

Data sheet

V100-414 Receiving unit | HF | TCP/IP | Plug-and-socket power supply unit



Description

The receiving unit works together with a reading unit and transponders. The reading unit (LF) generates a spherical electromagnetic detection field. This "wakes up" sleeping transponders from their stand-by mode as soon as they are brought into the field. At the same time, the reading unit transmits its identification number (LF-ID) to the transponder. The transponder in the field sends its own identification number (Tag-ID) as well as the received LF-ID to the receiving unit (HF). The received data is processed and sent from the receiving unit via potential-free contacts to the in-house nurse call system or mobile PPE/DECT systems. HF dependencies can be realised by external devices (reed contacts, etc.). TCP/IP for network solution included.

Data table

| | |
|--|--|
| Dimensions PCB HF (WxHxD) | 80 x 100 x 19 mm |
| Power supply | 10-36 V (DC) |
| Current consumption at 12V DC | 100 mA (with X-port connected up to 200 mA) |
| Current consumption at 24V DC | 50 mA (with X-port connected up to 100 mA) |
| Frequency | 868 MHz communication frequency |
| Weight | 63 g |
| Connections | 3 x relay |
| | RF module slot (RFM 22/23) |
| | 2 x optocoupler inputs, X3.10, X3.11 |
| Dimensions TCP/IP (X-Port) (WxHxD) | 33.9mm x 14.5mm x 18.3mm |
| Weight TCP/IP plug-on board | 14 g |
| Operating temperature | -40°C to +85°C normal mode / -40 to +75°C high performance mode |
| Power supply | 3.3V |
| Ser. Speed | 921,600 baud |
| Housing dimensions (WxHxD) | 230 x 143 x 34.5 mm |
| Total weight | 459 g |
| Degree of protection | IP 42 - not suitable for outdoor installation |
| Housing colour | RAL 9010 white (OEM version); RAL 7016 anthracite |
| Material | ABS PA 765 |
| Cable inlets | Several predetermined breaking points for cable inlets available |



Martin.Care

Sicherheitssysteme für das Gesundheitswesen

| | | | |
|---------------|----------------------|------|-----------------------------------|
| X1.1 | + 10-36V | X2.1 | K3 Schließer |
| X1.2 | GND | X2.2 | K3 Pol |
| | | X2.3 | K3 Öffner |
| X6.1 | IMCLR | X2.4 | K2 Öffner |
| X6.2 | + 5V | X2.5 | K2 Pol |
| X6.3 | GND | X2.6 | K2 Schließer |
| X6.4 | SD | X2.7 | K1 Öffner |
| X6.5 | SC | X2.8 | K1 Pol |
| | | X2.9 | K1 Schließer |
| | | | |
| X3.1 | +5V | JP1 | gesetzt: Beeper ist aktiv |
| X3.2 | Out1 | JP2 | gesetzt: Relais K3 ist aktiv |
| X3.3 | Out2 | E1 | LED (grün) 3,3Volt |
| X3.4 | Out3 | E2 | LED (grün) HF-Aktivität |
| X3.5 | Out4 | E4 | LED (orange) Störung/Service |
| X3.6 | Out5 | | |
| X3.7 | Out6 | | |
| X3.8 | Gnd | SW1 | DIP-Schalter 8-stellig |
| X3.9 | opto - | SW2 | DIP-Schalter 8-stellig |
| X3.10 | optoin 1 | | |
| X3.11 | optoin 2 | S1 | Programmierungstaste |
| X3.12 | +5V | S2 | Programmierungstaste |
| | | | |
| X5.0 | nicht belegt | SG1 | Signalgeber |
| X5.1/X5.2 | Sub-B/C/E Steckmodul | | |
| X5.0.3/X5.1.3 | GND | X7 | Steckplatz für RF-Modul(RFM22/23) |

