



# INSTRUCTION MANUAL

Smart Proximity Detection System (SPDS) User Manual  
Virtual Sign Kit - Intersection Management



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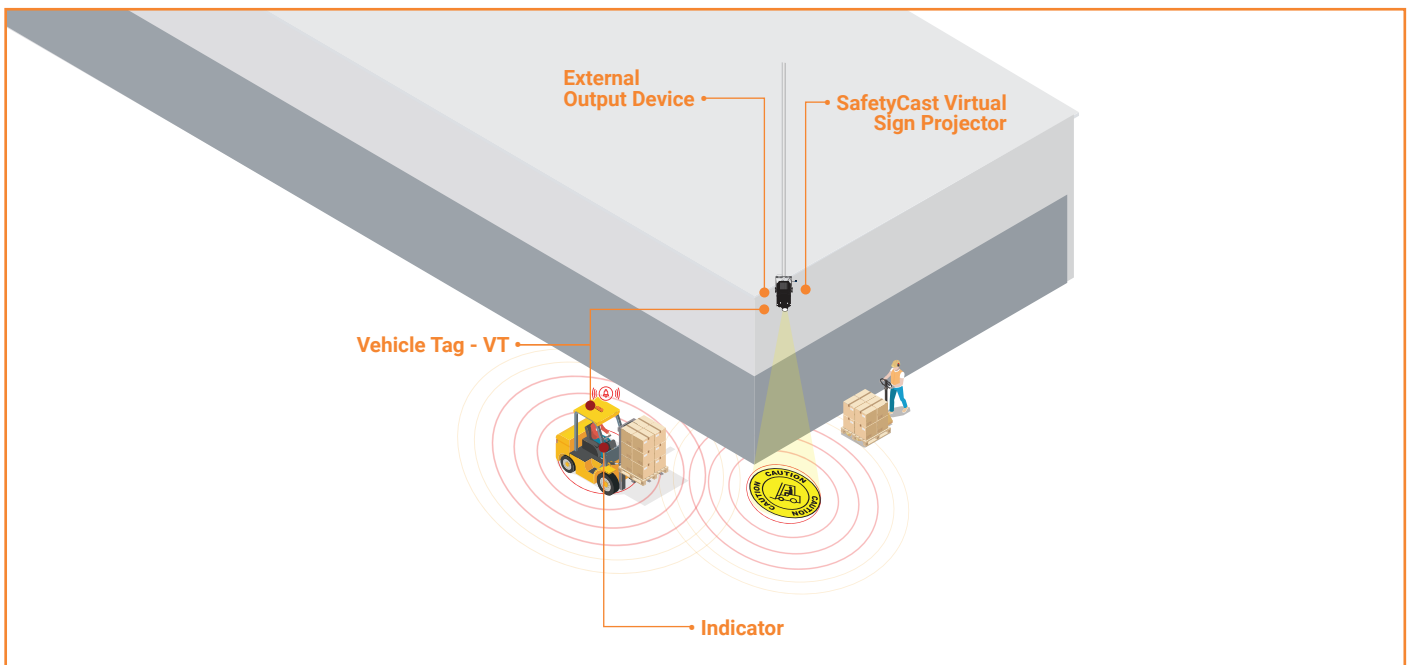


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## Overview

A fixed in place SafetyCast Virtual Sign Projector with a vehicle tag is installed at the intersection which creates a 360 detection zone around it. This Virtual Sign Projector constantly communicates, monitors and detects vehicles fitted with a vehicle tag. The system will detect its presence and warn drivers approaching so that they can take the necessary precautions.





