

PYROELECTRIC DETECTORS

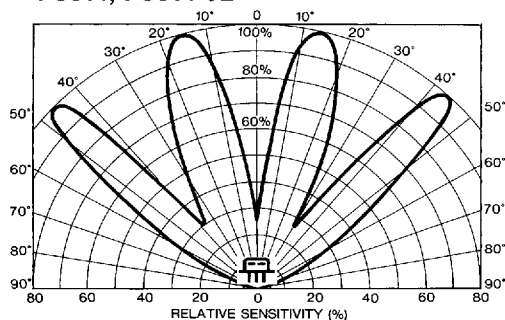
Dual Element Type with Lens Cap P3514 Series

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.

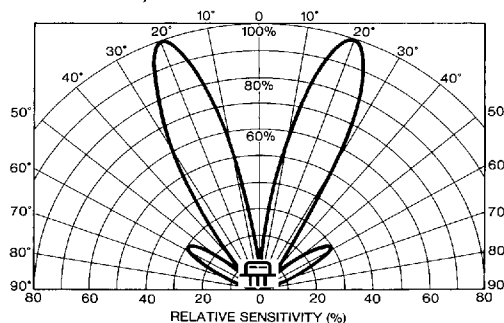
Type No.	Window Material	Sensitive Area (mm)	Spectral Response Range (μm)	Sensitivity Typ. (500,1) (V/W)	Noise Max. (μV/Hz ^{1/2})	NEP (500,1,1) Typ. (W/Hz ^{1/2})	D* (500,1,1) Typ. (cmHz ^{1/2} /W)	Rise Time t _r 0 to 63% Typ. (ms)	Temp. Coefficient of Sensitivity Max. (%/°C)	Supply Voltage (V)	Offset Voltage R _L =22KΩ (V)	Temperature	
												Operating (°C)	Storage (°C)
P3514	7μm 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	5μm long-pass filter		5 to 20	500		1.4×10 ⁻⁹	1.1×10 ⁸						
P3514-03													

DIRECTIVITY

P3514, P3514-02

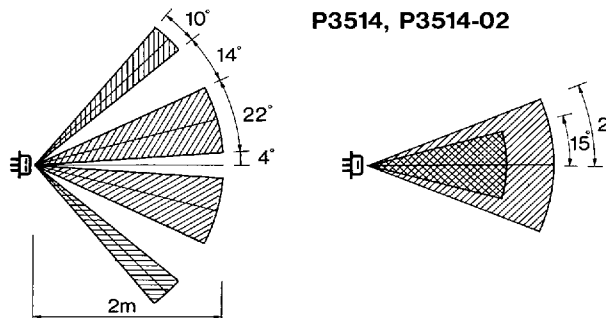


P3514-01, P3514-03

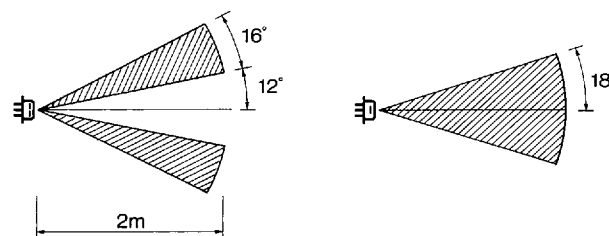


FIELD OF VIEW

P3514, P3514-02

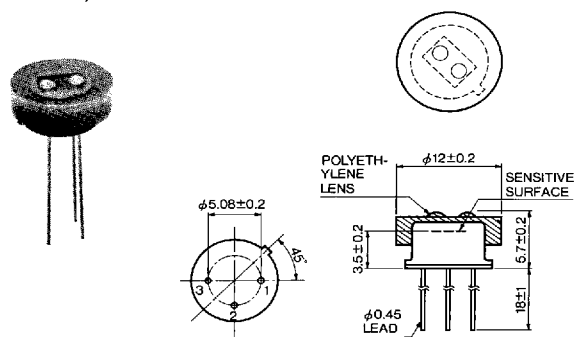


P3514-01, P3514-03



DIMENSIONAL OUTLINE (Unit: mm)

P3514, P3514-02



P3514-01, P3514-03

