

SHOCKWATCH®

Damage Prevention and Safety Solutions



Ultrasonic Proximity Alert System (USENS)



When more than one pair of eyes is needed.

The ShockWatch Ultrasonic Proximity Alert System (USENS) by KIGIS is a detection system that helps minimise accidents in fast-paced workplace environments between pedestrians and industrial vehicles.

The ultrasonic sensors installed in the front/rear of the vehicle detect objects or pedestrians located within the warning area. Once detected, the Indicator triggers an audio and led alert for the driver.

An optional camera system (IVIEW) can be integrated to provide an additional visual aid.





Main Operating Characteristics

- ULTRASONIC SENSOR detects objects within the range from 0.3 to 3 metres
- When the object is detected, the INDICATOR makes audible alert 'beep' as well as a visual alert by LED
- Different alert sound by detected distance
- Equipped with a 2W internal speaker
- Option to integrate with IVIEW camera system for added safety
- Option for 20W external speaker

System Components.



Vehicle Components.



Indicator

Provides audio and LED alert when person/object is detected



Ultrasonic Sensor

Ultrasonic detection sensor

Optional Accessories.



IVIEW Monitor

Visual aid for detection of person/object



IVIEW Camera

Infrared camera with built-in ambient light sensor

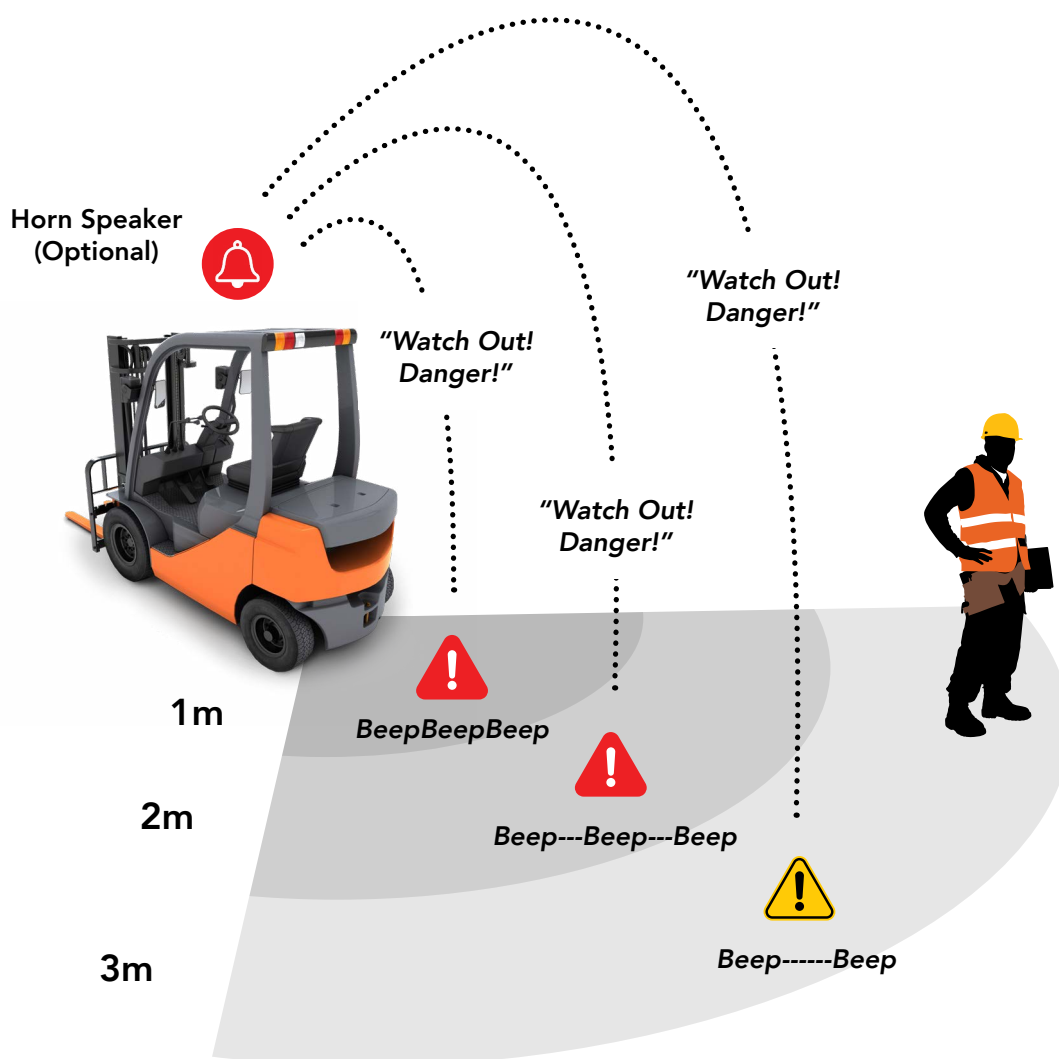


Horn Speaker

20W ultrasonic detection sensor

Please note: In addition to the components featured above, every USENS Kit comes with all the items required (cabling, wiring, fasteners, brackets, etc) for a complete installation.

