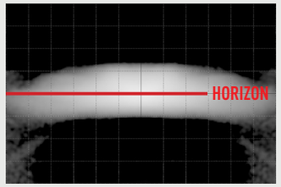
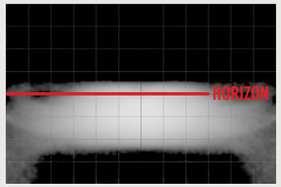
BEAM PATTERNS

CARBON DRIVE

HIGH BEAM / BOOST

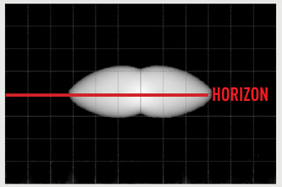


DIP / LOW BEAM

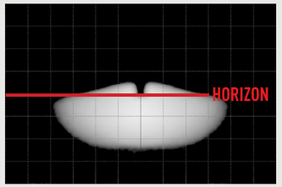


CARBON SPOT

HIGH BEAM / BOOST



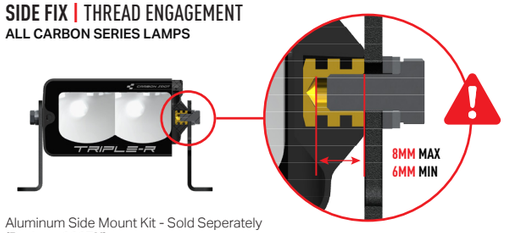
DIP / LOW BEAM



MOUNTING INSTRUCTIONS

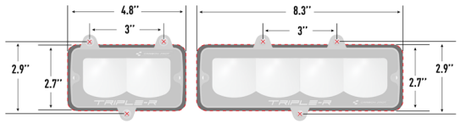
SIDE FIX | THREAD ENGAGEMENT

ALL CARBON SERIES LAMPS



Aluminum Side Mount Kit - Sold Seperately
(Part no. 1117K)

FRONT FIX | CUT-OUT GEOMETRY



CARBON-2 CARBON-4

FINE ADJUSTMENT SCREW

CARBON-6
RALLY POD

1 Turn = 0.83° of **up** (anti-clockwise) or **down** (clockwise) adjustment.

CARBON-2 & CARBON-4
FRONT FIX

Spring Free Length: 31.75mm
Pre-Loaded Length: 25.25mm
Spring Compressed Length: 12.5mm

1 Turn = 0.25° of adjustment.

ACCESSORIES

ACCESSORIES AND MOUNTS

WIRING KITS

RALLY PODS

UNIVERSAL RALLY KITS

TRIPLE-R
HIGH PERFORMANCE LIGHTING

CARBON SERIES
INSTRUCTIONS

TRIPLE-R
HIGH PERFORMANCE LIGHTING

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Triple-R Lights LLC, 600 North Bullard Avenue,
Suite 6, Goodyear, AZ 85338, USA

UK BUILT | US DRIVEN /TRIPLERLIGHTS

ELECTRICAL CONNECTION

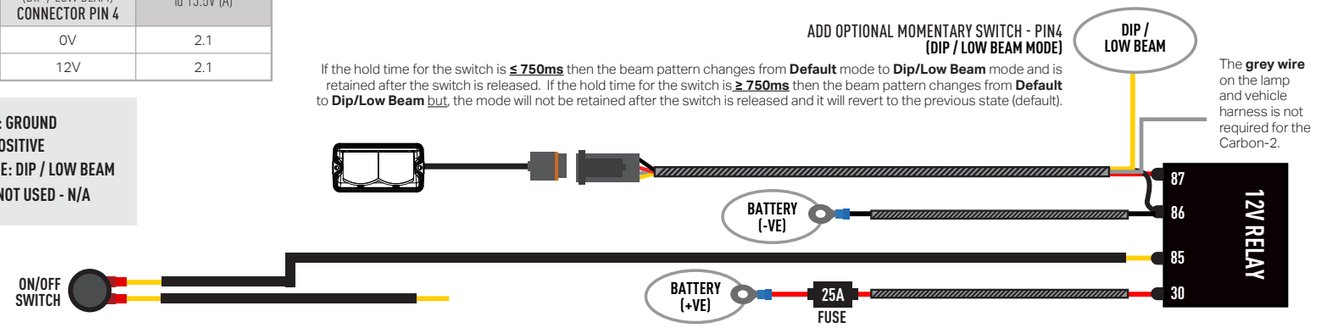
LAMP MODE	INPUT SIGNAL YELLOW WIRE (DIP / LOW BEAM) CONNECTOR PIN 4	CARBON-2 CURRENT DRAW @ 13.5V (A)
HIGH BEAM	0V	2.1
DIPPED BEAM	12V	2.1

- BLACK WIRE: GROUND
- RED WIRE: POSITIVE
- YELLOW WIRE: DIP / LOW BEAM
- GREY WIRE: NOT USED - N/A

DEUTSCH DT (4-PIN) | CARBON-2 (GEN3)

ADD OPTIONAL MOMENTARY SWITCH - PIN4
(DIP / LOW BEAM MODE)

If the hold time for the switch is **≤ 750ms** then the beam pattern changes from **Default** mode to **Dip/Low Beam** mode and is retained after the switch is released. If the hold time for the switch is **≥ 750ms** then the beam pattern changes from **Default** to **Dip/Low Beam** but, the mode will not be retained after the switch is released and it will revert to the previous state (default).



