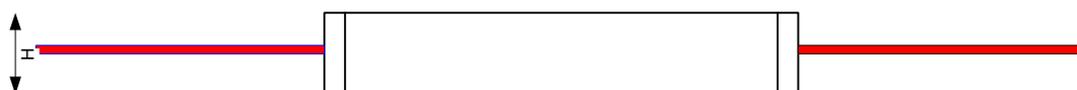
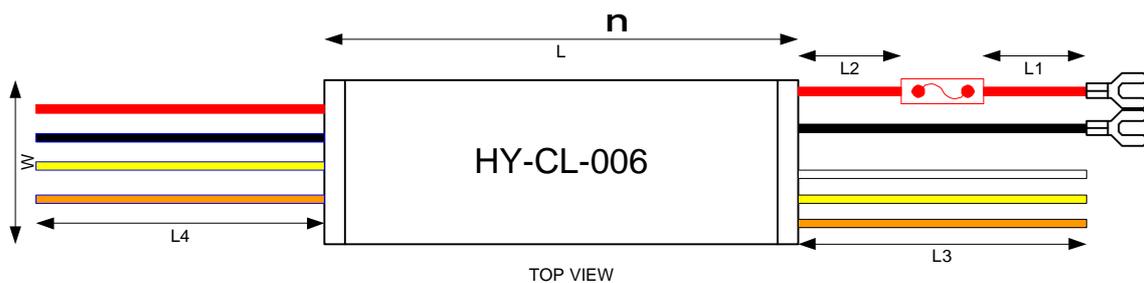


### Description

The HY-CL-006 is an automotive startup detector control box. It can detect states of automotive battery and control external parts (such as DRL) to startup while automotive startup. HY-CL-006 operating voltage power is 12VDC and the maximum output current is 0.75A. 5 input signals to control DC out or turn off external parts or reduce brightness of external LED parts and indicator active function, especially for DRL function on Automotive. Reverse connection protection function to avoid module or equipment damage while users install this module with wrong direction of power.

### Outline Dimension



- L : 50 mm
- W : 20 mm
- H : 11.5 mm
- L1 : 150 mm
- L2 : 250 mm
- L3 : 200 mm
- L4 : 130 mm

COLOR : PURPLE  
MATERIAL: Aluminum

### Features

- n Operation voltage 12VDC.
- n Maximum Output current 0.75A
- n Reverse Polarity Protection.
- n Built-in indicator active function.
- n Quiescent current less than 3mA

### Applications

- n Automotive Applications.
- n Automotive LED Lighting Application.



## DIAGRAM AND SIGNAL DESCRIPTION

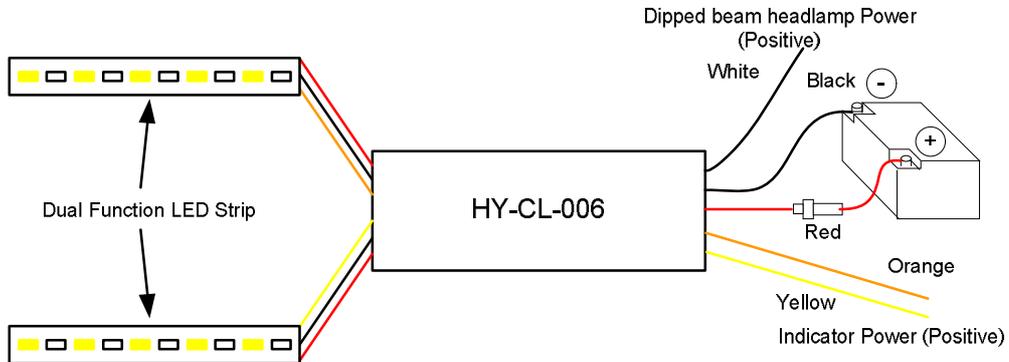
	1	IN (Red)	Connect to Battery Power Supply positive terminal (RED)
	2	IN (Black)	Connect to Battery Power Supply Negative terminal (BLACK)
	3	IN (White)	Control terminal, to control external parts turn off if set to High voltage level for type A, to reduce brightness 50% for type B. (WHITE)
	4	IN(Orange)	Connect to Right (Left) Indicator Power positive terminal (ORANGE)
	5	IN(Yellow)	Connect to Left (Right) Indicator Power positive terminal (YELLOW)
	6	OUT(Red)	Connect to external parts' power positive terminal (RED)
	7	OUT(Black)	Connect to external parts' power negative terminal (BLACK)
	8	OUT(Orange)	Connect to external Right (Left) Indicator Power positive terminal (ORANGE)
	9	OUT(Yellow)	Connect to external Left (Right) Indicator Power positive terminal (YELLOW)

## ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
$V_{IN}$	Maximum Operation Voltage	16	V
$I_{OUT}$	Maximum Output Current	0.75	A
$I_{STDBY}$	Standby Quiescent Current	3	mA

**APPLICATION**

**(Dual function LED strip for Automotive DRL & Indicator)**



※For DRL function, if user want to turn-off external parts with a signal, connect white to power of active parts. For example as above figure, connect white to dipped beam headlamp power or main beam headlamp power to turn-off external DRL automatically while turn on dipped beam headlamp or main beam headlamp for model A. For type B, brightness of DRL will be reduced 50% when turn on dipped beam headlamp or main beam headlamp. Connect orange and yellow wires to indicator power (positive) to turn on indicator and turn off DRL function during automotive indicator function active.

