

RN4 10-25/25-75/75-150

INFRARED PHOTOELECTRIC BEAM

The Rednet® Series of photobeams is a range of active infrared detectors designed to combine high levels of intruder detection with a low potential for false activation.

The system utilises an infrared transmission to synchronise transmitters and receivers and removes the need for hardwire synchronisation cables between towers.

RN4 systems feature four high power transmitters and four receivers. Uniquely, each transmitter operates to all receivers and all receivers are operated by all transmitters. This combination creates a sixteen beam path 'net' which is difficult to compromise.

If your site requires the installation of multiple Rednet beam sets mounted in close proximity to each other, then care should be taken to select Rednet units with different frequencies (see B channel version listed in options) or mount the unit in such a configuration where one transmitter cannot see another receiver from an adjacent zone. This will eliminate the possibility of crosstalk.

SYSTEM DESIGN

The Rednet® system is simple to design and install as it is modular and has just five main components.

To design a system, simply decide where the towers are to be positioned and measure the distance between these points. Choose the wall (RNW175) or free-standing (RNT175) towers and select the correct beam set for the distances between them. Towers come complete with all fixings and the electronics include heaters, thermostats, fixings and alignment aids.

BEAM HEAD

The Rednet® beam head contains a folded optical array to combine a long focal length with small head size. This creates narrow transmission and receiving angles to maximise performance. The heads also contain their own heater to ensure that the maximum amount of energy is directed to the section of the tower the beams operate in.

BEAM SETS INCLUDE

- Heaters
- Thermostats
- Four Transmitters pre-wired to transmitter controller
- Four Receivers pre-wired to receiver controller
- RN Tester
- Optical alignment viewer
- Blanking plates
- Tamper Switch and Fixing Kit

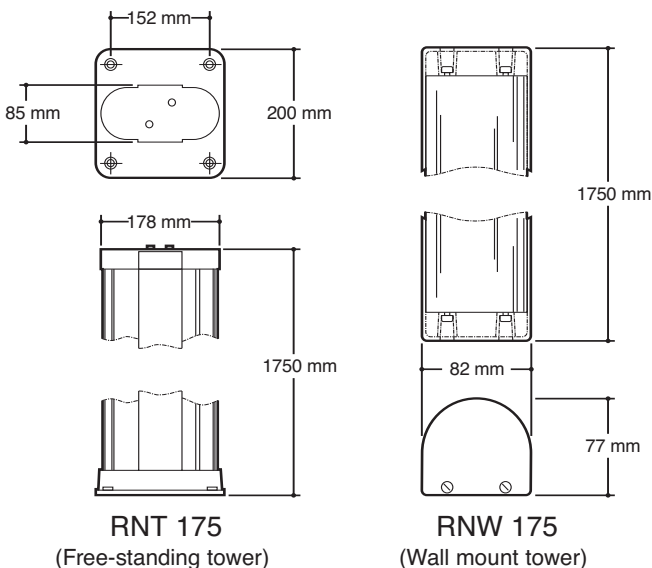
RANGE

	Distance
RN4 10-25	10 - 25m
RN4 25-75	25 - 75m
RN4 75-150	75-150m



RN4 Beam set installed in RNT175 Free standing tower.

TOWER DIMENSIONS



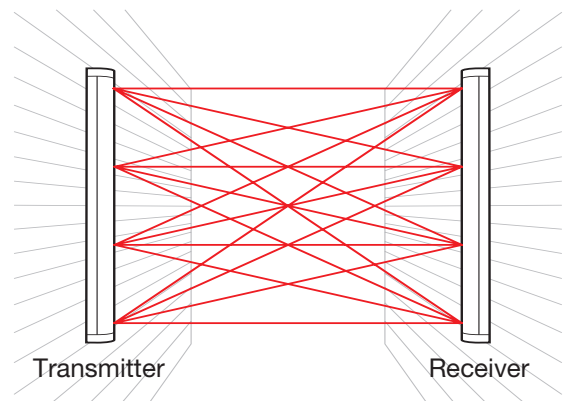
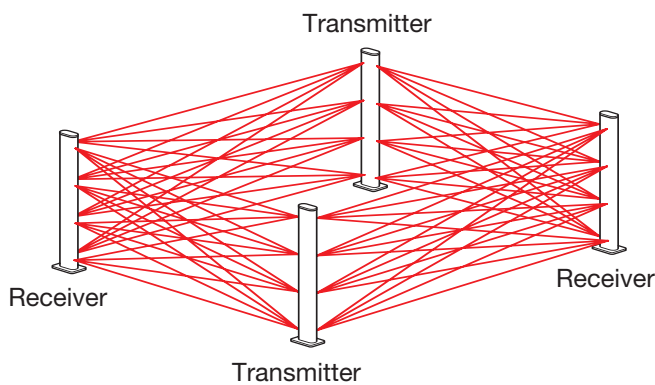
FEATURES

- Sixteen active beams
- Graded alarm responses
- No hardwire synchronisation
- Integral head heaters
- Modular system design
- Field adjustable detection levels
- Up to 150m outdoor range
- Alignment tester included
- Fog detection circuitry

OPTIONS

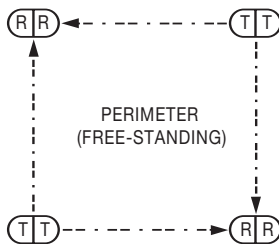
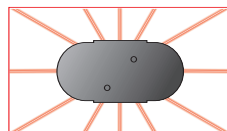
- RNTT - Anti climb top tamper
- RNBB - Mounting Hardware to be set into concrete.
- RNFAN - Ventilation fans
- RNT175 - 1.75M Free standing double sided tower
- RNW175 - 1.75M Wall mount single sided tower
- RNT300 - 3M Free standing double sided tower
- RNCAM - Hi definition Mono camera
- RN4/10-25B - B Channel beam set
- RN4/25-75B - B Channel beam set
- RN4/75-150B - B Channel beam set

TYPICAL BEAM CONFIGURATION



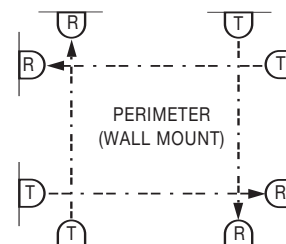
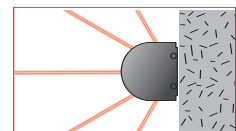
• TYPICAL LAYOUTS

RNT 175 - 360°
Double-sided/
Free-standing



• TYPICAL LAYOUTS

RNW 175 - 180°
Single sided/
Wall mount



The Rednet® Series creates a 16 beam path 'net', which is difficult to compromise.

SPECIFICATIONS



11-15V
DC



100mA (MAX)
at 12VDC



Heaters
800mA
per set



-25°C



+60°C
(RNFAN required)



Alarm Output
Form 1C
24VDC/1A (MAX)



Fog Output
Form 1C
24VDC/1A (MAX)



Tamper
Form 1B
28VDC/100mA (MAX)

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For further information visit our website: www.optexeurope.com

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