

DIFFUSE REFLECTOR PHOTOELECTRIC SENSORS



Series FE 788/C

Covers a particularly wide area



This photo detector, in contrast to other detectors, covers a particularly wide area, as it emits a broad beam of modulated infrared light and has a wide angel detector.

One special feature of this type is that the modulation of the light will be changed if the receiver detects light from another transmitter than that of the detector. This will enable mounting of several detectors in a row even if they are scanning the same area. It is possible to mount detectors facing each other without disrupting it's operating.

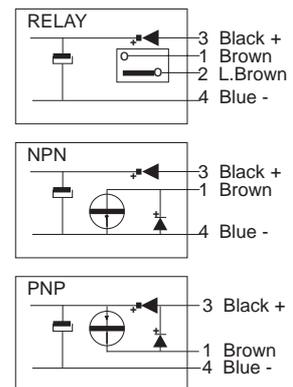
The wide angel receiver will activate the output signal as soon as part of the transmitted light is reflected. This signal will remain active while the photo detector receives the reflected light.

The detecting pitch can be adjusted up to 200 mm. The diffusion of the detection field is 60 degrees horizontally and 20 degrees vertically. In other words, the monitored area at a distance of 2000 mm. Equals about 2000 x 400 mm.

Technical data

Range:	2m on white A4 paper
Radiation:	Horizontal max. $\pm 30^\circ$ Vertical max. $\pm 10^\circ$
Supply options:	024VDC +15% -15%
Output:	-Relay: single pole 2A 30W/60VA -Transistor: NPN or PNP output. open collector 32VDC
Power consumption:	max. 70mA
Ambient temperature:	- 15°C to + 40°C
Housing:	Noryl
Gain control:	Allows 10:1 change
Cable:	1m.
Weight:	max 600 g

Wiring digrams



Type no. Identification code

121100	FE 788/C NPN	024VDC NPN output
121110	FE 788/C PNP	024VDC PNP output
121120	FE 788/C Relay	024VDC Relay output

Dimension (mm)