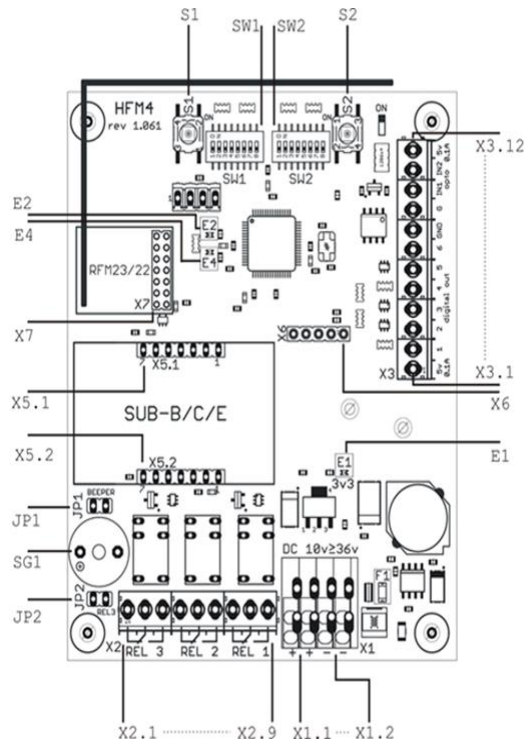


Figure 1 Sketch HF board

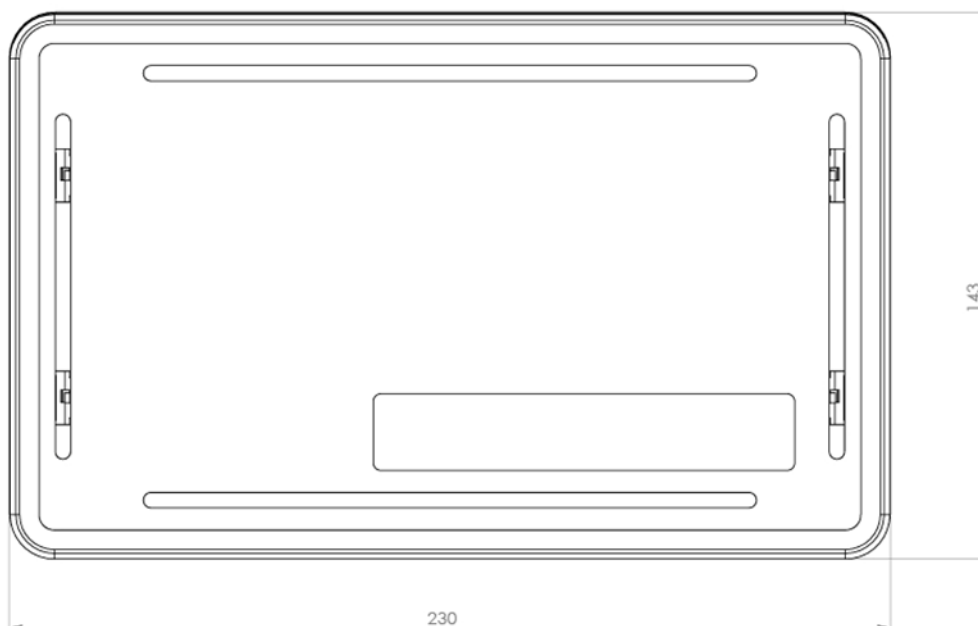


Figure 1 Sketch housing front view

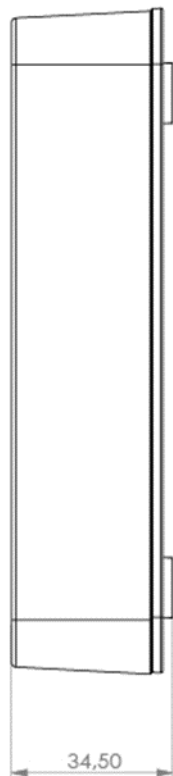


Figure 2 Sketch housing front view

Martin Elektrotechnik GmbH hereby declares that the article V100-414 is in conformity with Directives 2014/53/EU, 2014/35/EU, 2014/30/EU. The full text of the EU Declaration of Conformity is available at the following website: <https://martin-elektrotechnik.freshdesk.com/support/solutions>

The content has been compiled with the utmost care and is based on information that is considered reliable. However, no liability can be assumed for its accuracy.

Copyright

© 2020, Martin Elektrotechnik GmbH. All rights reserved.
This publication may not be reproduced in whole or in part, stored in a retrieval system, or transmitted in any form or by any means, electronic, photocopying, recording or otherwise, without the prior written permission of Martin Elektrotechnik GmbH.

Disclaimer

It is our endeavour to develop, manufacture and document our products and corresponding documentation with the greatest possible care. However, Martin Elektrotechnik GmbH assumes no obligation or warranty with respect to the contents of this documentation and specifically disclaims any liability for merchantability or fitness for a particular purpose. In addition, Martin Elektrotechnik GmbH reserves the right to revise this publication and to make changes from time to time without obligation of Martin Elektrotechnik GmbH to notify any person of such revisions. The latest version of these operating instructions can be downloaded from the Internet at <http://ticket.martin.care/support/home>.