

## Model: HDF-TOUCH

### SENSOR MODULE FOR THE CAPACITIVE PROTECTION OF OBJECTS

Commercial datasheet



Approximate actual size

## SECURITY TECHNOLOGY FOR MUSEUMS AND EXHIBITIONS

### DESCRIPTION

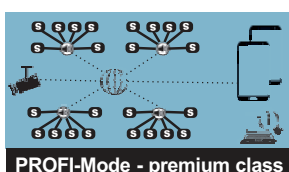
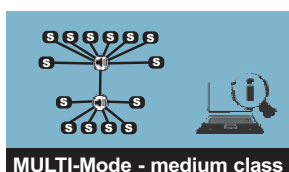
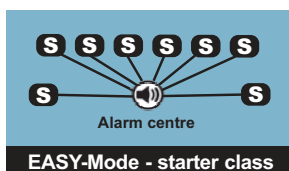
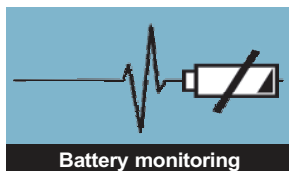
The **HDF-TOUCH** wireless alarm module enables capacitive protection of objects in museums up to the vehicle size. A sensor plate and a reference plate are connected via a plug-in contact. Objects made of metal, e.g. cups, but also automobiles, can be connected directly. There are 64 levels for the adjustment of the sensitivity. Therefore an alarm is triggered before the actual physical contact. A maximum battery life of 12 months is possible, depending on the selected sensitivity and type of object. The operating time of the sensor module can be extended to several years by using external batteries. After that time, the battery must be changed or recharged. 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-TOUCH** 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-TOUCH secures:

- Showcases and display cabinets
- Pedestals and steles
- Furniture and porcelain
- Technical exhibits
- Jewellery, coins, etc.
- Vehicles
- Models and much more

The proven capacitive touch sensor reliably detects any approach before the actual physical contact.





## TECHNICAL SPECIFICATIONS

Technology	Wireless sensor module for capacitive field monitoring
Detection method	Massless projected capacitive field change (PCAP)
Emphatic installation	Any hidden installation location near the sensor and reference plate. Maximum distance between sensor module and sensor plate approx. 200 cm.
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 60 to 560 µA in standby (depending on setting), 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 Connector for connecting the sensor and reference plate Battery life up to 12 months depending on measurement settings *3 Extend battery life with external battery/rechargeable battery 64 selectable sensitivity levels, standard and energy-saving mode 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) 70,4 mm (L) x 60 mm (W) x 17 mm (H) with connector
Weight	Approx. 43 grams including battery and connector
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-TOUCH SENSOR MODULE FOR THE CAPACITIVE PROTECTION OF OBJECTS



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