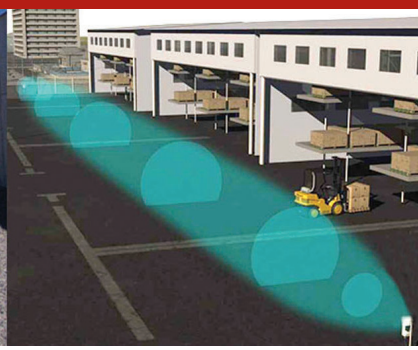
MAGAL S3
Security, Safety, Site management

ULTRAWAVE





Core features

- Zone lengths from 5 to 200 m (16 to 656 ft.)
- Stackable for increased height coverage
- Advanced Digital Signal Processing (DSP) compensates for site and weather conditions
- High Probability of detection (Pd)
- Low Nuisance Alarm Rate (NAR)
- K-band operation; 10 field-selectable frequency channels
- Tx-Rx communications link provides full Tx supervision and health status with no data wiring to Tx
- Optional network interface on receiver minizes field wiring
- Remote diagnostics over sensor network
- Two configurable relays support non-networked configurations

HVWHDOLDDHUDWLHVLVWHHHWULHURHSHWUWHWLHD
HUDWLHSHULHWUDDHVWDWUWLWDWRVLHHSWRULWDWRVLHHSWRU
UHHDHHDHHWHWLHLLELDHDHUWHDDDUHHHWULHVUDDH
WLRHDDVLUHLWLLHWUHHHLVLHLHDDHHWHDSHWUDSRUWDUHDDDUHRU
VLHLUDUHDHDVWDWD

SLDWLL

Emitatoarele si receptoarele ultraWave pot fi amplasate la o departare de pana la 200 m (656 ft.). Acestea sunt montate pe stalpi si instalate icat sa se vada unul pe celalalt pentru a forma o zona de detectie cilindrica in care intrusii sunt detectati cu siguranta, zi si noapte, indiferent de conditiile climatice. ultraWave poate fi folosit pentru a asigura detectia la efractie in jurul unui intreg perimetru sau ca o solutie ce umple golurile in cazul in care un alt sistem de securitate functioneaza ca senzor principal.

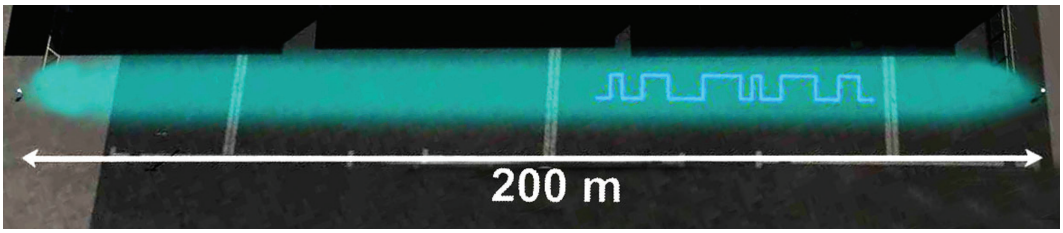
Cum functioneaza

Emitatorul creeaza o structura invizibila de energie de microunde intre emitator si receptor. Un algoritm DSP puternic deosebeste fundalul sau efectele mediului de tiparele specifice de efractie - fie ca sunt mers normal, alergare sau tarare.

Zece canale de frecventa selaectabile permit mai multor unitati ultraWave sa functioneze in apropiere fara sa interfereze intre ele, inclusiv in cazul in care mai multe unitati sunt montate una peste cealalta pe acelasi stalp.

Beneficii

- Echipamente electronice moderne - suportabilitate de lunga durata
- Solutie eficienta din punct de vedere al costurilor pentru porti sau perimetre lungi
- Asigura retea si aplicatii de configurare compatibile cu alti senzori Magal
- Se poate interfata cu aproape orice sistem de monitorizare a alarmelor
- Usor de instalat si configurat cu aplicatiile software Magal



Technical Specifications

ULTRAWAVE

Alarm monitoring

The receiver communicates alarm status to the control center. Alarm status is communicated either through relay outputs or a sensor network interface. To minimize field wiring, the transmitter sends status information to the receiver over a Tx-Rx communications link through modulation of the microwave signal.

