



Pyroelectric Infrared Sensors

Pyroelectric Sensors (PYS Type)

Items	PYS-02	PYS-05	PYS-06
Constructions and dimensions (Unit : mm)			
	 1. DRAIN 2. SOURCE 3. GROUND	 1. DRAIN 2. SOURCE 3. GROUND	 1. DRAIN 2. SOURCE 3. GROUND
Element	Compensated single	Dual	Single
Electrode	1.6 φ (mm) 1 pc. (0.5 × 0.2)mm 2 pcs.	(1.0 × 2.0)mm 2 pcs.	(1.0 × 2.0)mm 1 pc.
Field of view	106° (to vertical direction)	138° (X)/125° (Y)	138° (X)/125° (Y)
Package	TO-5 Type		
Voltage sensitivity	1200V/W		
S/N for detection	1.2 × 10 ⁸ cm ² /Hz/W		
Balance difference	10% Max.		
Operating temp.	-25°C ~ +70°C		
Storage temp.	-40°C ~ +100°C		
Supply voltage	3V ~ 15V		

Scope

HDK pyroelectric infrared sensor can detect a trace of infrared ray to yield the electrical signal by means of non-contact method.
HDK pyroelectric infrared sensor is highly sensitive and superior in design of device construction.

Applications

- Lighting control
- Visitor detection
- Automatic flush control of lavatory
- Automatic door control
- Intruder alarm
- Toys
- Others

Pyroelectric Sensor Unit (PYU Type)

Items	PYU-04
Constructions and dimensions (Unit : mm)	 Pin No. Connection 20 VDD 13 TIMER 11 GND 10 CdS 1 OUTPUT
	 R12 LENS 0.5 22.86 13.7 26.05 10 11 13 30.0 20
Supply voltage	DC5V
Output	Open collector(with timer)
Settling time	1 minute after power on
Amp. gain	Selective between 54dB and 68dB.
Operating temp.	-20 ~ +60°C
Storage temp.	-30 ~ +70°C

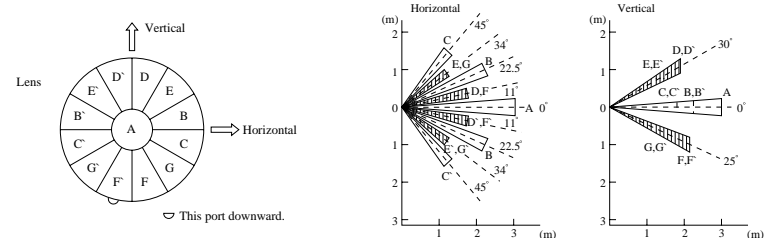
Features

- Small size and light weight
- Various applications of the sensor are obtained by means of the combination of electrode pattern and filter.
- A wide and long range of the detection area will never fail to catch a trace of infrared ray.

Functions

- Set time of output is switched on for every detection of infrared ray.
- With the combination of CdS light sensor, operation can be limited during the dark time(for lighting control etc.)
- 3 meter detecting range is available.

Detection area(with lens)



Application

