

PROXIMITY SENSOR 5 M

MODEL: "ULTRA 05"

The proximity warning system for HEMM consists of ULTRA 05 sensor modules and ULTRA 05 display module. (X = 1 - 8 max is the number of sensor modules). The multiple sensor modules maximum up to 8 sensors can be connected to a display module.

ULTRA 05 Sensor Module Specifications:



- Sensing Range : 400 mm to 5000 mm (14.4 feet)
- Number of Sensors : 1 to 8 depending on the Vehicle
- Operating Frequency : 40 KHz +/- 1KHz
- Min. Receive Sensitivity : -75dB
- Beam width : 30°
- Operating Temperature : -10°C to +70°C
- Noise cancellation : Provided

- Designed as per industrial/mining conditions. Can be used in dusty and humid conditions.
- Separate sensor and display module (multiple sensors can be connected to display module).
- Micro-controller and sensor IC both are present in each sensor. This provides better calibration and communication with display module.
- Single cable interface makes it easy to connect in field.
- Easy mounting

Available Housing Material:

- CPVC (For Sensor Module)
- MS (For Display Module)

Cable for interconnection of the two modules:

- 1 M 4-core shielded cable
- Other cable lengths up to 30 M are available

Options:

- 1-8 sensors depending on requirement

Description:

The sensor module provides very short to long-range detection and ranging, in an extra compact, robust CPVC housing, designed to resist water intrusion. This sensor has a new high power output along with real-time auto calibration for changing conditions (temperature, voltage, acoustic or electrical noise) ensuring reception of the most reliable (in air) ranging data for every reading taken. The low power

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operation detects objects from 400 mm to 5000 mm (16.4 feet) and provides sonar range information with 10-mm resolution. The interface output format is: pulse-width/serial output.

Features:

- Extra Compact Housing
- High acoustic power output
- Designed for outdoor or indoor environments
- Real-time auto calibration and noise rejection for every ranging cycle
- Precise narrow beam
- Continuously variable gain
- Object detection includes soft target objects
- ☐ +12-28V DC supply for Display Module
- Free run operation can continually measure output range information
- Triggered operation provides the range reading as desired
- All interfaces are active simultaneously (thus avoiding cross-talk)
- Serial, 0 to +5V, 9600 Baud, 8,1,N or Pulse-width output
- Sensor operates at 40 KHz
- Option to operate in continuous or short-time mode (e.g. 5 mins. at start-up)
- Audio Buzzer indication (variable rate) for proximity warning.

Benefits:

- Lightweight, compact, weather resistant design
- Acoustic and electrical noise resistance
- Reliable and stable range data
- Quality narrow beam characteristics
- Very low power excellent for multiple sensor or battery based systems
- Ranging can be triggered externally or internally
- Sensor reports the range reading directly due to in-built processor
- No calibration requirement is perfect for when objects may be directly in front of the sensor during power up
- Easy mounting