![Redtronic - Vehicle Warning and Safety Solutions]

MANUFACTURED IN THE
UNITED KINGDOM

Installation and Operation Instructions
GECKO6 Directional

GECKO 6
GRILLE LAMP

Product Description

Redtronic's GECKO6 directional LED delivers a powerful light output in a slim and compact design. It is available in vertical and horizontal models which are tailored for grille orientation, making them the ideal solution for a wide variety of vehicle applications within the emergency and safety services. The GECKO6 comes with multiple mount options which means they can be fitted virtually anywhere on a vehicle in a fit-and-forget fashion.

Part Number	Colour	Voltage	Orientation	Warranty
G6HSAOCB		11-32VDC	Horizontal	2 years
G6HSBOCB		11-32VDC	Horizontal	2 years
G6HSROCB		11-32VDC	Horizontal	2 years
G6HSWOCB		11-32VDC	Horizontal	2 years
G6HSARCB		11-32VDC	Vertical	2 years
G6VSAOCB		11-32VDC	Vertical	2 years
G6VSROCB		11-32VDC	Vertical	2 years
G6VSWOCB		11-32VDC	Vertical	2 years

Flash Patterns

1	Quad
2	Triple
3	Double
4	Single
5	Quad/Single
6	Quad/Triple/Double/Single
7	CAP168 – unlock with brown to +ve for 10 seconds

Technical Information

R65 CLASS II · R65 CLASS II · R10 EMC · ICAO CAP168 · IP69K

Voltage Range	11-32VDC
Directional Type	Unique wide angle intense optic with Ultra-bright latest generation LEDs
Number of LEDs	6
Amps / Current Peak Max	700mA @12VDC
LED Power	18 watts
IP Rating	IP69K protection against dust and water ingress
Approval	ECE R65 Class II blue and amber, CAP168/ ICAO
Compliant	EMC R10
DIM Mode	Yes (night and day)
Cruise	Cruise feature available
GATSO	GATSO light feature available
Synchronisation	Yes with other Redtronic products
Weight	53g
Operating Temperature	-40 to +105°C
Lens Material	Ultra-strong UV stabilised polycarbonate lens
Mounting	2 Screw / L-bracket / Offset Bracket / Bonnet Mount
Dimensions	L 123mm x H 24mm x D 17.5mm
Connector	IP69K connector (30cm flying cables with the connector on the end)
Warranty	2 years

Cable Connections

Function	Cable Colour	Description
Power 1 +ve	**Red Wire**	Power 1 – flashing output (as standard)
Power 2 +ve	**Orange Wire**	Power 2 - steady burn output (as standard)
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
Monitor Output +ve	**Green Wire**	Output function selection

Installation

Connecting the GECKO6 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) or **orange wire** (V2) 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 GECKO6 directionals are set to double flash pattern as default before leaving the factory.

To set V1 and V2 output function:
Connect the **red wire** (V1) or **orange wire** (V2) 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 GECKO6 will activate in either a flashing or steady burn (GATSO) option, these are function select modes. Scroll through the various optional feautres by applying the **brown wire** to **positive** (+ve) momentarily.

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 GECKO6 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 GECKO6 will start a quick succession of flashes. Remove the **brown wire**, the unit should now be flashing alternately to any GECKO6's it synchronises with.

To set the flash pattern:
With the GECKO6powered 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.

GECKO6's 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 GECKO6 will return to full brightness when the **blue wire** is disconnected.
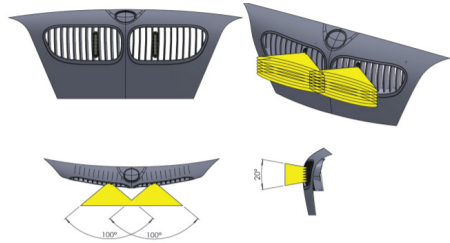
To synchronise GECKO6's:

When the desired flash pattern and mode has been set, connect the yellow wires from each GECKO6 together, this will ensure all GECKO6 flash in synchronised format. Note: <u>Do not</u> apply yellow wires to **positive** (+ve). <u>Do not</u> attempt to sync Redtronic products with any other manufacturer's products.
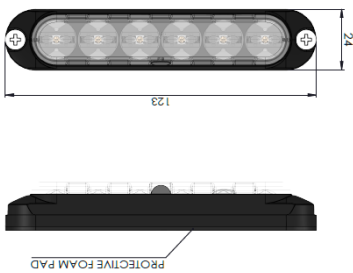
<u>Light Dispersion</u>

Horizontal
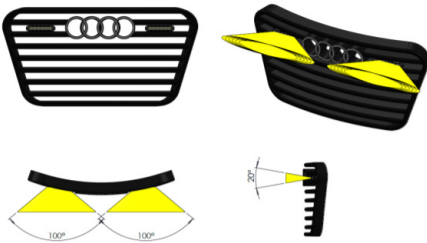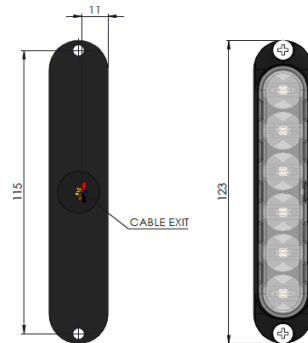

Vertical

<u>Dimensions</u>

Horizontal

Vertical

<u>Warranty and Liability</u>

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. Warranty disclaimer: brackets are not covered under warranty.

<u>Cleaning and Maintenance</u>

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