



DF420

Eflex Interior Security Microphonic Cable Sensor System

The E - Flex 3i is an intrusion detection sensor for the protection of building interiors. It adapts the proven strain sensitive cable technology to the specialized requirements of indoor security applications. The indoor security system designed to function with the wide range of surfaces and materials encountered when protecting structures such as walls, ceilings, roofs, stock cages, floors and pipes.

The E-Flex can provide cost effective protection for warehouses, banks, vaults, ammunition bunkers, weapon storage facilities and a variety of commercial and industrial establishments. Because the E - Flex sensing element is a low- profile simple coaxial cable, it can be easily mounted on, or in, walls, ceilings, roofs and false floors. The sensor cable can be attached directly to these surfaces, or it can be installed in conduit attached to the surfaces to be protected.

One signal processor can monitor up to 600 meters of sensor cable with a consistent sensitivity. The E-Flex sensor cable is microphonic and the E-Flex signal processor also provides a "listen- in" capability for alarm assessment. The E-Flex sensor cable is fully supervised against cutting and shorting. It carries a minute supervision current of 5 micro amps and, therefore, is intrinsically safe and can be used in hazardous environments.



Standard Features

- Detects shock, impact and sustained attack
- Used on walls, roofs, ceilings, stock cages, floors and pipes
- Microphonic/ Strain-sensitive technology
- Selectable frequency response
- Up to 1,115 m2 coverage per zone
- Built-in calibration indicator
- Simple installer adjustments
- Low power consumption
- Built in audio "listen-in" capability

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Specifications

Power supply	10.5 VDC; max. ripple 2%
Current consumption	90 mA with LED display disabled 250 mA with LED display enabled
Outputs	
Alarm	Changeover contact (NO or NC selectable) 500 mA at 28 VDC
Supervision	Changeover contact (NO or NC selectable) 500 mA at 28 VDC
Tamper	Tamper switch - 1 pole, 2 positions
Audio	Microphonic sensor cable signal for audio amplifier
Controls	
	Frequency band selector: High - Low
	Sensitivity selection: 1 to 10
	Count selector: 1 to 9
	Sustained attack selector : 1 to 5 s
	LED display for calibration en/disable
Dimensions (W x H x D)	Steel enclosure: 180 x 200 x 30 mm for indoor mounting only
Ambient conditions	
Ambient conditions	-10 to +60°C; 95% relative humidity, non-condensing
Storage temperature	-50 to +70°C - relative humidity 95%, non-condensing

Ordering Information

Part No.	Description
DF420	Building Interior Security System
DF811	Sensor Cable 300 m
DF811S150	Sensor cable 150 m
DF821	Self-adhesive clips - 500 pcs for indoors
DF823	Cable Splice / Terminator Kit
DF824	Motion meter, Sonalert

Operation

The E-Flex 3i signal processor monitors and analyzes either of two selectable frequency bands, and produces an alarm when the signals, generated by the E-Flex sensor cable, exceed the threshold for the selected band.

In addition to selecting the proper frequency response, the user can select the number of impacts required before an alarm is generated; the length of time during which those impacts must occur; and the minimum duration of a sustained attack required to generate an alarm.

Since all materials have different responses to a penetration attack, the E-Flex 3i can be calibrated to provide optimum performance for each application. Total sensor sensitivity is adjustable to any of ten discreet levels.

