



75 / 150 / 250M QUAD PHOTOELECTRIC BEAM SENSOR

4PH-75 / 150 / 250BQE



NEW FUNCTION • NEW DESIGN

FEATURES :

- A.G.C. (Automatic Gain Control) Circuit.
- Double Modulation Beam Frequency.
- Selectable 4-Channel Beam Frequencies.
- High Grade Aspherical Lens.
- Optional Heating Unit for cold areas.
- Protection against Rain, Dust & Insect.
- Protection against Frost, Snow & Dew.
- Adjustable Beam Interruption Period.
- Static, Lightning & Surge Resistance.
- Environment Detection Function.

ISO-9001



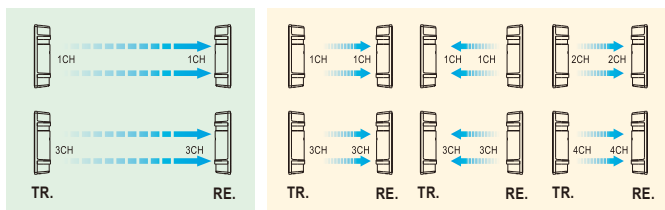
75 / 150 / 250M QUAD PHOTOELECTRIC BEAM SENSOR

4PH-75/150/250BQE



SELECTABLE 4-CHANNEL BEAM FREQUENCY

- 1 2-stacked protection. 2 Line and 2-stacked protection.



SPECIFICATIONS :

| MODEL | 4PH-75BQE | 4PH-150BQE | 4PH-250BQE | |
|------------------------|--|---------------------|---------------------|--------------------|
| Detection Distance | Outdoor | 225 ft. (75 m) | 450 ft. (150 m) | 750 ft. (250 m) |
| | Indoor | 450 ft. (150 m) | 900 ft. (300 m) | 1500 ft. (500 m) |
| Max. Arrival Distance | 2250 ft. (750m) | 4500 ft. (1500 m) | 7500 ft. (2500 m) | |
| Current Consumption | 73mA (max) | 83mA (max) | 97mA (max) | |
| Selectable Frequency | 4-channel | | | |
| Power Supply | 10.5V ~ 30VDC (Non_Polarity) | | | |
| Infrared Photoelectric | LED pulsed beam, Double modulation | | | |
| Detection System | Simultaneous breaking of 2 beams | | | |
| Response Time | 50msec ~ 700msec (Adjustable) | | | |
| Alarm Output | Dry connect relay NC./ NO. 0.2A / 28VDC Contact Action: 1 To 3 sec . | | | |
| Tamper Output | Dry connect relay NC. 0.2A / 28VDC Action : cover is detached. | | | |
| Environment Output | Dry connect relay NC./ NO. 0.2A / 28VDC Contact Action: Heavy mist situation | | | |
| Alarm LED | Red LED (Receiver) lights when an alarm is initiated. | | | |
| Attenuation LED | Yellow LED (Receiver) lights when beam is attenuated | | | |
| Functions | RF-Monitor Jack, Meter Monitor Jack output AGC circuit, Frost proof cover. | | | |
| Alignment Angle | Horizontal ± 90°, Vertical ± 10° | | | |
| Operating Temperature | -13°F to +131°F (-25°C to +55°C) | | | |
| Mounting Positions | Indoor / Outdoor | | | |
| Wiring | Terminals | | | |
| Weight | Transmitter (1385g) & Receiver (1485g) | | | |
| Dimensions | W100 x H390 x D99.80 mm | | | |
| Standard Accessories | U-Shaped Brackets x 4 , Attenuation Sheet x 2 Screws (4x20 Self tapping) x 8 , Screws (M4 x 20) x 8 | | | |
| Option | Heating Unit (HT-200) | | | |

NOTE :

- This unit is designed to detect an intruder and activate an alarm control panel.
Being only a part of complete system, we cannot assume responsibility for theft or damages, should it occur.
- Specifications and design are subject to change without prior notice.

FEATURES :

RAIN, DUST & INSECTS PROTECTION

The Rubber O-Ring & Rubber Grommets used in the to prevent rain, dust and tiny insects from adversely affecting performance.



DOUBLE MODULATION IR BEAM FREQUENCY

FORM C RELAY (N.C./N.O.)

FROST & DEW PROTECTION

An anti-frost design is to protect the detector from effect of frost & dew.

99% BEAM BLOCKING STABILITY

Enabling stable operation with as much as 99% loss of beam energy.

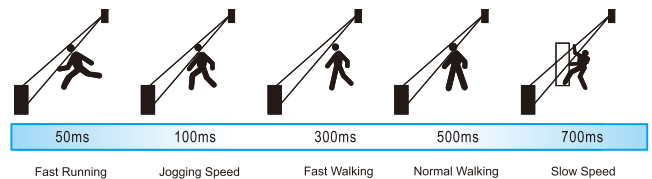
AUTOMATIC GAIN CONTROL (A.G.C.)

The A.G.C. Circuit continually monitors for gradual changes in the signal's strength caused by weather conditions and adjusts the trigger level accordingly, to maintain proper sensitivity.

STAINLESS SCREWS & BACK PLATE

ADJUSTABLE BEAM INTERRUPTION PERIOD

Beam interruption time can be adjusted according to the peculiarities of each installation location. When protecting a wall or fence, a long interruption time could catch intruders, but let jumping cats or small objects pass through.



HEATING UNIT - HT-200 (OPTION PART)

For use in cold areas
(Temperature control switch inside) ,
24V DC/AC, 400mA max. (800mA/set)



ENVIRONMENT DETECTION

The environmental signal is initiated if the beam reception level is reduced under certain situation.

DIMENSIONS :

