






Installation and Operation Instructions Star-M18 Miniature Covert R65 Directional LED

Product Description

The Star-M18 is a dual colour ultra slim light head, encased within a rubberised shroud that sets a new standard in versatility and functionality. Unlike other products on the market, our rubberised shroud is designed to accommodate the various windscreen curvatures found in different vehicle types. With safety in mind, the shroud is compliant with health and safety regulations, ensuring no sharp edges or hardened materials near the driver and front seat passenger.

Part Number	Colour	Voltage	Amps	Warranty
DSRX-018-BRT		11-32 VDC	300mA	3 years
DSRX-018-BWT		11-32 VDC	300mA	3 years
DSRX-018-BAT		11-32 VDC	300mA	3 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

Voltage Range	11-32VDC
Directional Type	Unique wide angle intense optic with Ultra-bright latest generation LEDs
Number of LEDs	36 ultra-bright LED
Amps / Current Peak Max	300mA
LED Power	3 watts
IP Rating	IP54 (When installed)
Approval	ECE R65 Class I (blue), 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 (approx.)	TBC
Operating Temperature	TBC
Lens Material	Perspex
Mounting	Adhesive
Warranty	3 years

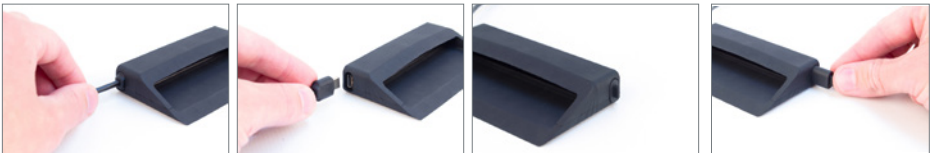
Spare Parts

Part Number	Description
SP_STARM18-SHD	STAR-M18 RUBBER SHROUD ENCLOSURE (BLACK)
SP_STAR-PLUG	STAR-M6/M18 USB END PLUG/GROMMET (BLACK)
SP_STAR-DCL500	STAR-M6/M18 USB-C DOUBLE ENDED DAISY CHAIN LOOM (500MM)
SP_STAR-DCL2000	STAR-M6/M18 USB-C DOUBLE ENDED DAISY CHAIN LOOM (2000MM)
SP_STARM18TINT1	STAR-M18 VINYL TINT SCREEN LABEL
SP_POWERPRIMERSACHET	POWER-PRIMER SACHET WIPE

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 1 second to revert to quad flash (pattern 1)
Synchronisation	Yellow Wire	Link to other Redtronic products to synchronise / sync to -Ve will enter CRUISE / GATSO mode
Configuration	Green Wire	Colour function selection

Swapping cable exit

It is possible to swap the cable exit of the lamp from one side to the other by removing and swapping the UBC-C connector with the opposing plug/grommet. It is important to properly align the USB-C connector with the counter socket before applying too much pressure to lock into position.



Installation

Connecting the Star-M18 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 Star-M18 directionals are set to quad flash pattern as default before leaving the factory.

To set colours: 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 M18 will activate in either a flashing or steady burn (GATSO) option, these are colour select modes. Scroll through the optional 'colour programs' by applying the **brown wire** to positive [+ve] momentarily.

Single Colour Flash	Colour 1	Colour 2	Off		
Steady Burn	Colour 1	Colour 2			
Single Colour Flash (Extra)	Colour 1	Colour 1 & 2	Colour 2	Off	Off

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 M18 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 M18 will start a quick succession of flashes. Remove the **brown wire**, the unit should now be flashing alternately to any M18 it synchronises with. To set the flash pattern: With the M18 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. 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 Star-M18 will return to full brightness when the blue wire is disconnected.

To synchronise M18's: When the desired flash pattern and mode has been set, connect the **yellow wire** from each M18 together, this will ensure all M18 flash in synchronised format. Note: Do not apply **yellow wire** to positive [+ve]. Do not attempt to sync Redtronic products with any other manufacturer's products.

Window Installation

STEP 1:

Offer the Star-M18 up against the intended position on the window and ensure it is aligned to a 90° angle to maximise the performance of the light. (If the standard 90° enclosure is not suitable and the part needs its angle adjusting, please contact us for further information/advice.)

STEP 2:

Offer the vinyl tint strip (supplied in kit of parts) against the window to determine its exact position. (It is recommended to use masking tape on the exterior of the window to mark where the Star-M18 will be positioned as a visual reference for when the vinyl tint is applied internally.) Ensure the vinyl tint strip is the correct size for the intended location. (In most cases installers will need to cut the vinyl strip into shape according to the contours of the window. Redtronic recommend using scissors and all necessary PPE.)

STEP 3:

With a porous sponge, clean the surface with water and leave the surface wet so you can manipulate the vinyl into its position.

STEP 4:

Remove the adhesive protection film from the vinyl and start to apply one side to the surface slowly using a squeegee (tool) until the entire vinyl strip is in position. The squeegee needs to be at a 45° degree angle to the direction of travel.

STEP 5:

Ensure the vinyl is free of air traps by using the squeegee.

STEP 6:

Allow to dry for approximately 30 minutes and ensure no air traps have returned.

STEP 7:

Using the Power-primer wipe (in the sachet provided) apply surface treatment primer to the rear of the vinyl tint to improve adhesion of the Star-M18.

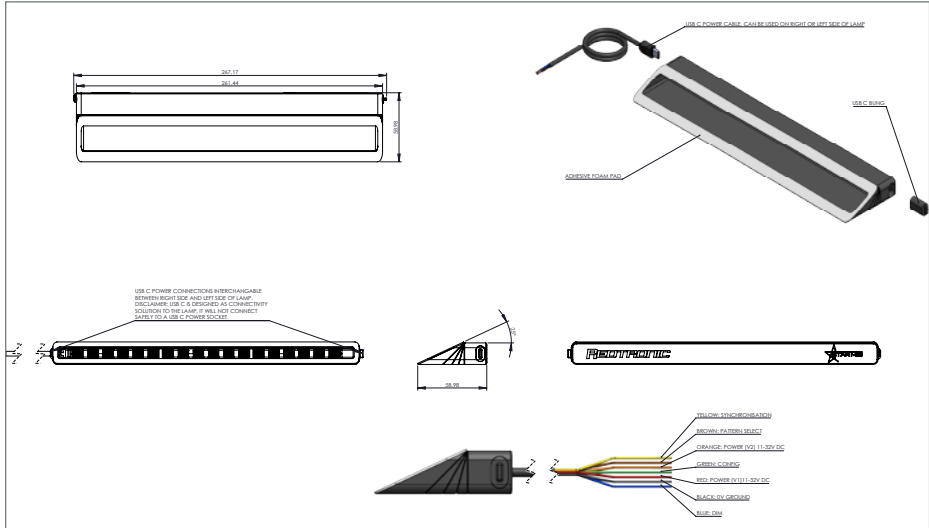
STEP 8:

Remove the adhesive protection film from the perimeter of the Star-M18 shroud.

STEP 9:

With a firm grip, apply the Star-M18 on the back of the vinyl tint, ensuring the shroud aligns perfectly with the inner window section on the vinyl.

INSTALLATION DIAGRAM



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: shrouds / mounting pods and brackets are not covered under warranty.