How It Works.



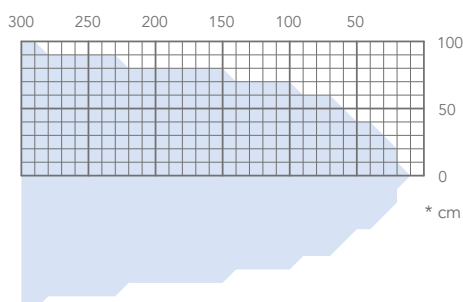
Ultrasonic Wave Sensor Range

Detection Angle: 65°

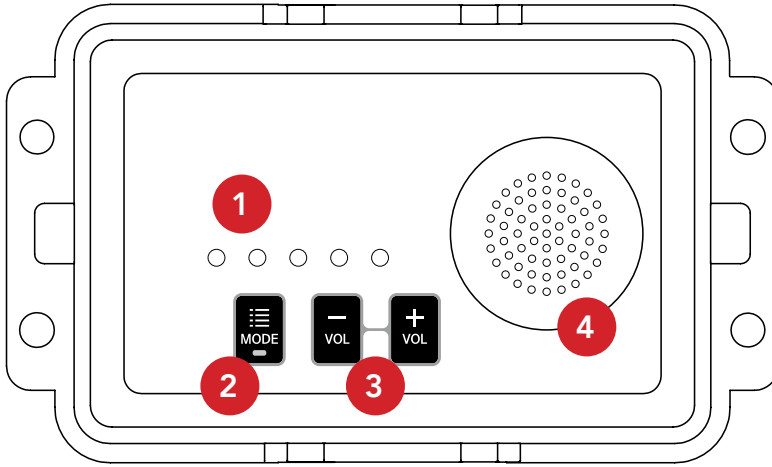
Detecting Range: 0.25m ~ 3m

Dead Zone: 0.2m

Note: The result can vary according to specifications of obstacles and measurement condition.



Indicator Display Buttons.



1 LED LIGHTS

- Indicate range of obstacle once detected

2 MODE KEY

- OFF (Light Off): Sensors activated all the time
- ON (Light On): Sensors activated only when reverse gear is used

3 VOLUME KEYS

- Operate volume levels. The volume of both Controller and Horn Speaker (optional) is changed together.

4 ALERT SPEAKER

Ultrasonic Sensor

Power	10.5VDC
Interface	LIN 2.1 SLAVE (USS.2)
Dimensions (WxHxD)	118mm x 89.5mm x 78mm (including bracket)
Weight	70g
Detection Distance	0.25m ~ 3m
Detection Angle	65° (horizontal) / 65° (vertical)
Frequency	57 ~ 59kHz
Detection Cycle	30ms
Operating Temperature	-30°C ~ 85°C
Storage Temperature	-40°C ~ 85°C
Waterproof	IP65

Controller

Power	12 /24VDC
Power Consumption	< 24W (including Horn Speaker output)
Interface	LIN 2.1 MASTER (USS.1)
Sound Level / Distance	99.68dB / 0.1m
Warning Alarm Type	Sound / LED
Dimensions (WxHxD)	160mm x 95mm x 32mm
Weight	260g
Operating Temperature	-30°C ~ 85°C
Storage Temperature	-40°C ~ 85°C
Waterproof	IP65

Horn Speaker (Optional)

Speaker Output	20W
Impedance	8 ohm
Sound Level / Distance	96.2dB / 0.1m
Dimensions (WxHxD)	122mm x 127mm x 122mm
Weight	2349g
Operating Temperature	-30°C ~ 70°C
Waterproof	Waterproof

Note: Some features may change without prior notice to improve the performance of the product.

Our Clientele.

SHOCKWATCH®
Damage Prevention and Safety Solutions

Australia



Worldwide



SHOCKWATCH®

Damage Prevention and Safety Solutions

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