

Seismic Detector S611

ELEVATOR CONTROL FOR SAFETY AND EARLY RECOVERY FROM EARTHQUAKE



OUTLINE

S611 is a seismic detector developed to specialize in elevator controls. S611 is able to detect 3 kinds of seismic wave (Primary wave, low-Secondary wave, high-Secondary wave), and relay 3 kinds of contact-output to elevator controller. S611 has selectable setting by rotary switch which gives easy installation and setting appropriate to each elevator at site.

FEATURES

- **SIMPLE AND COMPACT**
Compact size is achieved in S611 by integrating a tri-axial acceleration sensor with a processor.
- **INDEPENDENT OUTPUT**
3 independent contact-outputs after detecting seismic wave which corresponds to each preset value of acceleration against 3 kinds of waves, gives precise and appropriate control of elevators.
- **EASY SETTING**
Using rotary switch, acceleration is selectable among 4 settings which are preset as default values when delivered.

- **SELF CHECK FUNCTION**
Self-checking automatically starts at every power on. Error is reported to remote place by contact-output when abnormal condition detected.
- **REMOTE OPERATION**
Reset and self-checking is controllable from a remote place.

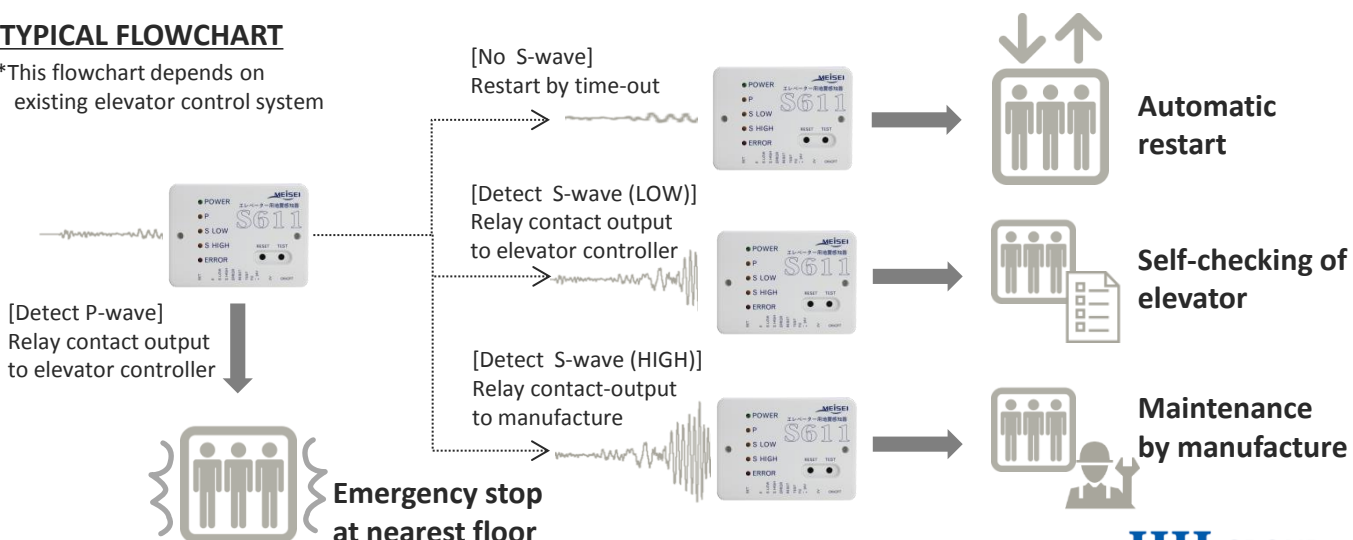
Preset accelerations (Changeable before delivery)

Switch No.	0	1	2	3
P	5	5	5	5
S LOW	80	100	120	200
S HIGH	120	120	150	300

(gal)

TYPICAL FLOWCHART

*This flowchart depends on existing elevator control system



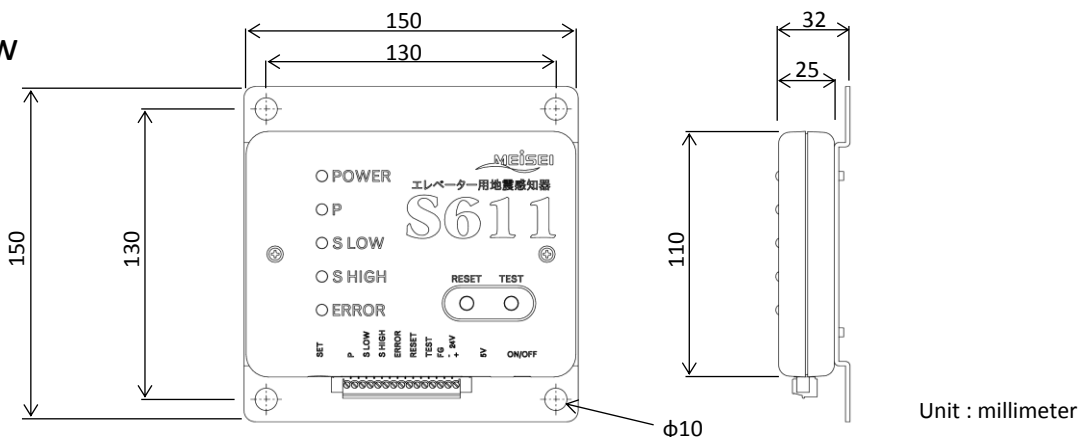
Specifications

Output relay contact	4 contacts (elevator Control 3, error alert 1), (A contact)
Output relay contact capacity	0.5A @CD60V and AC60V, 2Ω
Input signal	DC24V ± 20% (Non-polar), 2 contacts
Physical switch	2 switches (RESET, SELF TEST)
Relay contact connecter	MC1.5/15-STF-3.5, Connectable conductor cross section 0.14 to 0.15mm ²
Sensor type	Capacitance
Setting acceleration range	2.5 to 500 gal (tri-axes: vertical axis, 2 horizontal axes)
A/D conversion	Delta-sigma
Resolution	16bit
Sampling rate	100Hz
Low pass filter	Butterworth filter (quartic), Cutoff frequency 5Hz (-3dB)
High pass filter	Cutoff frequency 0.01Hz (-3dB)
Power source	DC24V (normal), AC90 to 264V, 50/60Hz (optional)
Power consumption	9.5mA(Typical), 13mA(Maximum) @DC24V
Size	W150 × H110 × D25mm
Weight	600g (Anchor including)
Anchor bolt pitch	Anchor 150 × 150, Bolt pitch 130 × 130 φ10
Material	Case: Flame retardant ABS Anchor: Trivalent chromium plating iron
Operating temperature and humidity	-10 to 50°C, 20 to 80% (Non-condensing)

Function

Relay contact-control reset function	Push physical reset switch. Or P reset and S LOW reset are controllable by remote.
Test function	Push physical test switch. Or 3 kinds of self-testing are executable by input signal durations.
Maintenance (sensor check)	Push both physical reset and test switch.

Over view



CAUTION

- Read "Manual" ahead of the use to use it correctly and safely.
- The specification and externals might change without a previous notice. Please acknowledge it beforehand.
- The product on catalog is a standard products. We will customize it according to customer's specification. Please ask in detail.
- Our company cannot assume the responsibility of any claim of the third party beforehand about damage and passive damages in money generated by using our products.
- The color of the product photography on catalog might be different from actual product because of the print.

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