# Specifications

| Specification SPDS    | Vehicle Tag (VT)  | Specification Projectors  | 80W Projector  | 300W Projector  |
|-----------------------|---|---------------------------|--|---|
| Product Image         |  | Product Image             |  |  |
| Input Voltage         | 12/24 V DC (9-32 V DC)  | Type of Light Source:     | High Performance LED   | High Performance LED  |
| Current Draw          | 300 mA  | Light Source Life:        | 30,000+ hours  | 30,000+ hours   |
| Interface             | CAN Bus 2.0   | Light Colour Temperature: | 6,000 K  | 6,000 K   |
| Alert Method          | Red/green LED Flashing  | Luminous Flux:            | 12,000   | 30,000 lm   |
| Size                  | 177.8 x 84.1 x 86 mm  | Projection Distance:      | Up to 165 ft (50 m)  | Up to 230 ft (70 m)   |
| Weight                | 444 g   | Lens Angles:              | Extra Narrow: f=200mm / 15°  | Extra Narrow: f=200mm / 15°   |
| Mounting Style        | Magnetic or zip ties  | Mounting Style            | Magnetic or zip ties   | Magnetic or zip ties  |
| Operating Temperature | -30 to 85 °C  | Operating Temperature     | -10 to 50°C  | -10 to 50°C   |
| Storage Temperature   | -40 to 85 °C  | IP Rating:                | IP55   | IP55  |
| Waterproofing         | IP65  | Power Supply (included):  | 100-240 VAC nominal, 50/60 Hz, 0.67A, 80W  | 100-240 VAC nominal, 50/60 Hz, 2.5A, 300W   |
| Standard Warranty     | 12 months   | Standard Warranty         | 12 months  | 12 months   |

