

**SERIES FEATURES**

Full class 3



Synchronism with multiplex transmission

**Characteristics Photoelectric cells full class 3**

Photoelectric cells with adjustable lenses

Power supply 12/24Vac-dc

Maximum range under in conditions 15m

Conforms to the safety directives EN12978 in category 3 of EN ISO 13849-1 and type 2 of EN61496-2

CDR 973 is a specifically designed range of next generation infrared security devices for the protection of carriageways and pedestrian passageways fitted with automatic opening and closing systems. The appliance is fitted with a new optical transmission system that respects an infrared opening angle of  $\pm 5^\circ$ . The management of both the transmitter part and the receiver part is carried out by micro controller, giving the advantage of greater precision in the generation of impulses transmitted via infrared and this (once modulated according to a digital protocol that allows information transfer from the transmitter to the receiver) eliminates the risk of blinding caused by other infrared systems working on the same frequency and located in the vicinity. This is a superior class appliance that will be available in three different containers in order to solve all installation requirements.

Technical description

Infrared emission obtained by digital modulation of the carrier signal. Reception with protocol demodulation and decoding allowing the transmitter to be recognised.

It is possible to connect up to 3 pairs of photocells and synchronize the transmission without interference; selection is carried out by means of a three-way dip-switch located on the transmitter and the receiver and by interconnecting the three transmitters using a two-wire cable (synchronism). The receiver does not require any other form of interconnection.

Digitally controlled double relays are situated on the receiver card in order to increase the safety of the appliance (at rest/alarm status control).

Jumper for selecting the output mode (potential free, N.C. or resistance 8,2k $\Omega$  contacts).

Drop out delay selection via dip-switch (0, 2 seconds or 3 seconds). High intensity LED (on the receiver) facilitating lens centring from a certain distance. 2 indicator LEDs on the receiver:

Green - when lit indicates the photoelectric cell is at rest.

Red - when lit indicates the photoelectric cell is in alarm, when flashing indicates photoelectric cell failure.

Reinforced power supply allowing voltages up to 40Vdc or 28Vac.

**Product features CDR973EX**

Surface-mount photoelectric cells

The kit contains a pair of surface-mount photoelectric cells, 2 lens covers for surface-mount photocells and 2 fast-fitting wall brackets.

Photoelectric cells in a shockproof case IP55

Maximum range 15m

Power supply 12/24Vac-dc

Protection grade IP55

Transmitter and receiver housed in a waterproof plastic case.

Self locking adjustable lens which can be rotated horizontally through plus or minus  $90^\circ$  and vertically through plus or minus  $30^\circ$  with respect to the standard installation position.

It is possible to connect up to 3 pairs of photocells and synchronize the transmission (multiplex system).

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## CDR973EX - INFRARED MODULATED BARRIERS

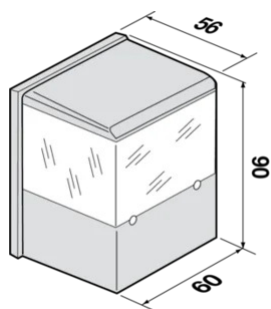
Surface-mount photoelectric cells



### GENERAL CHARACTERISTICS

|                             |        |           |
|-----------------------------|--------|-----------|
| Power supply                | Vac/dc | 12/24     |
| Operating temperature range | °C     | -20...+55 |
| Protection grade            | IP     | 55        |

### OVERALL DIMENSIONS



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