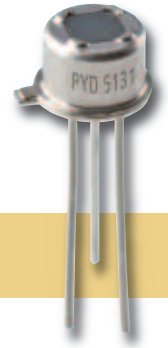


# MINIATURIZED DUAL ELEMENT PYRODETECTORS FOR MOTION SENSING

PYROELECTRIC DETECTORS FOR MOTION SENSING ■



## PYD 5131 – Analog Pyro

### Applications

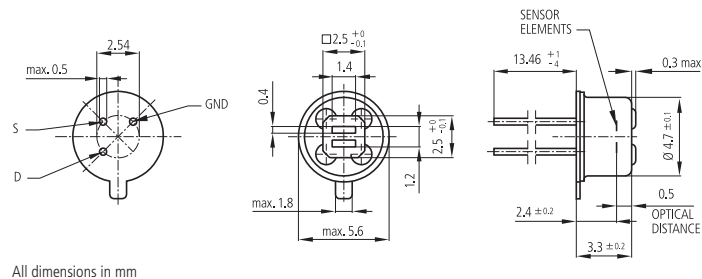
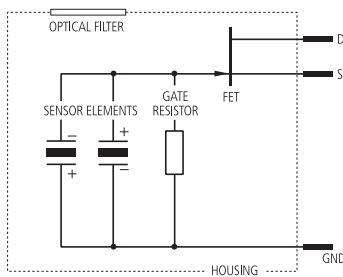
- Auto light switch
- Wall switch

### Features and Benefits

- TO-46 metal housing

### Product Description

This range of pyrodetectors features a miniaturized Dual Element pyro in TO-46 housing. The small housing in connection with a reduced element size and spacing provides potential for reduced-size optics and thus smaller, more discrete, motion detection unit designs.



### PYD 5131 – Analog Pyro

Main Parameter	Symbol	PYD 5131	Unit	Remark
Responsivity, min.	$R_{min}$	9.0	kV/W	$f = 1 \text{ Hz}$
Responsivity, typ.	$R_{typ}$	12.3	kV/W	$f = 1 \text{ Hz}$
Match, max.	$M_{max}$	10	%	
Noise, max.	$N_{max}$	180	$\mu\text{V}_{pp}$	0.4...10 Hz / 20° C
Noise, typ.	$N_{typ}$	75	$\mu\text{V}_{pp}$	0.4...10 Hz / 20° C
Source voltage		0.2 ... 1.5	V	47 k $\Omega$ / 20° C / 5 V
Field of view, horizontal	FoV	99°		Unobstructed
Field of view, vertical	FoV	88°		Unobstructed
Operating voltage		2.0 ... 12.0	V	47 k $\Omega$ / 20° C