

PYROELECTRIC DETECTORS

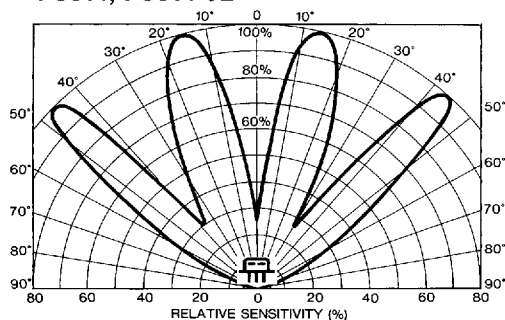
Dual Element Type with Lens Cap P3514 Series

The P3514 series dual pyroelectric detectors have a lens mounted on the TO-5 package. They are ideally suited for the detection of a human body at a short distance of about 2 to 3 meters. Since the devices require no Fresnel lens, they can be put in a small sensor unit.

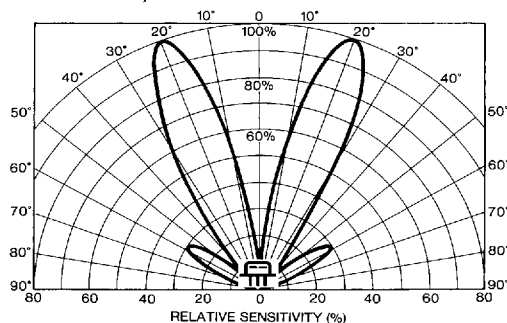
Type No.	Window Material	Sensitive Area (mm)	Spectral Response Range (μm)	Sensitivity Typ. (500,1) (V/W)	Noise Max. ($\mu\text{V}/\text{Hz}^{1/2}$)	NEP (500,1,1) Typ. (W/Hz $^{1/2}$)	D* (500,1,1) Typ. (cmHz $^{1/2}$ /W)	Rise Time t_r 0 to 63% Typ. (ms)	Temp. Coefficient of Sensitivity Max. (%/°C)	Supply Voltage (V)	Offset Voltage $R_L=22\text{K}\Omega$ (V)	Temperature	
												Operating (°C)	Storage (°C)
P3514	7 μm long-pass filter	2X1 (X2)	7 to 20	450	15	1.5×10^{-9}	1.0×10^8	100	0.2	3 to 15	0.2 to 1.0	-20 to +60	-30 to +85
P3514-01													
P3514-02	5 μm long-pass filter	2X1 (X2)	5 to 20	500	15	1.4×10^{-9}	1.1×10^8	100	0.2	3 to 15	0.2 to 1.0	-20 to +60	-30 to +85
P3514-03													

DIRECTIVITY

P3514, P3514-02

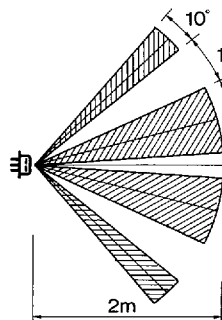


P3514-01, P3514-03

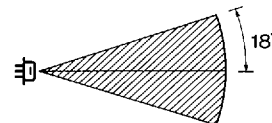
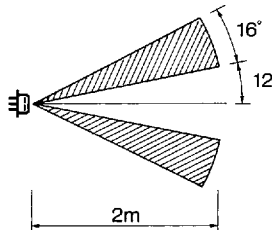
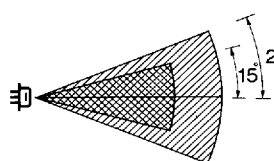


FIELD OF VIEW

P3514, P3514-02

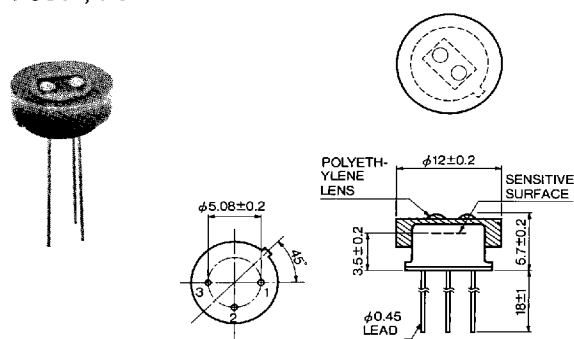


P3514-01, P3514-03



DIMENSIONAL OUTLINE (Unit: mm)

P3514, P3514-02



P3514-01, P3514-03

