

HELIOS®
WARNING LIGHTS

A Brand of



3 YEAR
LIMITED
WARRANTY

IP RATED
IP67

Single & Dual

X-MOD series

Heavy Duty LED Beacons



MADE IN THE
USA

from Foreign
& Domestic Parts

USA

T: 602.424.2500

F: 602.424.9777

E: Sales@DriverIndustrial.com

CAN

T: 604.560.5080

F: 604.560.5090

E: SalesCanada@SafetyWhips.com

www.DriverIndustrial.com

USER MANUAL

PRODUCT FEATURES:

The X-MOD Series LED beacons are innovatively engineered with quality features and all components to support multiple needs for the heavy duty industrial and commercial vehicle market.

Designed and Manufactured to meet Class I/II & California Title 13 Requirements!

- ▶ Optics designed using world class "AI" computer-aided, technology-enhancing LED light efficiency to meet and exceed all industry standards.
- ▶ Every model type has a complete replaceable part structure - including the power supply & LED emitter (to replace and switch LED colors)
- ▶ All electronics were designed internally by the Driver Industrial® engineering team. Each beacon embodies an extensive list of programmable features, mounting options, and customization.
- ▶ The X-MOD light housing is water tight with a smooth, clear outer polycarbonate dome for quick and easy maintenance!

- ✔ 3 Year Warranty
- ✔ Auto Dimmer
- ✔ Single, Dual & Multi-Color LEDs



HE-XB-SPC-A

Short Profile, Permanent Mount, Clear Dome/Clear Lens
with AMBER LEDs

SPECIFICATIONS:

- ♦ Operating Voltage: **10 - 48 VDC**
- ♦ Under Voltage Cut-Off: **10 VDC**
- ♦ Current: **1.25 Amps Max (steady mode)**
- ♦ **Conforms to SAE Class I/II**
- ♦ **Conforms to California Title 13**
- ♦ **Environmental: IP67**
- ♦ Mounting Types (4):
Permanent, Magnet, Pipe, Aluminum Vehicles
- ♦ LED Colors Available (5):
Amber, White, Red, Blue, Green
- ♦ Light Height and Diameter (2):
Short Dome - 4.75"H x 6.50"D
High Dome - 6.25" x 6.50"D
- ♦ EMI Filtered: **Both input/output**
- ♦ Lens Colors Available (2):
Clear, Amber
- ♦ Night Only Operation:
Can be Active or Non-active

- ♦ Temperature Compensation:
 - Active at all times
 - Will adjust output to keep LED's in safe operation at all times
- ♦ **Dimming Mode:**
Active & Deactivated Modes -
When "Dimming" mode is active the beacon LEDs will adjust their brightness according to the ambient light (LEDs are brighter during the day and dimmer at night).
- ♦ **Night Mode:**
Active & Deactivated Modes -
When "Night" mode is active the beacon LEDs only turn on when the device is in a dark environment.

WIRING INSTRUCTIONS:

Every Permanent (Standard) X-MOD beacon comes with (3) wires that need to be connected properly to allow the light to operate with all functions available. Optional switch mount wire assembly with fuse available.

- ▶ **Red Wire (Power):**
Connect Red wire through a 5 Amp Fuse to a 12-48VDC power source through a SPST (2-10 Amp) switch.

- ▶ **Black Wire (Ground):**
Connect Black wire through to a vehicle battery ground.

- ▶ **White Wire (Mode):**
Connect White wire to the center position of a SPDT Momentary On-Off-Momentary On switch. One pole of the switch connects to B+.

Note: All the inputs are protected from reverse polarity connections.

Note: on both Single & Dual Color Beacons

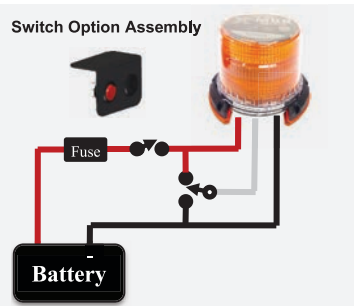
Pulling the White Wire High (to power) for > 3 seconds activates and deactivates "Night Only" operation. Activation and deactivation are indicated by a single flash of the beacon LEDs.

Pulling the White Wire Low (to ground) for > 7 seconds activates and deactivates "Dimming" mode. Activation and deactivation are indicated by a double flash of the beacon LEDs.

▶ Mode Wire (White) Functions:

Note: Mode wire needs to be connected to SPDT (Mom-Off-Mom) Switch

- ♦ **Momentarily Pulling the white wire to B+**
-- Cycles Modes
- ♦ **Pulling white wire to ground for ~3 seconds**
-- Cycles the (2) LED colors and sets alternating colors



CIGARETTE PLUG SWITCH FUNCTIONS:

Power Switch with LED Indicator:

- ▶ Function - On/Off

Mode Switch: Single LED Colored Model

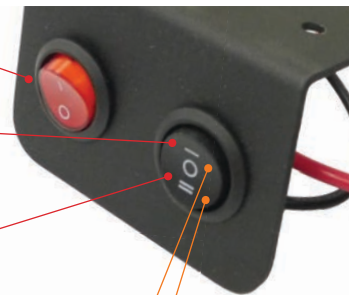
- ▶ **Single Bar**
Hold for 5~7 seconds to activate/deactivate "Dimming" mode --> The LEDs will flash twice when the change is complete.

- ▶ **Double Bar**
Quick press cycles through flash patterns. Hold for 3~5 seconds to activate/deactivate "Night only" operation.

