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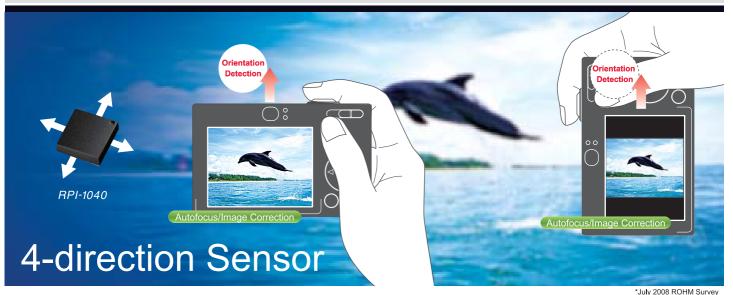
### The industry's thinnest\* (0.8mm)





# **Compact 4-way Detection Sensor**

**RPI-1040** 



Applications

Automatically orients the image based on camera position, allowing for easy viewing and image correction (i.e. autofocus, white balance adjustment)

Orientation Detection

(Mobile phones, digital cameras)





in 4 directions for

The image rotates along with the camera



(Projectors, photo frames)

**Damage Prevention** 

(LCD TVs)





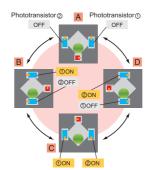
Optimized for any device requiring direction detection functionality

Visit our website for more application examples ROHM Optical Sensors www.rohm.com./products/opto\_device/sensor/4\_direction/uses.html



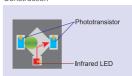
recommended that a sales representative be consulted in advance.

#### Operating Principle



An infrared LED and 2 phototransistors are used to detect orientation in 4

Construction



#### New noise reduction function

### Silent rotation

Noise normally generated during detection is eliminated. Ideal for a wide variety of applications.

#### **■** Optical Method - Advantages

Not susceptible to vibration or magnetic fields

Method	Vibration	Magnetic Field
Optical	0	0
Mechanical	Δ	0
Magnetic	0	×

#### Electrical Characteristics

	Тур.	Conditions
Collector Current	1mA	Ir=5mA, Vc==5V (While Dark)
Leakage Current	0.1mA	IF=5mA, VcE=5V (While Dark)

Excellence in Electronics

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