt BX directional LED's are ultra-bright, versatile warning lights. They are available in 4 sizes including single and double stack, making them the ideal solution for a wide variety of vehicle applications.

BX31 Series



Colour options: 

Voltage: 10-30VDC

Stack Type: Single

LED's: 3 (single colour) 9 (tri and multi colour)

Warranty: 2 years

BX32 Series



Colour options: 

Voltage: 10-30VDC

Stack Type: Double

LED's: 6 (single colour) 18 (tri and multi colour)

Warranty: 2 years

BX61 Series



Colour options: 

Voltage: 10-30VDC

Stack Type: Single

LED's: 6 (single colour) 18 (tri and multi colour)

Warranty: 2 years

BX62 Series



Colour options: 

Voltage: 10-30VDC

Stack Type: Double

LED's: 12 (single colour) 36 (tri and multi colour)

Warranty: 2 years

Flash Patterns

1	Mega
2	Quad (fast)
3	Triple (fast)
4	Double (fast) ECE R65
5	Single (fast)
6	Hyper
7	Quad (slow)
8	Triple (slow)
9	Double (slow)
10	Single (slow)

Technical Information



	BX31	BX32	BX61	BX62
Optic Type	Wide-angle FX optic	Wide-angle FX optic	Wide-angle FX optic	Wide-angle FX optic
Voltage Range	10- 30VDC	10-30VDC	10-30VDC	10-30VDC
Number of LEDs	Single (3) Tri (9)	Single (6) Tri (18)	Single (6) Tri (18)	Single (12) Tri (36)
Candela Rating	-	-	-	592 (Amb) 788 (Blue)
Current Peak Max	500mA at 12VDC	1Amp at 12VDC	1Amp at 12VDC	2Amps at 12VDC
LED Power (watt)	Single (9) Tri (18w)	Single (6w) Tri (36w)	Single (18w) Tri (36w)	Single (36w) Tri (72w)
Stack Type	Single	Double	Single	Double
IP Rating	IP69K	IP69K	IP69K	IP69K
R65 Approval	Class I (A & B)	Class I (A & B)	Class I (A), Class II (B)*	R65 Class II (A & B)*
Airport Approval	ICAO / CAP168	ICAO / CAP168	ICAO / CAP168	ICAO / CAP168
Compliant	EMC R10	EMC R10	EMC R10	EMC R10
DIM Mode	Yes (night and day)	Yes (night and day)	Yes (night and day)	Yes (night and day)
Cruise	Yes - available	Yes - available	Yes - available	Yes - available
Synchronisation	Yes	Yes	Yes	Yes
Weight	59g	90g	104g	164g
Operating Temp	-40 to +105°C	-40 to +105°C	-40 to +105°C	-40 to +105°C
Mounting	2 Screw or L Bracket	2 Screw or L Bracket	2 Screw or L Bracket	2 Screw or L Bracket
Warranty	2 years	2 years	2 years	2 years

Cable Connections

Function	Cable Colour	Description
Power 1 +ve	Red Wire	Power 1 – powers primary colour
Power 2 +ve	Orange Wire	Power 2 - powers secondary colour
Ground -ve	Black Wire	0v ground / earth
Pattern +ve	Brown Wire	Changes the flash pattern by momentarily applying to a positive. Apply to +ve for 2-3 seconds to revert to quad flash (pattern 1)
DIM + ve	Blue Wire	Activate night mode
Synchronisation	Yellow Wire	Link to other Redtronic products
Configuration	Green Wire	Colour function selection

Installation

Connecting the Bullitt BX directionals to a vehicle battery / power source requires the **black wire** to be connected to the **negative** [-ve] terminal, and either the **red wire** (V1), **orange wire** (V2) or V1 and V2 together (V3) to be connected to **positive** [+ve] terminal. Pattern and mode functions need to be set in the same manner as the primary **red wire** colour. Disconnect the **red wire** to set the secondary functions as desired. All Bullitt BX directionals are set to double flash pattern as default before leaving the factory.

To set colour and modes:

Connect the **red wire** (V1), **orange wire** (V2) or V1 and V2 (V3) wire to **positive** [+ve] and the **black wire** to **negative** [-ve] terminals on the power source. Hold the **yellow wire** to the negative [-ve] terminal and the **green wire** to **positive** on the power source. The BX will steady burn (GATSO) option, these are colour select modes. Scroll through the optional 'colour programs' by applying the **brown wire** to **positive** [+ve] momentarily. A solid colour signifies steady burn mode, flashing signifies flashing mode and blank signifies off mode.