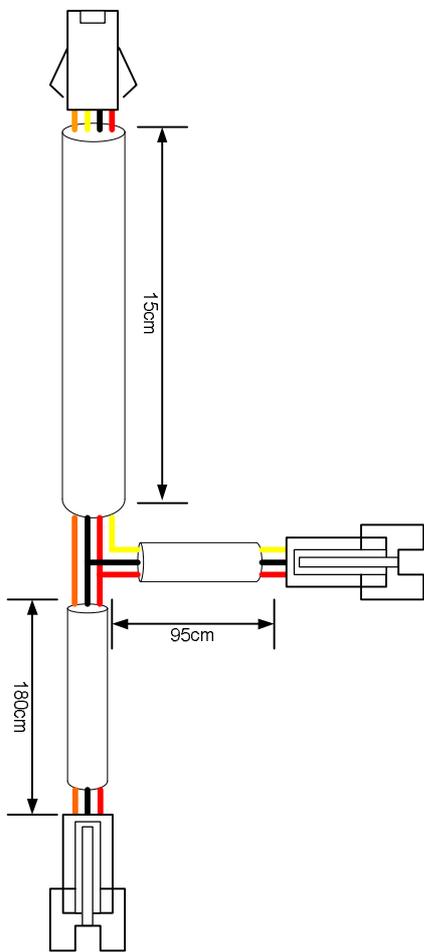


Engine start

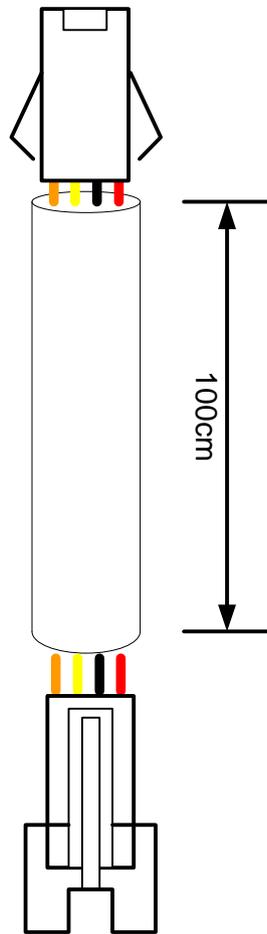


Indicator active

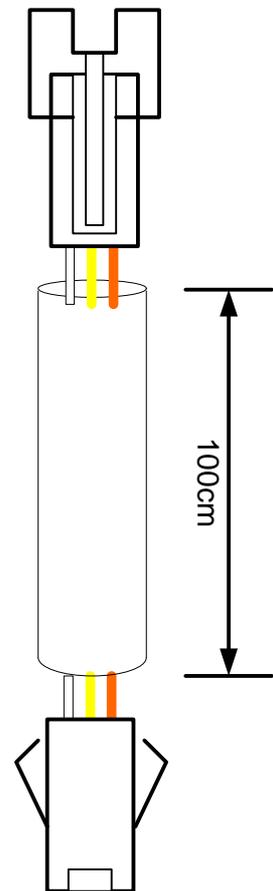
### WIRING HARNESS INFORMATION



HY-CL-006-04



HY-CL-006-06

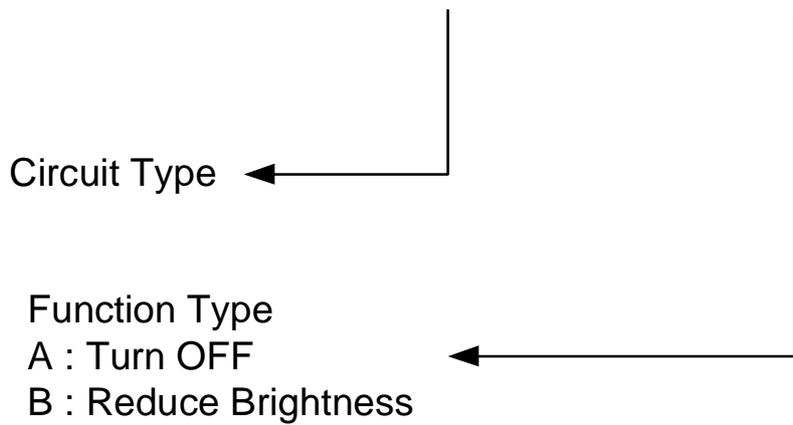


HY-CL-006-07

- U HY-CL-006-04 – Wiring harness for LED strip.
- U HY-CL-006-06 – Extended wire for output signal cable.
- U HY-CL-006-07 – Extended wire for input signal cable.

**ORDERING INFORMATION**

HY-CL-006 **A**



ORDER NUMBER	SHIPPING
HY-CL-006A/B	50 UNITS/ BOX