

# Panasonic

Panasonic Electric Works

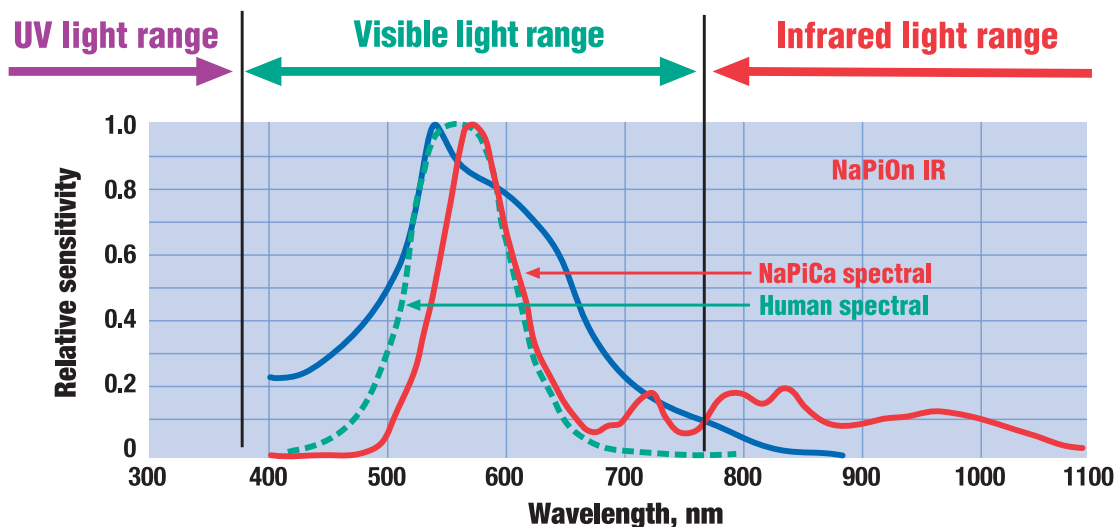
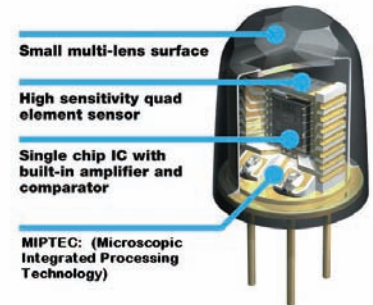


NaPiOn sensors are used in various energy-saving applications including lighting equipment

## Fully Integrated Miniature Motion Sensor Detects Human Infrared Radiation

The NaPiOn motion sensor from Panasonic Electric Works is a passive infrared (PIR) type sensor specially designed to detect human body infrared radiation. All necessary components are combined into a package that is less than 10 mm in diameter. Environmentally safe and energy efficient, the NaPiOn motion sensor offers these outstanding features:

- Fully integrated assembly
- Built-in amplifier and multi-surface lens construction
- Miniature size: 9.5 mm in diameter and 14.5 mm in height
- Excellent noise withstanding capability
- Digital and analog output available
- Dual lens colors (black and white) for design flexibility
- Low power consumption available operating on a 3V power supply



## Cadmium-Free Light Sensor with Built-In Optical Filter

Applications for the NaPiCa include brightness detection for circuits in household lighting, crime prevention lighting, automatic lighting for vending machines, and LCD backlight control.

The NaPiCa light sensor has spectral response similar to that of the human eye. Cd-free and Pd-free, the NaPiCa comes with a built-in photocurrent amplifier in a miniature SMD package—1.0 mm (L) x 3.2 mm (W) x 1.0 mm (H). All that and these features:

- Linear photo current output
- Operates on 1.5 VDC to 6 VDC, suitable for battery operation
- Uses environmentally friendly silicon chips



Thru-hole and SMD types available

Arrow Electronics Lighting Group

1.888.9LIGHT1

<http://lighting.arrow.com>

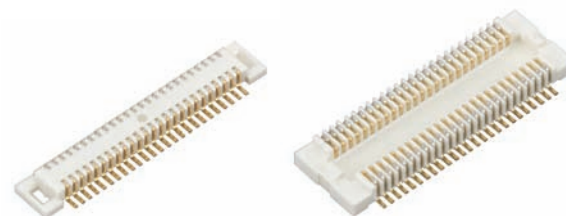
## Narrow-Pitch P5 Series Connectors— for Board-to-Board Connection

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This series of connectors offers strong resistance to adverse environments and high-contact reliability due to Panasonic's unique "tough contact" construction.

- Tough against dropping: bellows contact construction increases resistance to shock of dropping
- Tough against foreign particles and flux: V-notch improves contact reliability
- Tough against solder rise due to Ni barrier construction
- Tough against corrosive gases because of porosity treatment
- P5KF—two-piece structure and 0.5 mm pitch; mated height of 1.5 mm, 2.0 mm, and 2.5 mm
- Simple locking structure; superior mating operation with click feel to indicate that mating is complete
- P5K—0.5 mm pitch; mated height of 3.0 mm and 3.5 mm
- P5KS—0.5 mm pitch; mated height of 4.0 mm, 4.5 mm, 5.0 mm, 5.5 mm, 6.0 mm, 6.5 mm, 7.0 mm, 8.0 mm, and 9.0 mm



P5KF header and socket



P5K header and socket



P5KS header and socket



F4S header and socket

## Narrow-Pitch F4S Series Connectors— for Board-to-FPC Connection

The F4S series of connectors offers strong resistance to adverse environments and high-contact reliability due to Panasonic's unique "tough contact" construction.

- Tough against dropping: bellows contact construction increases resistance to shock of dropping
- Tough against foreign particles and flux: V-notch improves contact reliability
- Tough against solder rise due to Ni barrier construction
- Tough against corrosive gases because of porosity treatment
- Low-profile 0.4 mm pitch connectors that form a board-to-FPC connection with 1.0 mm and 1.2 mm mated height
- Space-saving 3.6 mm width
- Simple lock structure gives tactile feedback that ensures a superior mating/unmating operation feel
- Gull-wing terminals facilitate automatic mounting inspections