DUAL COLOUR · 3+3 LED DUAL COLOUR LIGHTHEAD

WIRING

To Chassis Ground:...................................... **BLACK**

To+VDC for Warning Mode❶ (fuse @ 1A):......... **RED**
Default Colour Mode - Colour 1

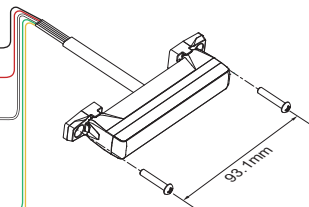**To+VDC for Warning Mode❷ (fuse @ 1A):**..... WHITE
Default Colour Mode - Colour 2

(To+VDC for Warning Mode❸:...........**RED**+WHITE)
Default Colour Mode - Colour 1 alt. 2
Order of Precedence: Mode❸ > Mode❶ = Mode❷ > Cruise Mode

To+VDC for Cruise Mode (fuse @ 1A):........... **GREEN**

For Synchronization and Flash Pattern:...**YELLOW**
Connect **YELLOW** wires of all lightheads together for synchronization.
(All lightheads should be set to the same Flash Pattern)

OPERATION

For Flash Pattern Selection:
Each Warning Mode may select and save one Flash Pattern. While activating a Warning Mode, momentarily apply **YELLOW** wire to **+VDC**:
- Once to next pattern.
- Quick three times to the default Flash Pattern (FP#1).
  (refer to Flash Pattern Chart)

For Simultaneous or Alternating Synchronization:
1. Apply **+VDC** to **RED** (or WHITE or **RED**+WHITE) and **YELLOW** wires simultaneously to enter *SETTING MODE*; the lighthead will display short flashes:
   - Single flash = Group 1   • Double flash = Group 2
2. Remove **YELLOW** wire from **+VDC** then momentarily apply to **+VDC** again for more than 3 seconds to change Groups:
   - Lightheads of the same Group will flash together.
   - Lightheads of the different Group will flash alternately.
3. Save and exit *SETTING MODE* by disconnecting all power.
NOTE: All warning modes share the same Group setting.

For Color Mode Setting:
1. Each Warning Memory may select and save one Colour Mode. Apply **+VDC** to **RED** (or WHITE or **RED**+WHITE) and **YELLOW** wires simultaneously to enter *SETTING MODE*; the lighthead will display its current Colour Mode:
   - Single Colour flashing Color 1   = Color 1
   - Single Colour flashing Color 2   = Color 2
   - Dual Colour flashing Color 1   = Color 1 alt. 2
   - Dual Colour flashing Color 2   = Color 2 alt. 1
2. Remove **YELLOW** wire from **+VDC** then momentarily apply to **+VDC** for less than 3 seconds to change Colour Mode.
3. Save and exit *SETTING MODE* by disconnecting all power.

Reset to Factory Default Settings:
1. Apply **+VDC** to **RED** (or WHITE or **RED**+WHITE) and **YELLOW** wires simultaneously to enter *SETTING MODE*;
2. Remove **YELLOW** wire from **+VDC** then momentarily apply to **+VDC** again for more than 5 seconds. The lighthead will display fast short flashes to signify restoring successfully.
3. Save and exit *SETTING MODE* by disconnecting all power.

	Flash Pattern (Dual Colour)							
1	Double	[2Hz]	8	Double	[SAE]	15	Single-Quad	22	Triple-Triple Fast
2	Single	[2Hz]	9	Triple	[SAE]	16	Single H/L	23	Quint-Triple
3	Triple	[2Hz]	10	Quad	[SAE]	17	Single-Triple-Quint	24	7-1 Flash
4	Quad	[2Hz]	11	Quint	[SAE]	18	Steady Scene	25	7-1 Flash #
5	Random		12	Mega		19	Single-Single	26	Quad-Single
6	Steady EF*		13	Giga		20	Double-Double	27	Quad-Single#
7	Single	[SAE][CA13]	14	Ultra	[SAE]	21	Triple-Triple Mid	28	Quint-Quint

FP#19~28 will always operate in dual colour.
* For use with external flash controller.   # Inverted colour mode.

SINGLE COLOUR · 6 LED SINGLE COLOUR LIGHTHEAD
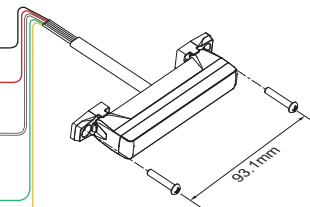
WIRING

To Chassis Ground:...................................... **BLACK**

To+VDC for Warning Mode (fuse @ 2A):............... **RED**
Apply **+VDC** to **RED** wire for High Power Operation (100%).

For Low Power Operation:............................. WHITE
Apply **+VDC** to WHITE wire while **RED** wire is activated for Low Power Operation (40%).