Mode Switch: Dual LED Colored Model

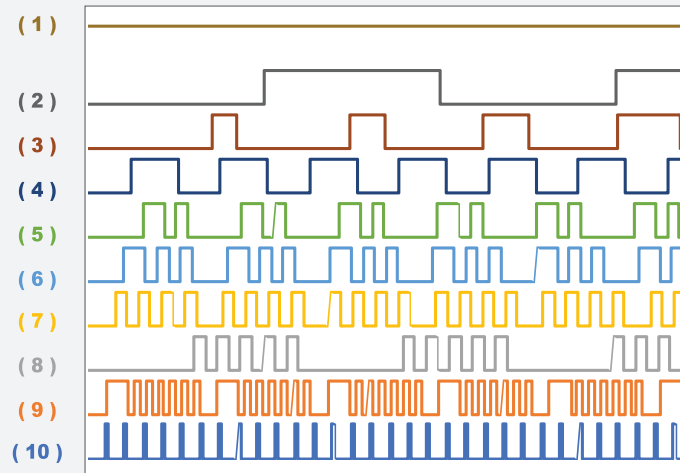
- ▶ **Single Bar**
Hold for 3~5 seconds to cycle colors. --> The LEDs will flash when change is complete. Hold for 5~7 seconds to activate/deactivate "Dimming" mode --> The LEDs will flash twice when change is complete.

- ▶ **Double Bar**
Quick press cycles through flash patterns. Hold for 3~5 seconds to activate/deactivate "Night only" operation.



Flash Patterns (10)	Pattern #
♦ Steady On	1
♦ Single Flash Delay --> 600mS (1) Delayed 2 sec	2
♦ Pulse Lengthen Mode	3
♦ Single Pulse --> 600mS (1)	4
♦ Double Pulse --> 300mS (1) x 100mS (1)	5
♦ Triple Pulse --> 300mS (1) x 100mS (2)	6
♦ Quad Pulse --> 200mS (1) x 100mS (3)	7
♦ Burp Mode --> 1 sec (1) x 10mS (10)	8
♦ Heptade Flash --> 300mS (1) x 50mS (6)	9
♦ Heart-a-tack --> 75mS (continuously)	10

Pattern #



PERMANENT INSTALLATIONS:



To install or mount the beacon to a vehicle requires (4) to (6) **#10 by 1-inch or longer hex socket head bolts**. The bolts are mounted on 6.150" circle spaced at 45 degrees apart from each other.



Each light comes with (2) **red silicone mounting pads**, which seal the screws that interface to a vehicle hood. They also act as a vibration dampener for heavy vibration applications.



Adhesive **permanent** option is offered for vehicle owners who do not want to drill holes on a vehicle. They can also be used on *aluminum constructed vehicles* for permanent and magnet mountable applications. The plates have VHB adhesive attached that can be secured to the vehicle surface. They can also be easily removed when required.



There is an optional **Pipe Mount** kit that will allow you to mount the light to a 1-inch NTP pipe. Kits come with all hardware needed.



OPTIONAL ACCESSORIES & REPLACEMENT PARTS:

A	HE-XBP-SC	Short Profile, Clear Dome Lens Cover
B	HE-XBP-HC	High Profile, Clear Dome Lens Cover
C	HE-XBP-SLX	Short Profile, 4" Lens (clear or amber)
D	HE-XBP-HLX	High Profile, 6" Lens (clear or amber)
E.1	HE-XBP-ESX	Beacon Single LED Emitter Kit - includes (1) Emitter Lock Screw (E.2)
E.1	HE-XBP-EDXX	Beacon Dual LED Emitter Kit - includes (1) Emitter Lock Screw (E.2)
F.1	HE-XBP-DS	Beacon Single LED Driver Kit - includes (2) Potting Tray Screws (F.2)
F.1	HE-XBP-DD	Beacon Dual LED Driver Kit - includes (2) Potting Tray Screws (F.2)

x = Color (A-Amber, R-Red, G-Green, W-White, B-Blue, C-Clear)

G.1	HE-XBP-UB	Beacon Universal Base Kit: includes (1) Beacon O-Ring Seal (G.2)
H	HE-XBP-PM	Permanent Mount Silicone Pad
I	HE-XBP-PIM	1" Pipe Mount
J.1	HE-XBP-MP	Permanent Mount Power Cord Harness Kit - includes (1) Power Cord Harness Screw (J.2)
	HE-XBP-MPCP	Main Power Cord for connection with Cigarette Plug Power Cord - includes (1) J.2
K	HE-XBP-ALM	Base Kit for Aluminum Trucks
L	HE-XBP-MM	STD Magnet Mount Kit
M	HE-XBP-CP	2-Switch Cigarette Plug Power Cord
N	HE-XBP-SW2	Single & Dual Color 2-Switch Assembly

X-MOD BEACON PART # MATRIX:

BRAND DENOMINATOR:

HE XB H P A - W

Type / Series:

XB = X-MOD Beacon

Profile:

S = Short Profile Lens/Dome (4")
H = High Profile Lens/Dome (6")

Mounting Options:

P = Permanent
M = Magnetic
PI = Pipe

Fresnel Lens Color:

C = Clear (default)
A = Amber
B = Blue (available upon request "High Volume")
G = Green (available upon request "High Volume")
R = Red (available upon request "High Volume")

LED Color: (single & dual color)

A = Amber
B = Blue
G = Green
R = Red
W = White
GW = Green/White (Dual Color Combinations)
RGB = Multi-Color
ROA = Rotating Amber (Single Color)
ROGW = Rotating Green/White (Dual Color Combinations)
RORGB = Rotating Multi-Color

Full Color LED Options:



Dual Colors Available!



**Overmolded
Magnetic Feet!**

**Safe to use
at speeds of
121 kmh!
(75 mph)**





X-MOD series

HELIOS®
WARNING LIGHTS

A Brand of



www.DriverIndustrial.com

USA
602-424-2500
Sales@DriverIndustrial.com

CANADA
604-560-5080
SalesCanada@SafetyWhips.com