





# Built-in Sensor Selector Chart

Equipment sensors for improved comfort and convenience, safety and energy conservation



Acceleration Sensor


Made possible by leading-edge MEMS technology, this acceleration sensor is ideal for automotive and mobile devices.

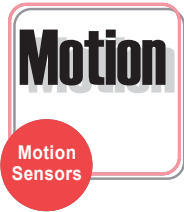
Product name	Acceleration detection range	Characteristics
<b>2-axis GS2</b>  <b>1-axis GS1</b> 	±2g ±1.5g	<ul style="list-style-type: none"> <li>High precision and high sensitivity</li> <li>High reliability: Detection errors due to temperature fluctuation reduced to a minimum.</li> <li>Product lineup covers range of operating voltage and acceleration detection.</li> </ul>
<b>1-axis GF1</b>   Direct mount      Bracket	±1.2g	<ul style="list-style-type: none"> <li>Fast response, high reliability</li> <li>Compact size</li> </ul>



Light Sensor

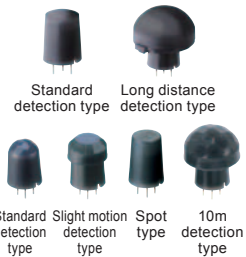
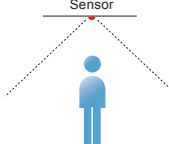
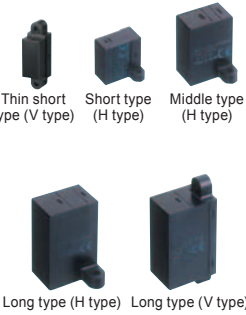
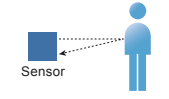
Making us more comfortable with energy efficient devices...Environmentally friendly, cadmium-free

Product name	Peak sensitivity wave length	Characteristics
<b>Light Sensor NaPiCa</b>  Through-hole type	580nm	<ul style="list-style-type: none"> <li>Cadmium-free</li> <li>Built-in optical filter for spectral response similar to that of the human eye.</li> <li>Photocurrent is proportional to illumination. (linear output)</li> </ul>



Motion Sensor

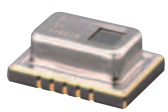
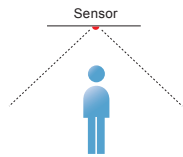
Motion sensors that always detect your slightest movement

Product name	Detection method	Type	Characteristics
<b>Passive infrared sensor ((PaPIRs))</b>  Standard detection type    Long distance detection type Slight motion detection type    Spot type    10m detection type	Detecting the heat (infrared rays) of the human body and other objects. 	WL Standard detection type Long distance detection type VZ Standard detection type Long distance detection type NaPiOn Standard detection type Slite motion detection type Spot type 10m detection type	<ul style="list-style-type: none"> <li>Built-in amplifier for easy use</li> <li>Detects even slight motion of a person</li> <li>Digital output and analog output (with adjustable sensitivity) are available.</li> <li>Ideal for battery driven devices, a low current consumption type WL series (1 µA Min.) added to the lineup.</li> </ul>
<b>MA Motion Sensor</b>  Thin short type (V type)    Short type (H type)    Middle type (H type) Long type (H type)    Long type (V type)	Detecting the presence of the human body (or another object) by the reflected beam of LED light from the sensor itself. 	Built-in oscillation circuit type External trigger type	<ul style="list-style-type: none"> <li>The sensors are ready for immediate use by simply connecting to a DC power supply. The built-in oscillation circuit removes the need to input a start signal.</li> <li>Can be used with a number of different supply voltages.                             <ol style="list-style-type: none"> <li>5V DC type</li> <li>Free-ranging type (5.5 to 27V DC)</li> </ol> </li> <li>These sensors can be used in adjacent positions and can save energy.</li> <li>Can be used with a number of different supply voltages.                             <ol style="list-style-type: none"> <li>5V DC type</li> <li>Free-ranging type (5.5 to 27V DC)</li> </ol> </li> </ul>



## Infrared Array Sensors







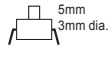
### High Precision Infrared Array Sensor based on Advanced MEMS Technology

Product name	Detection method	Type		Characteristics
<b>Grid-EYE</b> 	Detecting the heat (infrared rays) of the human body and other objects. 	Operating voltage 3.3 V DC 5.0 V DC	Amplification factor High gain Low gain	<ul style="list-style-type: none"> <li>Temperature detection achieved on a two dimensional area with 8 × 8 (64) pixels.</li> <li>Digital output</li> <li>Miniature SMD package</li> </ul>



## Pressure Sensors

### A wide range of rated pressure, including minute pressures

Product name	Pressure medium	Type (*Without glass base type)	Terminal direction	Pressure inlet hole length	Characteristics
<b>PS-A Pressure Sensor</b> 	Air	Rated pressure	Opposite the pressure inlet direction 	3mm 	<ul style="list-style-type: none"> <li>Compact pressure sensor with built-in amplification and temperature compensation circuit</li> </ul>
		$\pm 100, -100, 25, 50, 100, 200, 500, 1,000$ *40kPa		5mm 	
<b>PS Pressure Sensor</b> <b>PF Pressure Sensor</b> 	Air	<Low pressure type> 6kPa	Opposite the pressure inlet direction 	5mm 3mm dia. 	<ul style="list-style-type: none"> <li>Low pressure type ideal for water level detection applications added to lineup.</li> </ul>
		Rated pressure    Bridge resistance $4.9, 34.3, *49.0, 98.1, 196.1, 343.2, 490.3, 833.6, 980.7$ kPa 5k $\Omega$		—	
		*40kPa 98.1, 980.7kPa (PS only)	3.3k $\Omega$		