Vibration Detector





Key Features include:

- High sensitivity
 Effective on a wide varietry of materials
 High immunity to environmental disturbances
- Microprocessor-assisted signal evaluation
- Adjustable sensitivity
- Supply voltage monitoring
- Low current consumption
- Ease of installation

ES400

Vibration Detector



Application

The vibration detector is used on windows, doors, walls, ceilings and floors for early detection of burglary attempts. For enhanced detection reliability, the vibration detector can be used in combination with glass-break detectors and magnet contacts.

Operation

The vibration detector incorporates a piezoelectric sensor which reacts only to high-frequency structure-bourne vibrations or to single, powerful impacts. Any signals detected are reliably and safely analysed by means of a microprocessor triggering an alarm.

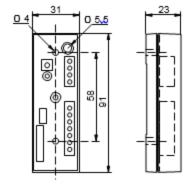
Sensitivity can be selected on a potentiometer, and the counter channel can be programmed for 1 to 4 impacts. The vibration detector incorporates a first and subsequent alarm memory.

The LED/resetting can be remotely controlled via the DAY/NIGHT function. Moreover, there is a choice between automatic reset and reset by interruption of the operating voltage. The detector features supply voltage monitoring which will trigger an alarm at <7V. The tamper contact provides protection against opening the cover. The alarm relay is protected against external magnetic fields.

Installation

The vibration detector is screws onto the surface to be monitored, for example, on window frames, brick or concrete walls, or metal doors. The coverage area varies with the type of material. For performance and installation checks, use the EST400 test tool.

Dimensions





ES400

Vibration Detector



Technical Data

Supply voltage (nom. 12V)	815VDC
- Max. ripple (01MHz)	2Vss
Current consumption	
- At 12VDC / quiescent	6mA
- At alarm	10mA
Frequency range	17kHz
Alarm output	
 Electronic relay 	33Ω in series
 Contact rating 	25VDC / 100mA
 Alarm hold time 	2s
 Alarm memory/Test indicator 	LED
Tamper monitoring	Microswitch
 Cover contact 	25VDC /100mA
Control inputs	
 For testing 	LOW <3V/HIGH >6V
 For unset/set input 	LOW <3V/HIGH >6V
Coverage area (approximate values)	
 Steel/Wood/Plywood 	Radius 3m
 Brick/Paving stone 	Radius 2m
- Concrete	Radius 1m
Sensitivity	Adjustable on potentiometer
Pulse counter	14 impacts selectable
Ambient conditions	
 Storage temperature 	-20°+50°C
 Operating temperature 	-20°+50°C
 Humidity of the air, DIN 40040 	Class F (max. 95% rel.)
 IEC 529 housing protection 	IP31 `
 Immunity to HF interference fields 	
- (0.1MHz1GHz)	<15V/m

Accessories

Туре	Art No	Description	Weight
EST400	NBPZ:4726120001	Test tool for ES400	0.080Kg
ESC400	N54534-Z107- A100	Metal cover for ESC400	0.108Kg
ESM400	N54534-Z106- A100	Mounting plate for steel/Concrete for ES400	0.066Kg
ESK400	N54534-Z108- A100	Outdoor housing for ES400	0.103Kg

Details for ordering

Туре	Art No	Description	Weight
ES400	NBPZ:5370490001	Vibration detector, white	0.045kg

Issued by Vanderbilt Clonshaugh Business and Technology Park Clonshaugh Dublin 17 Ireland www.vanderbiltindustries.com

Data and design subject to change without notice. Supply subject to availability.

