Human Detector® *Flex*

Model: HDF-EXTERN

Approximate actual size

ALARM MODULE FOR THE SUPPLY AND EVALUATION OF EXTERNAL SENSORS

Commercial datasheet

EN

DESCRIPTION

Both passive and active sensors can be connected to the **Human Detector** *Flex* via the wireless **HDF-EXTERN** alarm module. Two reporting channels are available. This allows for special sensors such as laser scanners with multiple detection curtains to be connected as well. Sensors can have either a NO or NC output. The external sensor can be supplied via the alarm module with a suitable external power supply for the **HDF-EXTERN** module. 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-EXTERN** 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-EXTERN supports:

- **Laser scanner**
- **PIR motion detector**
- **Glass breakage sensors**
- **Smoke and fire detectors**
- **Radar detectors and more**

The HDF-EXTERN alarm module enables the integration of any sensors into the Human Detector *Flex* system. The optional operation with mains adapter or battery offers a wide range of application possibilities.
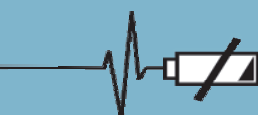

Human Detector®

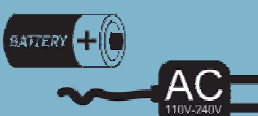Human Detector® - **SECURITY MADE EASY**

High range in buildings

10 years
Long battery life

Battery monitoring

Mains and battery operation

Secure wireless transmission

PIR
LASER
NC-OUT
HDF
External sensor connection

Alarm centre
EASY-Mode - starter class

MULTI-Mode - medium class
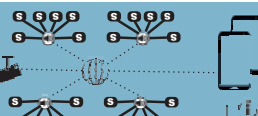
PROFI-Mode - premium class

TECHNICAL SPECIFICATIONS

Technology	Wireless alarm module for connecting external sensors
Interface	2 channels NC (normally closed) and NO (normally open)
Emphatic installation	Installation in any given location near the external sensor. The sensor can be supplied in power supply operation via the **HDF-EXTERN** alarm module.
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
Power supply for external sensors
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)
70,4 mm (L) x 60 mm (W) x 17 mm (H) with connectors
Weight	Approx. 45 grams including battery and connectors
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.

www.human-detector.com

Human Detector® HDF-EXTERN ALARM MODULE FOR THE SUPPLY OF EXTERNAL SENSORS

Human Detector®

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