Sensor network capabilities

µltraWave can optionally communicate alarm, status and configuration information to and from the control center over a dedicated network, designed to be polled from both ends of a loop, providing redundant data paths to the processors. The physical links can be EIA-422, single-mode or multi-mode fiber.

Network communication is managed by the Network Manager application. It controls network communications and passes µltraWave alarm and status information to the Security Management System (SMS). For third-party integration to the Network Manager, an SDK with a detailed Applications Programming Interface (API), network manager simulator and complete sample code is provided.

Anti-spoofing

To protect against deliberate spoofing or accidental mis-alignment µltraWave receiver units are configured during installation to recognize only the Tx unit they are paired with. Loss of transmitted signal and jamming attempts are also detected and reported.

TECHNICAL SPECIFICATIONS

RANGE
- Walking target: 5 to 200 m (16 to 656 ft.)
- Crawling target: 5 to 150 m (16 to 492 ft.)
- Commando roll: 5 to 100 m (16 to 328 ft.)

CLEARANCE REQUIREMENTS
A clear zone with total width of 4% of the RX-TX separation distance is required that is free of tall grass, other vegetation, and obstacles

DETECTION PERFORMANCE
Greater than 99%

MOUNTING PROVISIONS
Units provided with standard pole mount kit for posts from 6.35 to 12.7 cm (2.5 to 5 in.) diametr, also supports wall mounting

CABLE PORTS
Two cable ports with glands provided

LIGHTNING PROTECTION
Tranzorb and gas discharge devices on all inputs and outputs, including power

CONNECTIONS AVAILABLE
Power, two multi-function relays, auxiliary dry-contact input (Rx only), USB for configuration

RELAYS
- Form C, 1.0 A at 30 VDC
- Two on each of Tx and Rx
- Function of each input can be assigned based on requirement
- Assignable functions include alarm, tamper, input power fail, fail safe

AUXILIARY INPUT (RX ONLY)
- Status reported over network in network mode
- Programmable for supervision type, resistor value(s) and filtering

OPTIONAL PROCESSOR COMMUNICATION CARDS
- EIA-422 network card for Silver Network:
  - Allows runs up to 1.2 km (3,937 ft.)
- Multi-mode fiber optic network card for Silver Network:
  - ST connectors for 50/125, 62.5/125, 100/140 and 200 µm HCS® multi-mode fiber, 820 mn
  - Allows runs up to 2.2 km (7,200 ft.)
- Single-mode fiber optic network card for Silver Network:
  - ST connectors for 9/125 single-mode fiber, 1310 mn
  - Allows runs up to 10 km (32,000 ft.)

NETWORKING OPTIONS
- SNIU - provides interface between Silver field network and indoor computer equipment
- Network Manager Suite - software interface to head-end SMS such as FORTIS or third-party system

CALIBRATION
Done with UCM software

UCM SOFTWARE
- Connect to ultraWave transmitter and receiver via USB
- Configure user-programmable parameters
- View sensor response plots
- Provides calculator for mounting heights based on zone length

ENVIRONMENTAL
- Temperature: -40° C to 70° C (-40° F to 158° F)
- Humidity: 0 to 95% non-condensing
- Conformal coated PCBs

POWER REQUIREMENTS
2.5 W with 12 to 48 VDC input for both transmitter and receiver

HOUSING
High impact ABS plastic

COLOR
Marine white

DIMENSIONS
31 x 16 x 8 cm (12.25 x 6.25 x 3.375 in.)

WEIGHT
0.9 kg (2 lbs.) each for transmitter and receiver unit

SHIPPING WEIGHT
3.63 kg (8 lbs.) for transmitter - receiver pair

REGULATORY COMPLIANCE
- FCC - complies with FCC Part 15, Subpart C, section 15.245, 10 field-selectable channels in 24.075 GHz to 24.175 GHz band, 24 dBm output
- CE - complies with ETSI EN 300 440-1 v1.5.1, ETSI EN 301 489-3 and EN-50130-4, 10 field-selectable channels in 24.150 GHz to 24.250 GHz harmonized band, 20 dBm output

Specifications are subject to change without prior notice.

MAGAL S3
Security, Safety, Site management

www.magal-s3.com