

Model: HDF-3D PROTECT

SENSOR FOR MONITORING STRUCTURE-BORNE SOUND

Commercial datasheet



Approximate actual size

SECURITY TECHNOLOGY FOR MUSEUMS AND EXHIBITIONS

DESCRIPTION

The HDF-3D PROTECT sensor is able to detect vibrations of varying severity. It is therefore able to detect structure-borne sound, which occurs when doors and hatches are forced open, but also when glass panes are hit. The compact sensor module can be easily and quickly concealed. Any position to which internal shock waves are transmitted is suitable. The HDF-3D PROTECT is the first choice for protecting showcases, furniture and technical exhibits. As the battery life is over 6 years, the sensor module can be operated after installation without any additional work or expense. The integrated 868 Mhz transmitter module achieves a high range even in solid buildings such as castles and palaces. The Human Detector was sensor HDF-3D PROTECT 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-3D PROTECT secures:

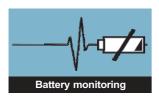
- Showcases and display cabinets
 - Pedestals and steles
 - Figurines
 - Technical exhibits
 - Vehicles
 - Models and much more

The intelligent structure-borne sound sensors can be used almost anywhere. They reliably detect the slightest vibration and movement.









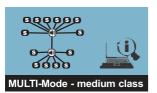


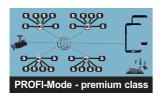














TECHNICAL SPECIFICATIONS

Technology	Wireless alarm sensor for monitoring structure-borne sound
Detection method	Intelligent 3D acceleration sensor (sensitivity in the mG range)
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 9 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 XYZ acceleration sensor with measuring range of mG - G Automatic microprocessor controlled calibration Long battery life up to 6 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)

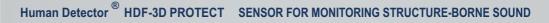
- *1 The range achieved may vary depending on the spatial conditions. All measurements carried out with standard module antenna.
- *2 We reserve the right not to ship the CR2450 lithium button cells in case of airfreight. A credit note will be issued therefore.
- *3 The specified value is approximate. 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.

DISCLAIMER This document, as well as all other documents (offers / specifications / letters / etc.), do not guarantee any functionality of our products desired by the customer. **heddier electronic** does not guarantee any functionality or marketability desired by the customer. The customer should be able to make his own decision on the basis of the transmitted documents. **heddier electronic** supports him in this as far as it is given by the "General Terms and Conditions of Delivery and Business of heddier electronic GmbH".

In no event will **heddier electronic** be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information from this document or the products to which the information refers. Excluded from this are damages caused by negligent behavior or damages regulated by superior laws.

www.human-detector.com





heddier electronic GmbH Raiffeisenstraße 24 48734 Reken Germany

Phone +49 (0) 2864 95 178-0 Fax +49 (0) 2864 95 178-28 info@human-detector.com www.human-detector.com