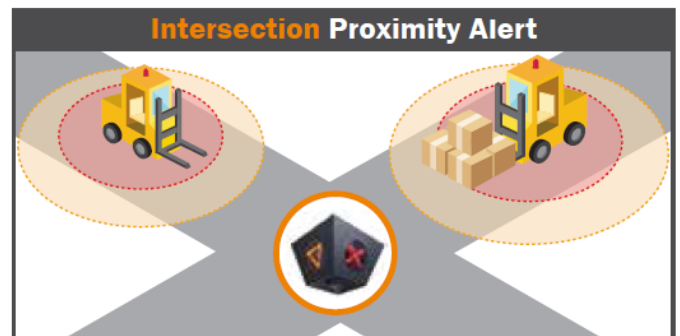
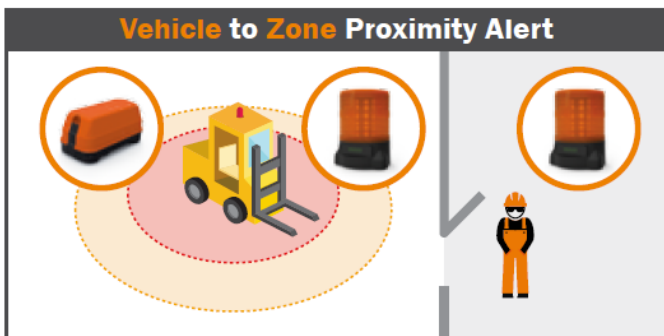


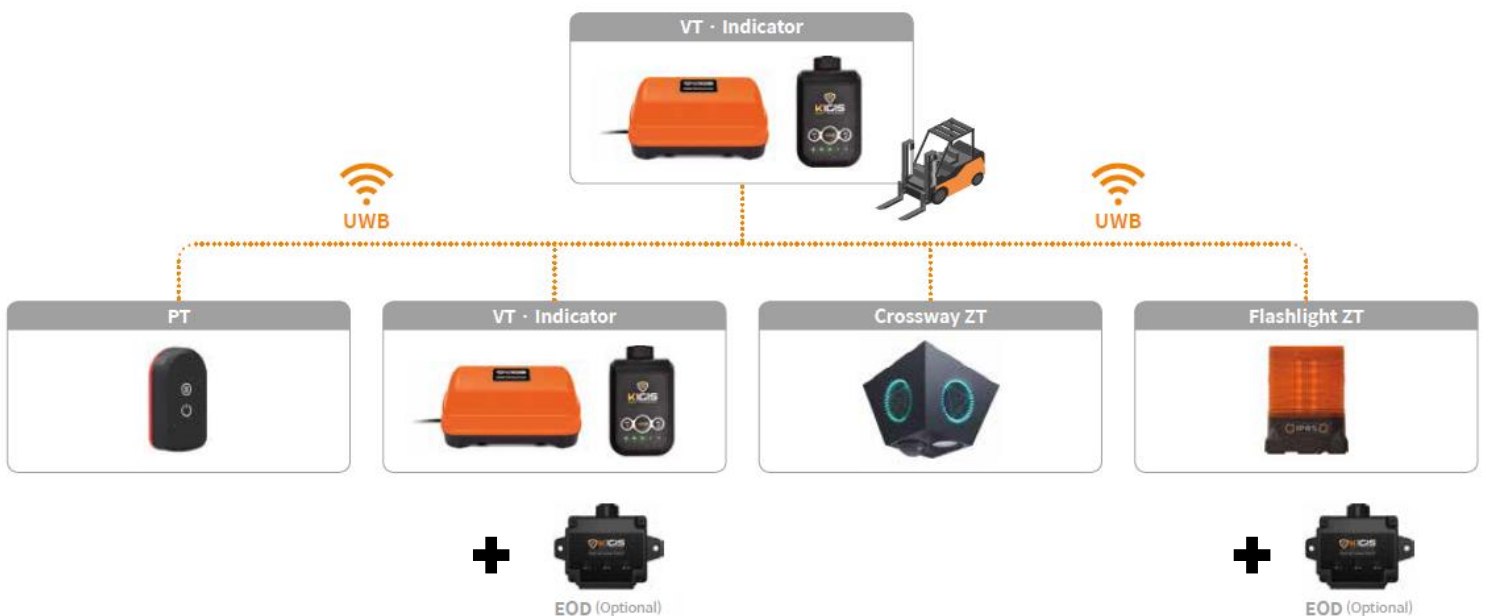
IPAS(Intelligent Proximity Alert System)

IPAS is designed to reduce the risk of collision between pedestrians and moving vehicles in your workplace. The system uses the cutting-edge RF technology to precisely measure the distance between the vehicles and pedestrians providing highly reliable collision warning.

● Functionality



● Key Map for Operating and Sensing



Datasheet

External Output Device allows additional devices to operate according to IPAS warning signal.



