

# ShockTec™

## Digital Shock Detectors

**ShockTec™ digital shock detectors provide reliable 24 hour perimeter protection.** A break-in is detected as soon as the intruder attempts to force, smash, drill or even saw through the protected window, door, wall or roof. This means that the alarm is activated whilst the intruder is still outside, minimizing damage to the premises and its contents, and maximizing personal security.

**ShockTec™ detects gross attacks and provides an exceptional level of discrimination between real attacks and background vibrations.**

An advanced digital microprocessor with Intelligent Digital Signal Processing accurately analyzes the vibration signal from the piezo-electric sensor.

The DSP methods include analysis of signal frequency, energy, amplitude and duration.

**The ShockTec™ has optional magnetic reed switches** for double protection on opening windows and doors.

The detector may be mounted vertically or horizontally, with the magnetic contact on either side of the detector.

**The ShockTec™ has a built-in calibration method that is accurate and reliable.**

Indications to the installer include over-sensitive, under-sensitive or correctly calibrated conditions.



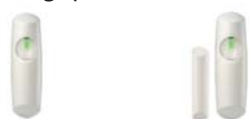
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R I S C O G R O U P

Intelligence in the Service of Security

## ShockTec™ Features & Benefits

- 24 hour protection for windows, doors, walls and roofs, with unrestricted movement throughout the premises
- Digital Microprocessor with Intelligent Digital Signal Processing provides excellent false alarm immunity by cutting out frequencies that cannot be caused by an illegal entry attempt
- Gross Attack detection to identify high energy impulses
- Tri-colour LED enables accurate and reliable calibration, with “over-sensitive” and “under-sensitive” indications
- Model with internal magnetic reed switches for double protection (shock and contact) saves installation time and cost
- Magnet can be mounted on either side of the detector up to a 20 mm(0.8 inch) gap
- Mounts on frame or glass vertically or horizontally
- Dual stage adjustment potentiometer
- Encapsulated piezo-electric sensor
- Cover tamper protection
- Modern design with ample wiring space and hermetic wiring seal.



## Technical Specifications

	ShockTec™	ShockTec™ with Magnetic Contacts
Supply voltage	9V –16V DC	
Current consumption (typical)	12.5 mA	7.5 mA
Operational temperature	-20°C to 60°C	
Maximum humidity	95% non-condensing	
Sensitivity setting	Dual stage potentiometer	
Tri-colour LED indicator	Orange: Over-sensitive Green: Alarm & correct calibration Red: Under-sensitive	
Contact ratings: Alarm relay	100mA at 24VDC, NC	100mA at 24VDC, NC, Opto relay
Tamper relay	500mA at 24VDC, NC	500mA at 24VDC, NC
Reed relay	N/A	100mA at 24VDC, NC
Alarm time	2.5 seconds	
Magnetic contact reed relay option	N/A	Two reed relays enable locating the magnet on either side of the detector
Latching modes	Any or 1 <sup>st</sup> to latch operation modes	
Max no. of units on Any Latch loop	80	
Max no. of units on 1st to Latch loop	10	
False alarm protection	Digital microprocessor signal processing and noise reduction with maximum ground plane	
Electrostatic discharge	No false alarms up to 8kV	
RF immunity	40 V/m from 80MHz to 1GHz	
Enclosure material	Flame retardant ABS	
Enclosure dimensions	25x28x95mm 0.98x1.1x3.74 inch	25x28x95mm –detector 0.98x1.1x3.74 inch
		10x12x58mm –magnet 0.39x0.47x2.28 inch

Complies with EN50131-1 Grade 3, Class I



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## Exceptional immunity to false alarms for your peace of mind

The ShockTec™ employs an advanced digital microprocessor to analyze the vibration signal.

A unique feature of the ShockTec is digital sampling of the signal simultaneously in two separate channels, each channel amplified at a different gain, enabling a very high dynamic range.

An exceptional level of discrimination between real attacks and vibrations caused by regular activities is achieved by analyzing the event parameters.

The event should be of legal frequency, within the detection area as illustrated in Figure 1 below. The event should be above the measured level of constant noise, and the duration should be limited.

The event energy is measured simultaneously by two channels, enabling precise analysis of the vibration signal.

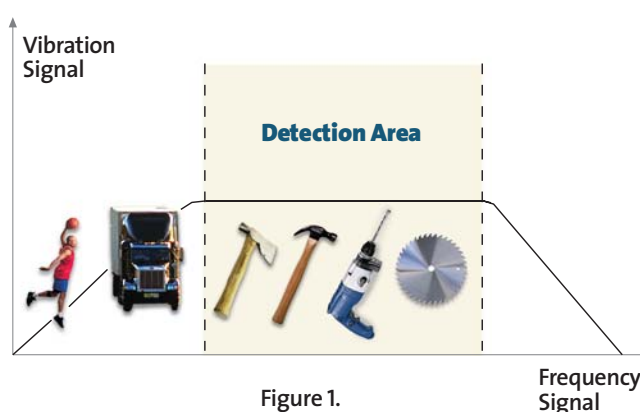


Figure 1.

## Typical Detection Range

Surface	Concrete	Brick Wall	Steel	Glass	Wood	Plywood
Radius	1.5m 5ft	2.5m 8.2ft	3m 10ft	3.5m 11.5ft	3.5m 11.5ft	4m 13ft

## Ordering Information

Part Number	Description
RK600S00000A	ShockTec Digital Shock Detector, white
RK600SM0000A	ShockTec Digital Shock Detector with Magnetic Contact, white
RK600S0BR00A	ShockTec Digital Shock Detector, Brown
RK600SMBR00A	ShockTec Digital Shock Detector with Magnetic Contact, Brown

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www.rokonet.com

**U.S.A. - Rokonet Industries U.S.A. Inc.**  
Toll Free:1-800-344-2025, Tel:+305-592-3820, Fax:+305-592-3825, E-mail:sales@rokonetusa.com

**UNITED KINGDOM - Risco Group UK.**  
National Sales: 0870-60-510000, Fax:+44-161-6555501, E-mail: sales@risco-group.co.uk, www.risco-group.com

**ITALY - Rokonet Electronics S.R.L.**  
Tel:+39-02-392-5354, Fax:+39-02-392-5131, E-mail: info@rokonet.it

**SPAIN - Rokonet Iberia S.L.**  
Tel:+34-91-490-2133, Fax:+34-91-490-2134, E-mail: sales@rokonet.es

**BRASIL - Rokonet Brasil Ltda.**  
Tel:+55-11-3661-8767, Fax:+55-11-3661-7783, E-mail: rokonet@rokonet.com.br

**ISRAEL - Rokonet Electronics Ltd.**  
Tel: +972(0)3-963-7777, Fax: +972(0)3-961-6584, E-mail: info@rokonet.co.il