To+VDC for Cruise Mode (fuse @ 2A):............ **GREEN**
Order of Precedence: Warning Mode > Cruise Mode

For Synchronization and Flash Pattern:....**YELLOW**
Connect **YELLOW** wires of all lightheads together for synchronization.
(All lightheads should be set to the same Flash Pattern)

OPERATION

For Flash Pattern Selection:
Each Warning Mode may select and save one Flash Pattern. While activating a Warning Mode, momentarily apply **YELLOW** wire to **+VDC**:
- Once to next pattern.
- Quick three times to the default Flash Pattern (FP#1).
  (refer to Flash Pattern Chart)

For Simultaneous or Alternating Synchronization:
1. Apply **+VDC** to **RED** and **YELLOW** wires simultaneously to enter *SETTING MODE*; the lighthead will display short flashes:
   - Single flash = Group 1
   - Double flash = Group 2
2. Remove **YELLOW** wire from **+VDC** then momentarily apply to **+VDC** again for more than 3 seconds to change Groups:
   - Lightheads of the same Group will flash together.
   - Lightheads of the different Group will flash alternately.
3. Save and exit *SETTING MODE* by disconnecting all power.

Reset to Factory Default Settings:
1. Apply **+VDC** to **RED** and **YELLOW** wires simultaneously to enter *SETTING MODE*;
2. Remove **YELLOW** wire from **+VDC** then momentarily apply to **+VDC** again for more than 5 seconds. The lighthead will display fast short flashes to signify restoring successfully.
3. Save and exit *SETTING MODE* by disconnecting all power.

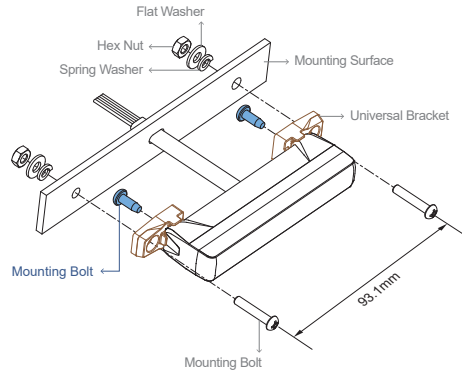|	Flash Pattern (Single Colour)				
1	Double	[2Hz]	10	Quad	[SAE]
2	Single	[2Hz]	11	Quint	[SAE]
3	Triple	[2Hz]	12	Mega	
4	Quad	[2Hz]	13	Giga	
5	Random		14	Ultra	[SAE]
6	Steady EF*		15	Single-Quad	
7	Single	[SAE][CA13]	16	Single H/L	
8	Double	[SAE]	17	Single-Triple-Quint	
9	Triple	[SAE]	18	Steady Scene	

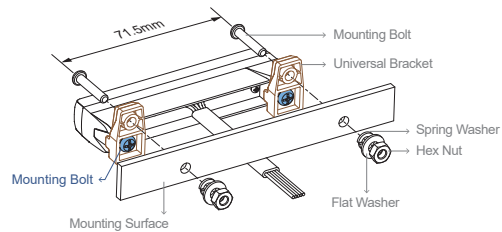* For use with external flash controller.

INSTALLATION

Universal Bracket (Multi-Angle)

NOTE:
Tighten the mounting bolts with the suggested range of torque value:
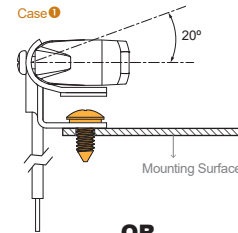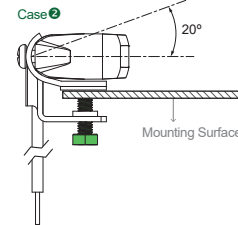7.5~15 kgf-cm (6.5~13 lbf-in).

Flat Washer
Hex Nut
Spring Washer
Mounting Surface
Universal Bracket
Mounting Bolt
93.1mm
Mounting Bolt

OR

71.5mm
Mounting Bolt
Universal Bracket
Spring Washer
Hex Nut
Mounting Bolt
Flat Washer
Mounting Surface

Adjustable Bracket (Optional)

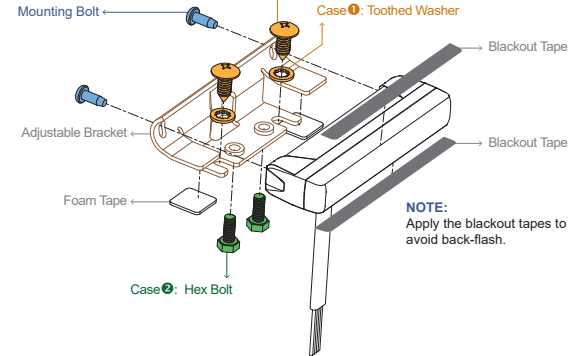The angle of lighthead is adjustable up to 20 degree for optimum warning efficiency.

Case❶
20º
Mounting Surface

OR

Case❷
20º
Mounting Surface

NOTE:
Tighten the mounting bolts with the suggested range of torque value:
7.5~15 kgf-cm (6.5~13 lbf-in).

Case❶: Mounting Screw
Case❶: Toothed Washer
Mounting Bolt
Blackout Tape
Adjustable Bracket
Blackout Tape
Foam Tape
NOTE:
Apply the blackout tapes to avoid back-flash.
Case❷: Hex Bolt

L-Bracket (Front / Rear)

NOTE:
Tighten the mounting bolts with the suggested range of torque value:
7.5~15 kgf-cm (6.5~13 lbf-in).

48mm
Mounting Bolt
Mounting Bolt
L-Bracket
Mounting Surface
Spring Washer
Flat Washer
Hex Nut

OR

Hex Nut
Mounting surface
Flat Washer
Spring Washer
L-Bracket
Mounting Bolt
95mm

FDPARTS A/S