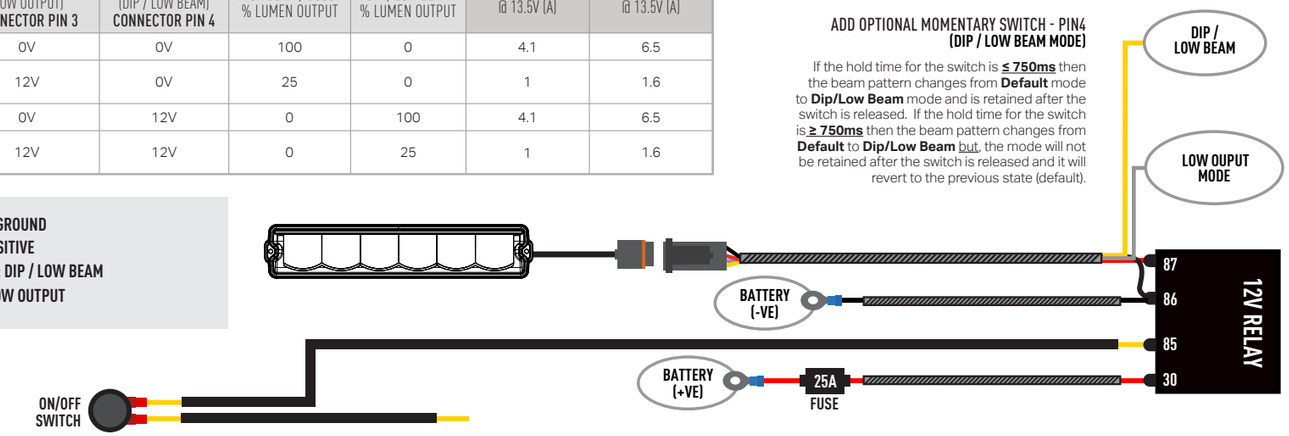
LAMP MODE	INPUT SIGNAL GREY WIRE (LOW OUTPUT) CONNECTOR PIN 3	INPUT SIGNAL YELLOW WIRE (DIP / LOW BEAM) CONNECTOR PIN 4	BEAM PATTERNS HIGH BEAM / BOOST % LUMEN OUTPUT	BEAM PATTERNS DIP / LOW BEAM % LUMEN OUTPUT	CARBON-4 CURRENT DRAW @ 13.5V (A)	CARBON-6 CURRENT DRAW @ 13.5V (A)
HIGH BEAM	0V	0V	100	0	4.1	6.5
HIGH BEAM (REDUCED OUTPUT)	12V	0V	25	0	1	1.6
DIPPED BEAM	0V	12V	0	100	4.1	6.5
DIPPED BEAM (REDUCED OUTPUT)	12V	12V	0	25	1	1.6

- BLACK WIRE: GROUND
- RED WIRE: POSITIVE
- YELLOW WIRE: DIP / LOW BEAM
- GREY WIRE: LOW OUTPUT

DEUTSCH DT (4-PIN) | CARBON-4 AND CARBON-6 (GEN3)

ADD OPTIONAL MOMENTARY SWITCH - PIN4
(DIP / LOW BEAM MODE)

If the hold time for the switch is **≤ 750ms** then the beam pattern changes from **Default** mode to **Dip/Low Beam** mode and is retained after the switch is released. If the hold time for the switch is **≥ 750ms** then the beam pattern changes from **Default** to **Dip/Low Beam** but, the mode will not be retained after the switch is released and it will revert to the previous state (default).

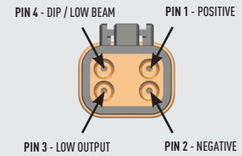


PWM INFORMATION (CARBON-4 AND CARBON-6 ONLY)

Some race teams may wish to activate the different modes of these lamps by using a PWM signal. PIN 3 is PWM capable, so race teams should use a 100Hz PWM frequency, in order to obtain different beam patterns. See table.

PWM SIGNAL REQUIREMENTS	
PWM SIGNAL FREQUENCY	100 Hz
TOLERANCE DUTY CYCLE	±2%

DEUTSCH DT (4-PIN) CONNECTOR



INPUT SIGNAL 12V PWM SIGNAL ON **PIN 3** (LOW OUTPUT) DUTY CYCLE %	INPUT SIGNAL VOLTAGE ON **PIN 4** (DIP / LOW BEAM)	BEAM PATTERNS HIGH BEAM % LUMEN OUTPUT	BEAM PATTERNS DIP / LOW BEAM % LUMEN OUTPUT	CARBON-4 CURRENT DRAW @ 13.5V (A)	CARBON-6 CURRENT DRAW @ 13.5V (A)
0	0V	100	0	4.1	6.5
10	0V	90	0	3.7	5.9
18	0V	80	0	3.3	5.2
26	0V	70	0	2.9	4.6
34	0V	70	30	4.1	6.5
42	0V	70	40	4.6	7.2
50	0V	60	60	5	7.8
58	0V	40	70	4.6	7.2
66	0V	30	70	4.1	6.5
74	0V	0	80	3.3	5.2
82	0V	0	90	3.7	5.9
90	0V	0	100	4.1	6.5
100	0V	25	0	1	1.6
0	12V	0	100	4.1	6.5
10	12V	0	95	3.9	6.2
18	12V	0	90	3.7	5.9
26	12V	0	85	3.5	5.5
34	12V	0	80	3.3	5.2
42	12V	0	75	3.1	4.9
50	12V	0	70	2.9	4.6
58	12V	0	65	2.7	4.2
66	12V	0	60	2.5	3.9
74	12V	0	55	2.3	3.6
82	12V	0	50	2.1	3.3
90	12V	0	45	1.9	2.9
100	12V	0	25	1	1.6