

Model: HDF-SHOCK

**SENSOR FOR THE DETECTION OF SHOCK
AND CHANGE OF POSITION**

Commercial datasheet



Approximate actual size

SECURITY TECHNOLOGY FOR MUSEUMS AND EXHIBITIONS

DESCRIPTION

The compact sensors from the **Human Detector Flex** series detect oscillations, vibrations and changes in position, such as those generated when lifting transport boxes or breaking showcases. Due to its very small design and favourable price, the **HDF-SHOCK** sensor can be used easily and in large quantities. Operating and maintenance costs are negligible, thanks to the extremely long battery life.

The integrated 868 Mhz transmitter module achieves a high range even in solid buildings such as castles and palaces. The **Human Detector Flex** sensor **HDF-SHOCK** can be combined with all alarm and voice output devices (such as **HDF-BUZZER** and **HDF-SPEECH**) and the alarm monitoring unit **HDF-AMD**.

HDF-SHOCK secures:

- Transport and storage boxes
- Showcases
- Items in warehouses

The **HDF-SHOCK** alarm module is a low-cost alternative to the **HDF-3D PROTECT** sensor module. Its extremely long battery life makes it ideal for monitoring stored exhibits in warehouses. The extensive coverage of the integrated radio module ensures reliable connectivity.

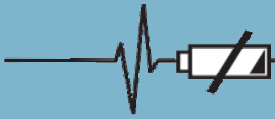




High range in buildings



Long battery life



Battery monitoring



Mains and battery operation



Secure wireless transmission



Shock and vibration sensor

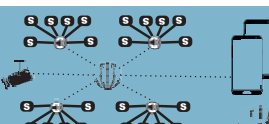


Alarm centre

EASY-Mode - starter class



MULTI-Mode - medium class



PROFI-Mode - premium class



TECHNICAL SPECIFICATIONS

Technology	Wireless alarm sensor with mechanical shock sensor
Detection method	Shock and change of position
Emphatic installation	Concealed near the outer layer of the object to be protected, soundproof substrate connected to the outer layer
Transmission frequency	869,5 MHz
Transmission power	+ 15 dBm
Range	Up to 1500 m in open area, good penetration of walls due to modulation with frequency spread spectrum modulation *1
Supply voltage	3 V lithium battery CR2450 changeable, external supply voltage 8-14 V AC/DC *2
Supply current	Typically 2 µA in standby, 50 mA during transmission
Response time	Typically 50 ms for complete transmission
Other functions	Concealed micro switch for switching on and off Micro push-button for linking individually and for test mode Selectable alarm channel Long battery life up to 10 years *3 Monitoring strength of receive signal Monitoring battery voltage (alarm before end of battery life) All operating modes supported (EASY-, MULTI- and PROFI-Mode)*4
LED	3 mm LED red indicating radio operation, 3 mm LED green indicating program function
Dimensions	70,4 mm (L) x 50,4 mm (W) x 17 mm (H)
Weight	Approx. 41 grams including battery
Material of casing	Impact-resistant plastic ABS UL94V-1
Protection class	IP20 (EN 60529)
Temperature range	-10° C to +60° C if powered
Humidity	0-95%, non-condensing
Conformity	EN 61000-6-2; EN 61000-6-3; EN 62368-1; EN 63311 ETSI EN 301489-1, ETSI EN 301489-3, ETSI EN 300220-2; EN 63000 (RoHS)

*1 The range achieved may vary depending on the spatial conditions. All measurements carried out with standard module antenna.

*2 We reserve the right not to ship the CR2450 lithium button cells in case of airfreight. A credit note will be issued therefore.

*3 The specified value is approximate. The service life may change depending on alarm frequency, temperature and battery age.

*4 For more information on the various operating modes, please refer to the separate data sheets.

Specifications are subject to change without prior notice. All measurements were performed under specific conditions.

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www.human-detector.com

Human Detector® HDF-SHOCK SENSOR FOR THE DETECTION OF SHOCK AND CHANGE OF POSITION

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