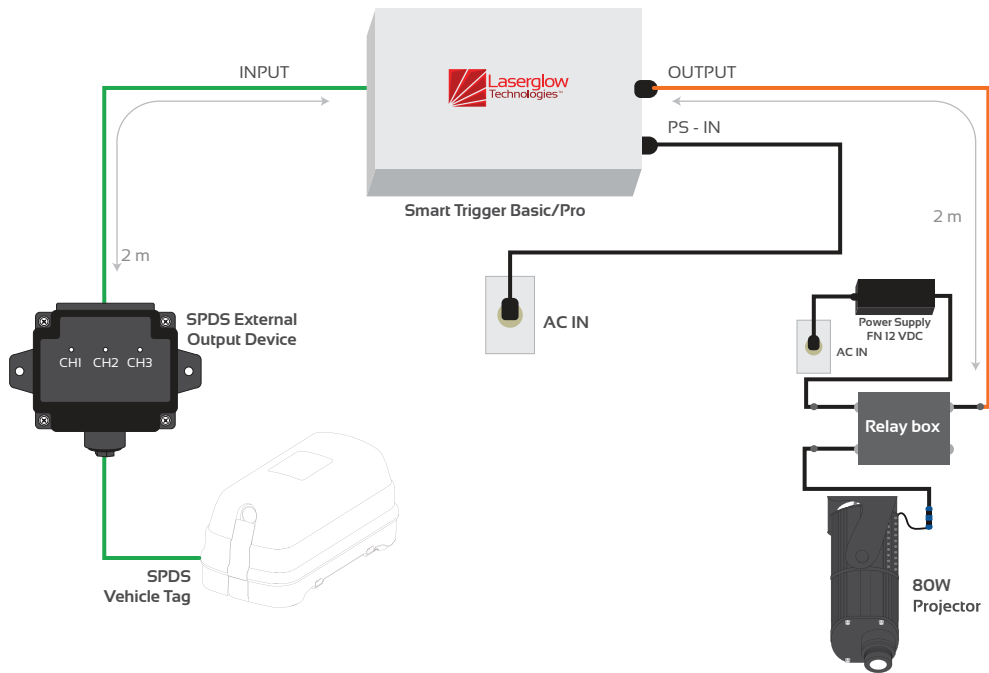
## External Output Device



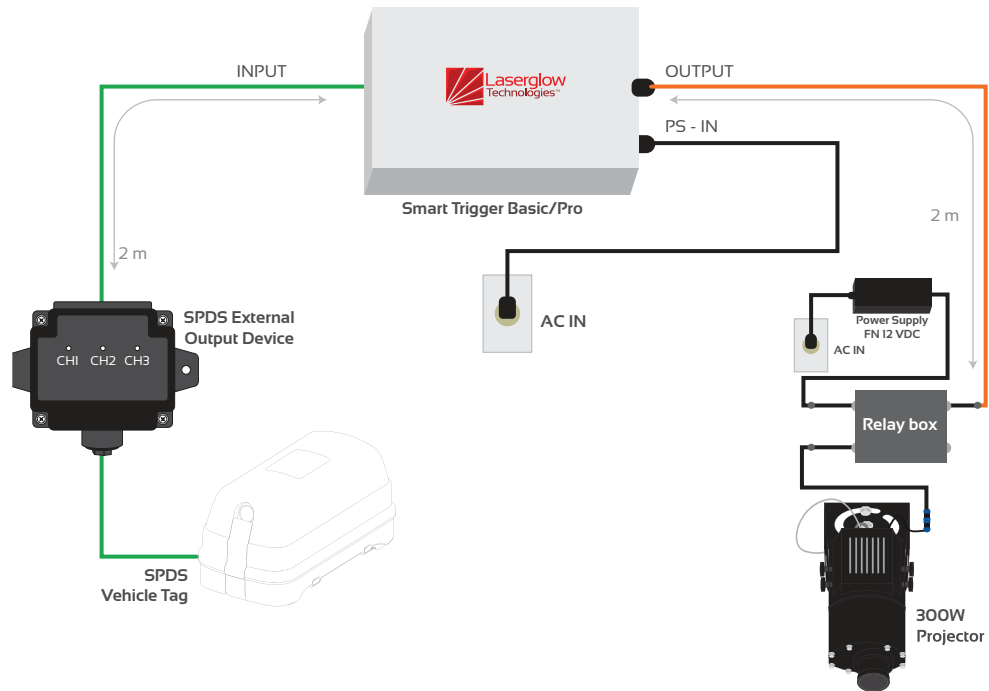
Attach additional devices to be activated or triggered by SPDS devices



# Wiring Diagram 80w



# Wiring Diagram 300w





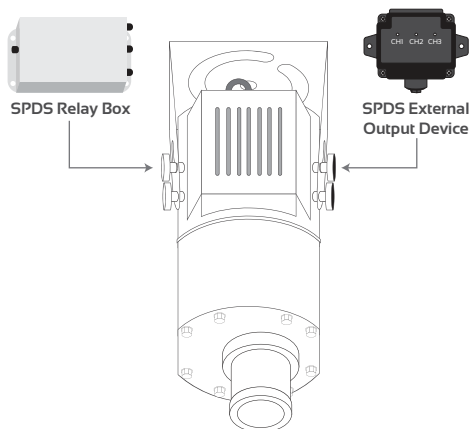
## Items Included

- Vehicle Tag
- SPDS External Output Device
- Projector
- Power Supply
- SPDS Relay Box

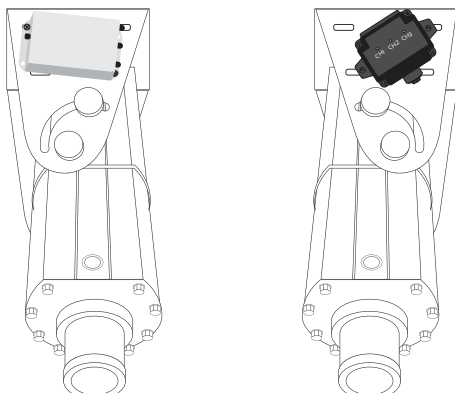
## Operating Instructions

- **How to set the distance:** It is not possible to adjust the detection radius without special hardware and software. If detection distance changes are required, contact Laserglow or your authorized distributor to arrange for the Vehicle Tag to be returned for setting adjustment.
- **What happens when forklift is detected:** The projector will turn on and remain on until the forklift leaves the detection zone.

## Mounting Instructions

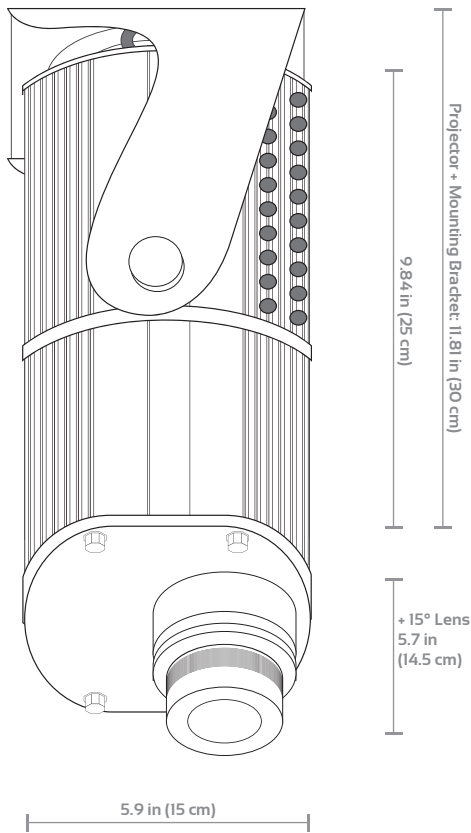


The Vehicle Tag (VT) should be mounted close to the projector so that there are no line-of-sight obstructions.