To set the alternate flash mode:

You can either set V1 to alternate against V2, or utilise the colour setting mode to combine an alternating feature on a single control line. If you want to keep them individually controlled: connect the **red wire** (or **orange wire**) to **positive** [+ve] and the **black wire** to **negative** [-ve] terminals on the power source. Hold the **yellow wire** to the **negative** [-ve] terminal on the power source. The BX will turn from flashing to 'steady burn'.

While holding the **yellow wire** on the **negative** [-ve] terminal, hold the **brown wire** to the **positive** [+ve] terminal. After 2 seconds, the unit will extinguish for 5 seconds, after which the BX will start a quick succession of flashes. Remove the **brown wire**, the unit should now be flashing alternately to any BX's it synchronises with.

To set the flash pattern:

With the BX powered on, the **brown wire** should be connected to **positive** [+ve] terminal from the power source momentarily, to change to the next pattern. Either touch the wire to **positive** [+ve] briefly, or connect via a momentary switch and press to change pattern.

BX lamps are capable of flashing according to the CAP168/ICAO airport flash rate of 60-90 fpm and reduced brightness. To enter CAP168/ICAO flash mode simply power the unit and apply the **brown wire** to **positive** [+ve] for 10 seconds. To undo this feature simply repeat this step to revert back to standard flash patterns.

To set the DIM function:

Connect the **blue wire** to **positive** [+ve] at the power source to enable DIM (night) mode. The **blue wire** needs a constant connection to **positive** [+ve] to operate in this mode. The BX will return to full brightness when the **blue wire** is disconnected.

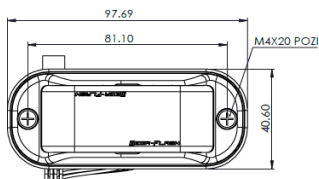
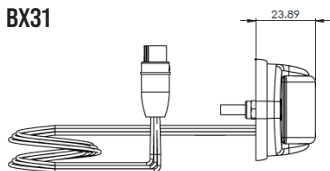
To synchronise BX's:

When the desired flash pattern and mode has been set, connect the **yellow wires** from each BX together, this will ensure all BX flash in synchronised format. Note: **Do not** apply **yellow wires** to **positive** [+ve].

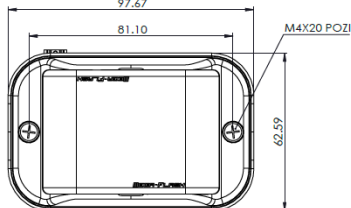
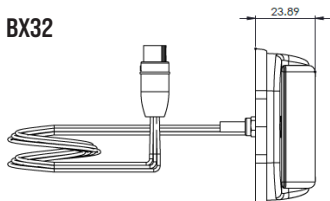
Do not attempt to sync Redtronic products with any other manufacturer's products.

Dimensions

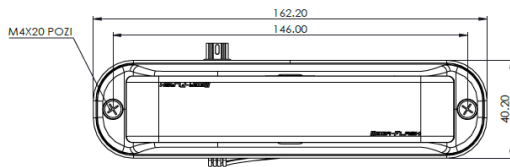
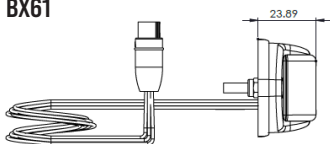
BX31



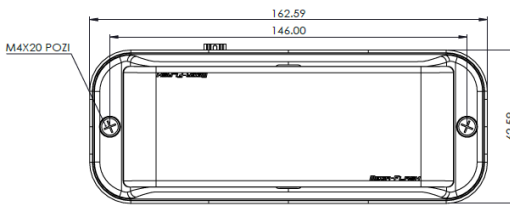
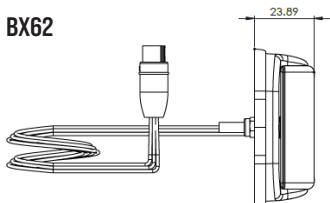
BX32



BX61



BX62



Warranty and Liability

Redtronic warrants that on the date of purchase, this product will conform to Redtronic specifications for this product (which are available from Redtronic upon request). This product benefits from a 2-year warranty from the date of purchase.

Cleaning and Maintenance

Please refer to our 'How to care for your Redtronic Polycarbonate Products'.