- Available for attachment with various extra devices such as speed controller, lamp, alarm and etc.
- CAN bus interface with 12/24V external power
- Easy use without a setup
- Simple installation and detachment using magnetic pads and a lever
- Device operates in warehouse, factory, port and construction/mining site

● Technical Data

General Specifications

| Interface | Output Channel | Weight |
|-------------|------------------------------|--------|
| CAN Bus 2.0 | 3 channel (Ch1, Ch2, Ch3) | 203g |

Electrical Characteristic

| Power | Operating Voltage | Max. Current Consumption | Allowance Current |
|--------------|-------------------|--------------------------|---------------------|
| DC 12V / 24V | DC 9~32V | 100mA | 5A (per channel) |

Operating Specifications

| Operating Temperature | Storage Temperature | Connector |
|-----------------------|---------------------|----------------------------------|
| -30~85°C | -40~85°C | I.P Connector PLUG 6P (M10xP0.5) |

● Overview

IPAS External Output Device is an intermediate device which allows additional devices to operate according to IPAS warning signal. EOD can be used with various devices such as speed controller, lamp, alarm and etc. It is necessary to connect with IPAS.

The three channels are factory pre-set to default setting value; they can be reconfigured for different options using IPAS Toolkit which is PC tool for configuration.

The sensitivity was pre-calibrated at the factory, assuming that the detecting field will be clear of obstacles. The sensitivity cannot be adjusted by user's handling.

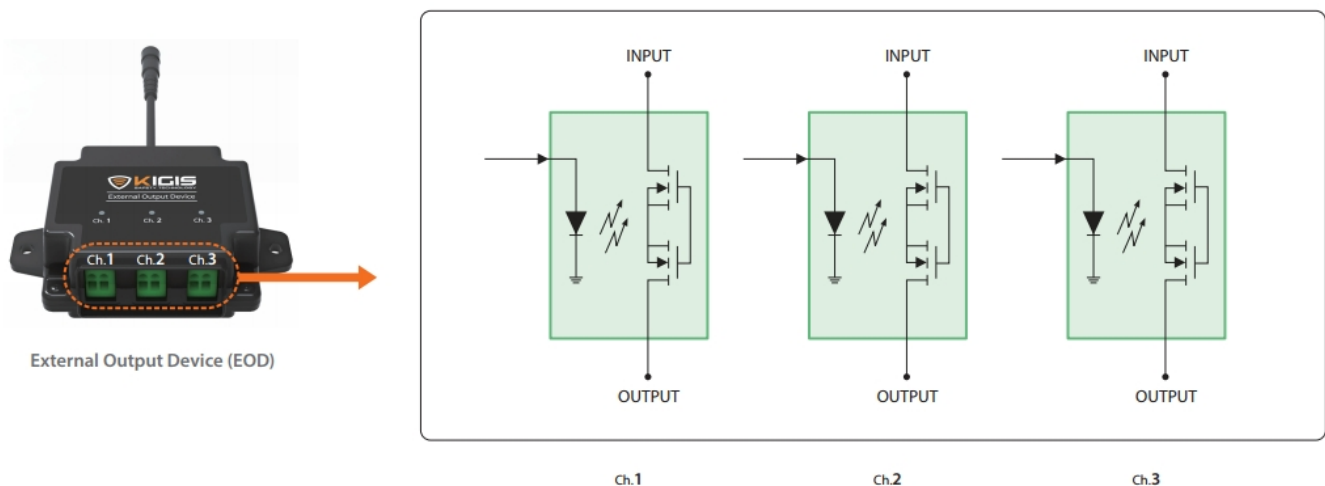


Figure 1. Block Diagram

● Functionality

Output Signal

- 1) Vehicle to Pedestrian, "Caution Area"
- 2) Vehicle to Pedestrian, "Danger Area"
- 3) Vehicle to Vehicle, "Caution Area"
- 4) Vehicle to Vehicle, "Danger Area"
- 5) Vehicle to Zone, "Caution Area"
- 6) Vehicle to Zone, "Danger Area"
- 7) Zone to Vehicle, "Caution Area"
- 8) Zone to Vehicle, "Danger Area"

