



Installation and Operation Instructions Tornado B150 Beacon

Product Description



Redtronic's Tornado B150 beacon is designed to incorporate a sleek design in the tallest profile of the Tornado beacon range whilst providing the ultimate light output to meet ECE R65 Class I amber and Class II blue. The Tornado B150 beacon meets IP69K to protect against water and dust and offers the best of features compared to those in a lightbar such as CAP168/ICAO approval, multiple flash patterns and a variety of mounting options to meet most vehicle fitting needs.

Part Number	LED Colour	Lens Colour	Voltage	Mount	Warranty
BTN3-150-AC			11-32VDC	3 Bolt	3 years
BTN3-150-AA			11-32VDC	3 Bolt	3 years
BTN3-150-BC			11-32VDC	3 Bolt	3 years
BTN3-150-BB			11-32VDC	3 Bolt	3 years
BTN1-150-AC			11-32VDC	1 Bolt	3 years
BTN1-150-AA			11-32VDC	1 Bolt	3 years
BTN1-150-BC			11-32VDC	1 Bolt	3 years
BTN1-150-BB			11-32VDC	1 Bolt	3 years
BTNM-150-AC			11-32VDC	Magnetic	3 years
BTNM-150-AA			11-32VDC	Magnetic	3 years
BTNM-150-BC			11-32VDC	Magnetic	3 years
BTNM-150-BB			11-32VDC	Magnetic	3 years
BTNF-150-AC			11-32VDC	Flexi DIN	3 years
BTNF-150-AA			11-32VDC	Flexi DIN	3 years
BTNF-150-BC			11-32VDC	Flexi DIN	3 years
BTNF-150-BB			11-32VDC	Flexi DIN	3 years

Features and Benefits

- Ultra-bright latest generation LED's
- Ultra-strong UV stabilised polycarbonate lens
- Synchronisation capability with other Redtronic products
- Dekra Speed Rating: 146.6mph (236.2km/h) mag mount
- Operating Temperature: -40 to +105°C
- Multiple mount options available
- R65 Class II approved (blue) Class I (amber)
- IP69K protection against dust & water ingress













- CISPR 25 level 3 and CAP168/ICAO airport flash
- EMC R10 compliant
- Auto DIM (night & day) and Cruise feature available
- 11-32VDC operation
- 9 flash patterns
- Multi-function cigarette plug (mag mount)
- 3 year warranty







Technical Information

11-32VDC
16 LEDs
2 amps max at 12VDC
IP69K protection against dust & water ingress
ECE R65 Class II (blue) Class I (amber), CISPR 25 Level 3, ICAO / CAP168
EMC R10
146.6mpg (236.2km/h) mag mount
Yes (night & day)
Yes with other Redtronic products
458g (3 bolt), 485g (1 bolt), 808g (mag)
-40 to +105°C
Ultra-strong UV stabilised polycarbonate lens
3 bolt, 1 bolt, magnetic and flexi DIN
3 years

Flash Patterns

Pattern 1	Quad	
Pattern 2	Triple	
Pattern 3	Double	
Pattern 4	Single	
Pattern 5	Quad/Single	
Pattern 6	Quad/Triple/Double/Single	
Pattern 7	Rotate - Slow	
Pattern 8	Rotate - Fast	
Pattern 9	CAP168 – unlock with Brown to +ve for 10 seconds	

Cable Connections

Function	Cable Colour	Description	
Power 1+ve	Red Wire	Power 1 - powers primary colour	
Ground -ve	Black Wire	Ov 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	





Installation

Connecting the Tornado B150 beacons to a vehicle battery / power source requires the black wire to be connected to the negative (-ve) terminal, and the red wire 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 Tornado B150 beacons are set to double flash pattern as default before leaving the factory.

To set the alternate flash mode:

Connect the red wire to positive (+ve) and the black wire to negative (-ve) terminals on the power source. Hold the vellow wire to the negative (-ve) terminal on the power source. Note: Do not hold the yellow wire to the positive (+ve) terminal, as this may damage the beacon permanently. The beacon 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 beacon will extinguish for 5 seconds, after which the beacon will start a quick succession of flashes. Remove the **brown wire**, the beacon should now be flashing alternately to any beacons it synchronises with.

To set the flash pattern:

With the beacon 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 (+ye) briefly. or connect via a momentary switch and press to change pattern.

To enable / disable the AutoDIM function:

Power the beacon and connect the red wire to positive (+ve) and the black wire to negative (-ve), blue wire to positive (+ve) and vellow wire to negative (-ve). Then momentarily apply the brown wire to positive (+ye). To signify change, the beacon will flash in a slow double flash. To revert, undertake same action and when AutoDIM is active the beacon will flash in a slow single flash until all wires are removed. The blue wire will not activate the 'night mode function' if used when the AutoDIM function is set as active. **Note:** AutoDIM cannot be disabled due to no wire connection on the Flexi DIN mount.

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 beacon will return to full brightness when the blue wire is disconnected. Please ensure AutoDIM is not active if using this wire input function.

To synchronise lamps:

When the desired flash pattern and mode has been set, connect the yellow wires from each beacon together,



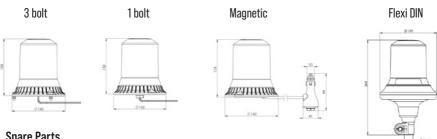




this will ensure all beacons flash in synchronised format. Note: **Do not** apply yellow wires to positive (+ve). **Do not** attempt to sync Redtronic products with any other manufacturer's products.

To ensure a weatherproof installation the lamp must be fitted with the supplied gasket and mounted on a flat panel to surface forming part of a weatherproof enclosure.

Dimensions



Spare Parts

Part Number	Description
SP_B5LENFT-A	Top Lens Amber
SP_B5LENFT-B	Top Lens Blue
SP_B5LENFT-C	Top Lens Clear
SP_BTNORING	O-Ring for Lens
SP_TN1B0LT	1 Bolt Fixings
SP_TN3B0LT	3 Bolt Fixings

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 3-year warranty from the date of purchase.

Warranty disclaimer: as the AutoDIM feature relies on the product being free of dirt and grease (and therefore not within the manufacturers control), the operation of this feature is not covered by the overall product warranty.

Cleaning and Maintenance

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