

## ROBUST FLAGMAN

Code: BAN-ROB165



### WHAT'S A ROBUST FLAGMAN?

It is a rigid mannequin uniformed with reflective sheeting a traffic flag on its right hand to move, and a solar cell on its left hand.

Ballast base to prevent the mannequin to fall down.

Ideal height and reflectivity that optimize visibility at long distances.

Excellent to use in work areas, gas stations, scholar zones and dangerous crossings.

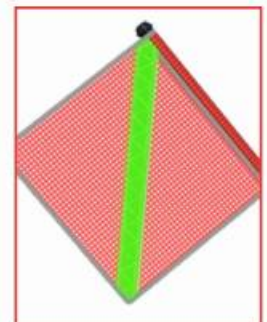
**Traffic flag has a brushless motor that increase durability and provides a functionality of approximately 6 years with a 24 continuous operation. Brushed motors have a lifespan of approximately 3 to 6 months.**

### FEATURES

- High resistance rotomolding body in yellow or orange color.
- Turtle type base, with ballast for better balance and prevent the mannequin to fall-down due to wind.
- The mobility in its right arm, is due to a movement activating motor.
- Traffic flag is made of sport mesh in fluorescent orange, with silver strip in its perimeter and a diagonal line of prismatic reflective in fluorescent green in both sides.
- Its left arm has a solar cell to power with.
- Option to include an affordable warning light or a GO sign (not included).
- Dressed with reflective to improve visibility.
- Flashing eyes composed by 2 ultrabright LEDs in amber or white color covered by optics to diffuse light (optional).

#### SOLAR LIGHTING SYSTEM

- 12V battery.
- 12 Volts electronic motor system, brushless motor for a long life span.
- ON/OFF switch.
- 420 x 360 mm solar cell.
- JVM circuit.
- 24 hours of continuous operation.
- Solar load controller.



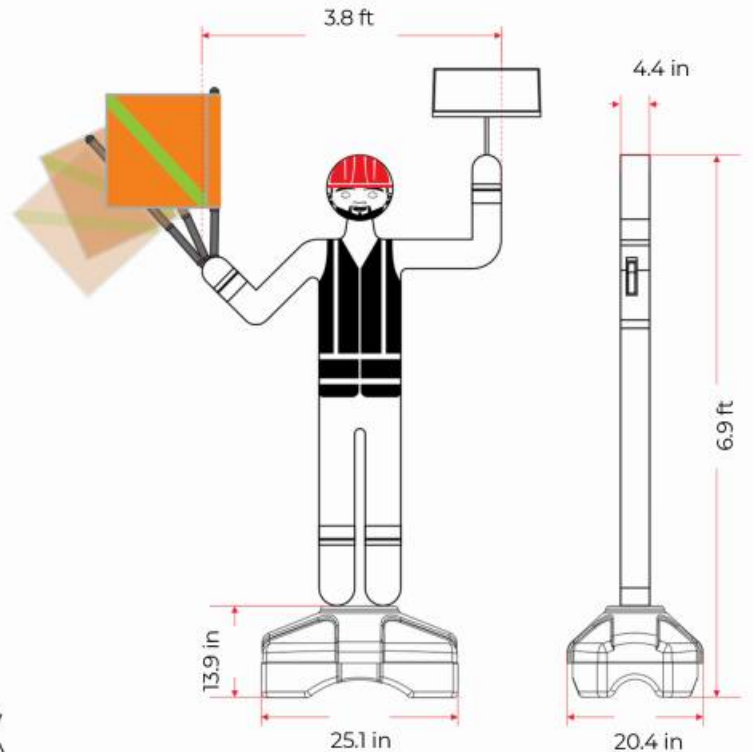
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### MEASUREMENTS

Dimensions and other measures are nominal and may vary by + - 2%.

- Base**
    - Length: 25.1 in
    - Width: 20.4 in
    - Height: 13.9 in
  - Flagman**
    - Mannequin's Height: 5.7 ft
    - Total Height: 6.9 ft
  - Ballast**
    - Sand
  - Approx. weight**
    - 66.1387 lb
  - Reflective**
    - White or amber color
  - Traffic flag**
    - 17.7 in x 17.7 in x 29.5 in
  - Solar cell**
    - Maximum Power (Pmax): 20W
    - Maximum Power Voltage (Vmp): 18V
    - Maximum Power Current (Imp): 1.14A
    - Short Circuit Current (Isc): 21V
    - Open Circuit Voltage (Voc): 1.21A
    - Maximum System Voltage: 1000VDC
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- Cell Temperature: -40 °C to +85 °C
  - Fuse Rating: 10A
  - Fire Rating: A



### SOLAR LOAD CONTROLLER

- **LCD 12V/24V 30A**
  1. Integrated industrial microcontroller.
  2. Liquid Crystal Display, all the adjustable parameters.
  3. 4-stage PWM charge management
  4. Incorporated protection against short circuits, protection against open circuit, reverse.
  5. Protection against overcurrent.
  6. Dual protection of Mosfet reverse current, low heat generation.



**Motor of: 12 V.**  
**18-20 RPM (revolutions per minute).**  
 Brushless Assembly motor that provides a functionality of approximately 6 years working 24 hours daily.

