

Retro-Reflective Photocell (Item No. KNL104)

User Manual

Thank you for purchasing the Retro-Reflective Photocell (KNL104). It is designed to be used as a reversing sensor for automatic garage door, vehicle swing gates and parking barriers. It is very easy to install and use with reliable performance.

Specifications

Detection Method: Retro-Reflective Sensing Range: 33 Feet (10 m) Supply Voltage: 12-240VDC/24-240VAC Output: Relay SPDT Output Capacity: 3A/30VDC, 1A/240VAC Protection Degree: IP65

Installation

★ The sensor does not have parts subjected to maintenance: Do not open the case; if necessary ask to specialized personnel only.

 \bigstar Make sure that all the cables connected to the sensor are not too tightened and not hamper the movements of people and other objects.

★ Do not touch un-insulated cables unless they are disconnected upstream. Do not install the sensor during storms with lightning.

★ If the cable is subjected to flexing, a coiled section should be used with a bending radius that prevents 90 degree bends in angle.



There are 3 parts in the package, the photocell, the reflector and the mounting bracket. The emitter and receiver are integrated in the same unit, so the installation of the photocell could be easier.



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Install the photocell over the height of 20cm. Install the photocell vertically with the bracket and keep reflector and photocell with an angle about 2°.

Wiring Connection





Wiring Connection with KNL series swing gate opener

Wiring Connection with KND500 sliding gate opener



Wiring Connection with KNS1500, KNS1800, KNS3000 sliding gate opener



Testing

After installation and wiring the PHOTOCELL, you must test the it to see if it is working properly and if the range needs adjusting for optimum performance.

Turn the potentiometer (POT) clockwise to increase range.

Turn the potentiometer (POT) counter-clockwise to decrease range.

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