



The Fit 55 photocells include a Receiver RX (with 5 terminals) and a Projector TX (with 2 terminals), and the two of them, as a matching pair, make up a safety device for access automations (doors, gates, barriers, bollards ...). The electronic cards, that of the photocell designed to project the infrared beam (Fit 55 Projector) and that receiving the beam (Fit 55 Receiver), are enclosed inside a spherical housing, fully sealed against external elements. Only the terminals, for the electrical connections, and the jumpers are on the outside of it.

Also, the spherical design makes it easy to install and adjust to align the photocells by the frontal screw with the help of a screw driver.

Once alignment is achieved, tighten the screw to fix the fastener and the photocell in the correct position. The terminal board allows the electrical connections for the power supply to the Projector and the Receiver (only in this one there are three additional terminals to get the contacts as required: NC-Common as a safety device, or NO-Common). The Receiver and the Projector can be powered either 12V or 24V (either direct or alternate current), a jumper allows for voltage selection as required. Only the Receiver has a second jumper, on one side of the terminal board, to select the working distance between the two units; in this way the distance range of the infrared beam can be increased from the standard 15 metres to 30 metres and still have full protection across the entire photocell distance on the automated site. The photocells have a clear cover, made of plastic ("macrolon"), fully weather-proof, ensuring full protection against any kind of external elements and atmospheric agents. Only the infrared beam, produced by the Projector, is allowed to be emitted through the cover, which is totally unaffected by any other luminous source.

A red led, inside the receiver spherical housing, illuminates when an obstacle interrupts the infrared beam or in case the units are not aligned.

Fit 55 Receivers and Projectors are supplied in ABS plastic casings in two options, recess or surface mount. A range of fitting accessories, made of ABS plastic, make the photocells Fit 55 extremely versatile to meet the most various fixing requirements: options of casings having different designs to be either recessed into a wall or surface mounted; post mount fixing, where the photocells are fitted on to anodized aluminium posts. The post has a galvanized ground fixing base plate with a cover, improving the aesthetic appearance of the fixing, and a plastic support on the top of it to take the photocell (the top support can be also used to provide Fit 55 with a lateral mount fixing). Plastic adaptors are also available in the case where Fit 55 are to replace either Difo 33 or Polo 44 photocells.

Technical Specifications

Modulated light frequency	.....1100 Hz
Power supply	..... 12V or 24Vac/dc
Projector absorption	.....26 mA
Receiver absorption	.....28 mA
Working temperature	.....-20°C +70°C
Output contact	..... 1 A - 125 V - 60 VAmx
Projector-Receiver Distance	..... 15 metres - max 30 metres (*)
Contact detection time	..... 6 msec.
Protection standard	.....IP 54
Casing material	.....Nylon glass fiber 30%

(*) Distance decreases about 30-50% in case of fog, rain or dusts