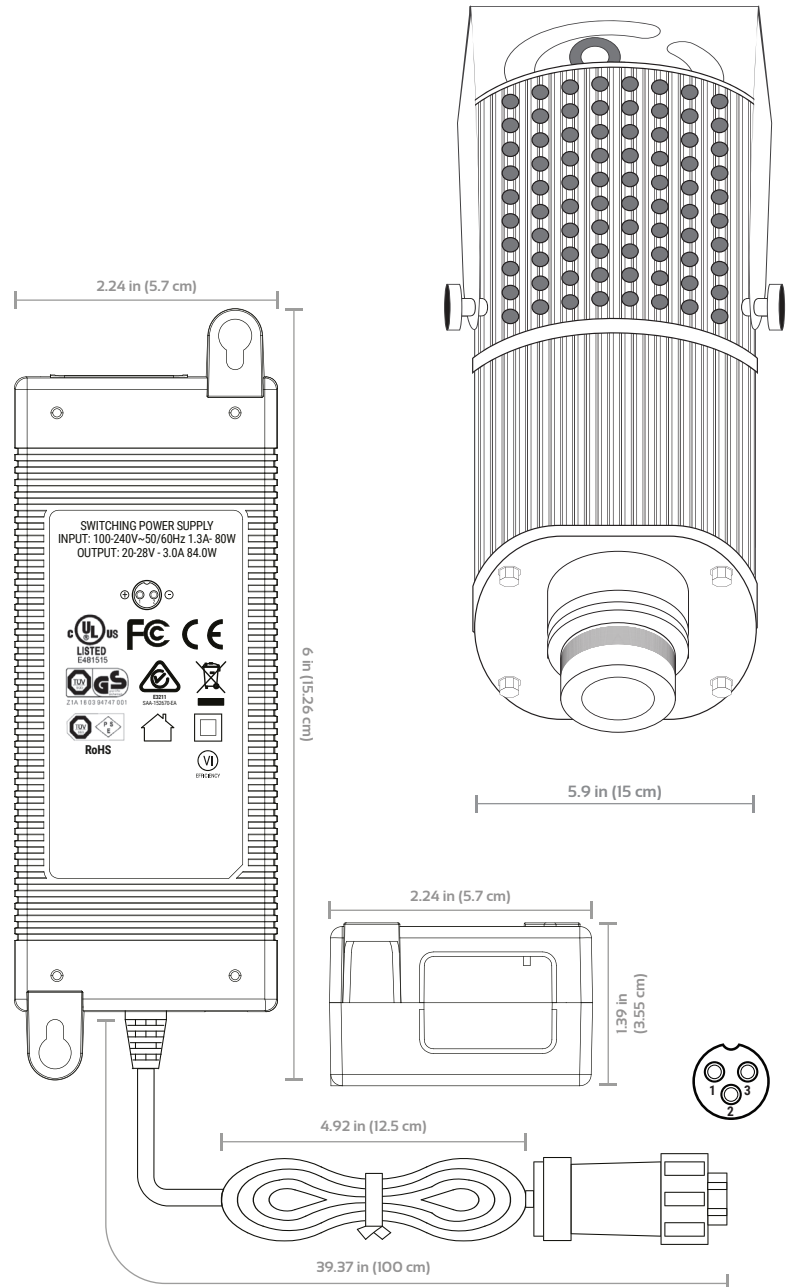




# 80w Projector

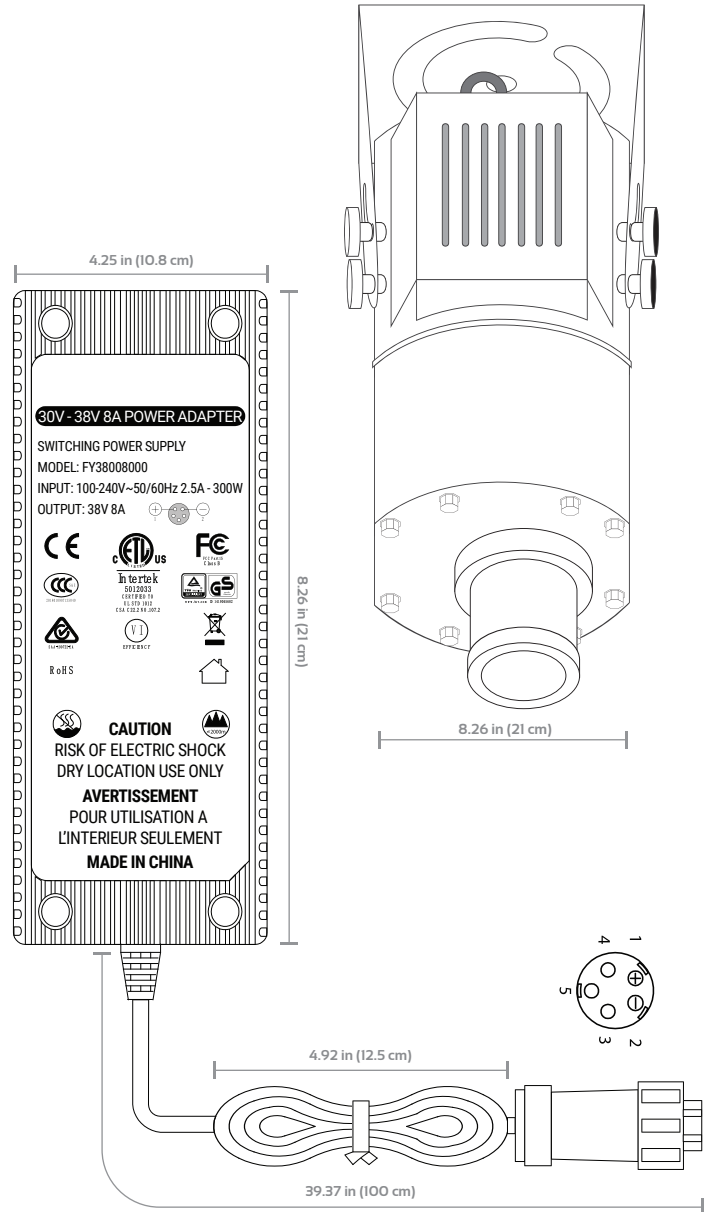
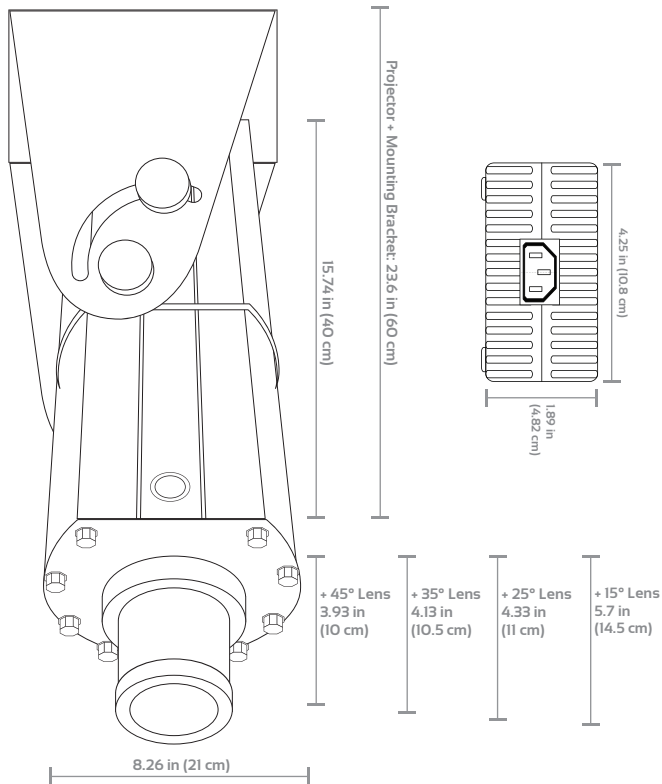


| Box Dimensions                               | Weight             |
|--|--------------------|
| 15.74" x 5.9" x 5.9"<br>(40cm x 15cm x 15cm) | 12 lb<br>(5.44 Kg) |





# 300w Projector



| Box Dimensions                                | Weight            |
|---|-------------------|
| 23.6" x 8.26" x 8.26"<br>(60cm x 21cm x 21cm) | 17.5 lb<br>(8 Kg) |





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