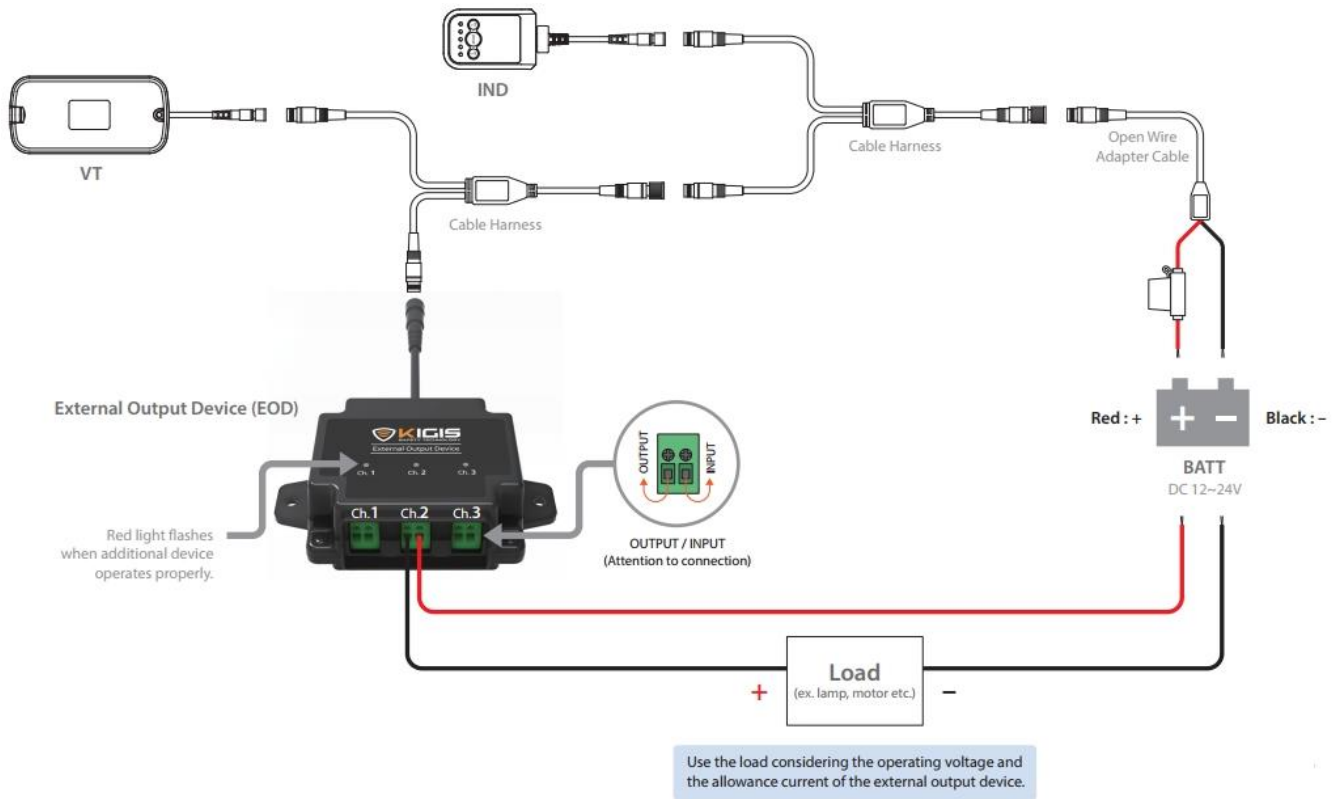
Channel

- Purpose: Setting available output signal
- Number of Channel: 3 Channels
- How to Set: Click the check box for each channel

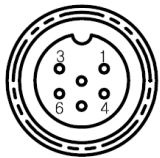
Release Time

- Purpose: Deactivating EOD by timeout
- Time: 0-15 Seconds

● Connection Example

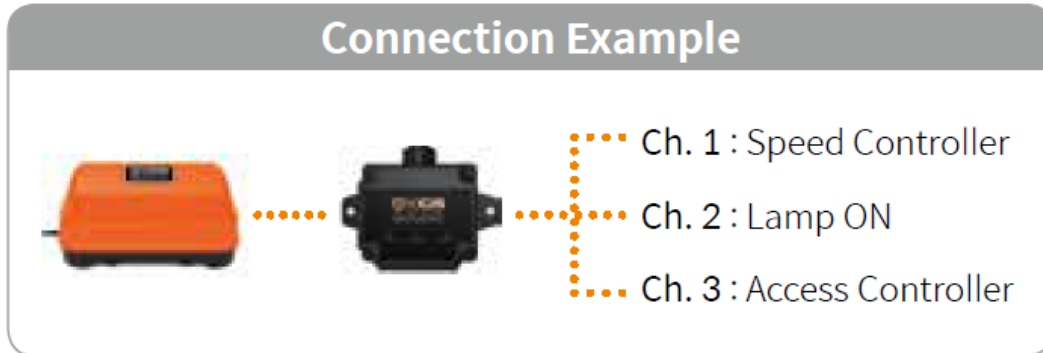


Connector Specifications



| Pin No. | Function | Wire Description | |
|---------|----------|------------------|--------|
| | | Size | Color |
| P01 | +12V | AWG #26 | Red |
| P02 | CAN_L | | Yellow |
| P03 | CAN_H | | Blue |
| P04 | RS232_TX | | White |
| P05 | RS232_RX | | Green |
| P06 | GND | | Black |

● Products Assembly



● Order Number (Product Code)

| Product Name | Product Code |
|-----------------------------|--------------|
| IPAS External Output Device | PAS-K01-7400 |

● Certifications



CE: KT119EC02001_PAS-K01-74

Manufacturer:

KYUNGWOO SYSTECH, INC.

4F, Daeryung Post Tower 5, 68, Digital-ro 9-gil, Geumcheon-gu, Seoul, 08512,
Republic of Korea www.kyungwoo.com / www.kigistec.com

Distributor:

Motor Guardian Cam Inc.

2200 Estes Ave. 2F
Elk Grove Village IL 60007
sales@motorgc.com / (847) 296-4279

