

The Choice of Professionals Worldwide.

# Combination Sensor: COM-IN-50HF



This combination sensor consists of the TAKEX Intelligent Quad Series Photoelectric Beam coupled with the K band microwave sensor to ensure maximum stability in severe weather conditions.

# Two Frequencies (H) and (L) Selection

Two models are available with different microwave frequencies, COM-IN-50HF/H (24.19GHz) and COM-IN-50HF/L (24.11GHz).

### **Intelligent Beam Functions**

stacked or long linear installations.

- Four-frequency selection
   Four separate beam frequency choices avoid cross-talk in
- Environmental output selector
   The environmental signal is initiated when the beam reception level is reduced below an acceptable level by poor weather conditions (dense fog or torrential rain etc.)
- Alarm memory
   Alarm memory LED indicates which sensor issues an alarm when two or more sensors are placed on a zone.

## Features of Microwave Sensor

- Monitor jack output.
- Easy beam alignment.

## Features of Photoelectric Beam Sensor

- High immunity against hazardous weather such as heavy fog, snowfall or dew.
- · 4 synchronized high power infrared beams.
- Sensitivity attenuation LED
   Lights when beam leel is attenuated, which shows low sensitivity.
- · Monitor jack output.
- Protection against frost/dew
   A frost proof double cover allows continual use in colder climate conditions (optional heater PBH available for

#### Other Features

extreme environments).

- · Automatic gain control (AGC) circuit.
- · Pre-wired AND/OR gated alarm output mode.
- Microwave antennae and PE beam lenses adjustable (horizontally +-90°, vertically +-10°).
- · Tamper output.
- Pole or wall mount.
- · Optional accessories.

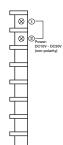
# Combination Sensor: COM-IN-50HF

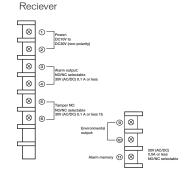
# **Specifications**

Туре	Combination sensor
Model	COM-IN-50HF
Protection distance	1m to 50m
Max. arrival distance	Photoelectric beam: 500m (tenfold margin distance) Microwave: 100m
Infrared beam	LED (pulsed beam by LED)  Double modulation
Microwave	(L) 24.11GHz (H) 24.19GHz
Detection system	Photoelectric beam and Microwave
Response time	Photoelectric beam sensor: 50msec. to 700msec. (Variable at pot) Microwave: 40msec. to 300msec. (Variable at pot)
Alarm signal	Dry contact relay output 1C Contact action: Interruption time + delay time (approx. 2sec.) Contact capacity: 30V (AC/DC) 1A
Environmental signal	Dry contact relay output NO or NC Contact capacity: 30V (AC/DC) 0.5A
Supply voltage	12 to 30V DC
Power consumption	When alarmed: 165mA or less Transmitter: 65mA or less Receiver: 100mA or less Receiver: 135mA or less
Tamper signal	Dry contact output 1b (N/C) Contact capacity: 30V (AC/DC) 0.1A
Function	Alignment tone switch, attenuation LED, Monitor Jack, Alarm memory indication, Modulation frequency selectable (4 stage), Environmental check, Automatic gain control (AGC) circuit, Front protection cover, Alarm output selectable (AND/OR)
Weight	Transmitter: 1850g Receiver: 2000g
Appearance	Wine Red PC Resin

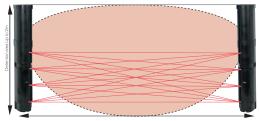
### **Terminal**

#### Transmitter





# **Protection Distance**



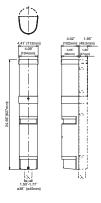
(1m - 50m) (Protection distance)

# Optional



Pole cover BP-50 COM

# External Dimensions: Unit inch (mm)





# TAKEX Europe Ltd. Aviary Court, Wade Road Basingstoke, Hampshire

RG24 8PE, UK Tel. +44 (0)1256 475555

Fax. +44 (0)1256 466268



www.takex.com