

Data sheet
V100-411 Receiving unit | HF | Plug-in 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.)

Table data

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)



Martin.Care

Sicherheitssysteme für das Gesundheitswesen

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
Housing dimensions (WxHxD)	230 x 143 x 34.5 mm
Total weight	445 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

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

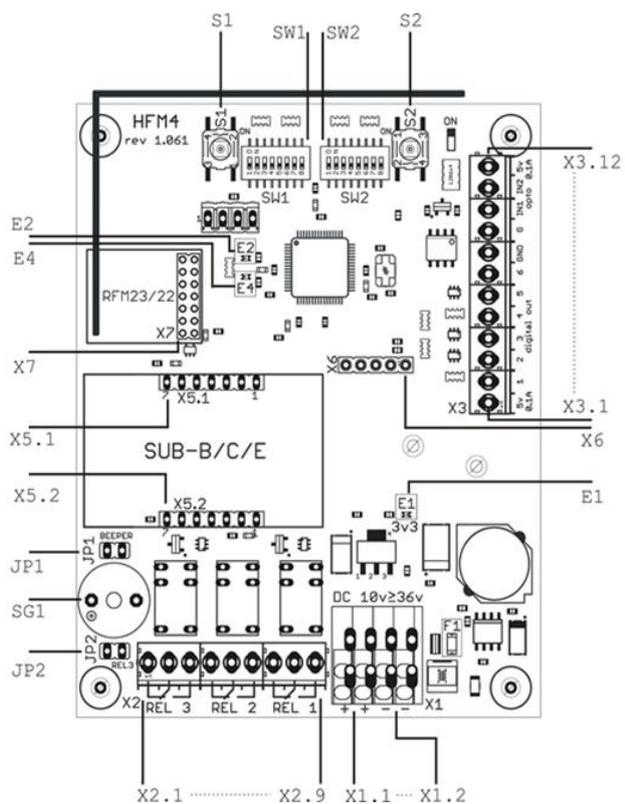


Figure 1 Sketch HF board



Martin.Care
Sicherheitssysteme für das Gesundheitswesen

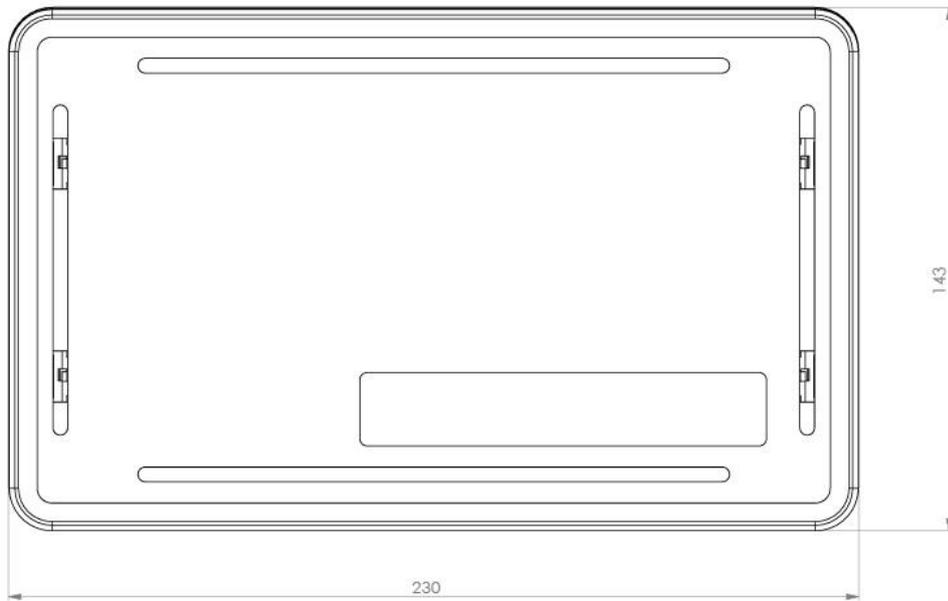


Figure 2 Sketch housing front view

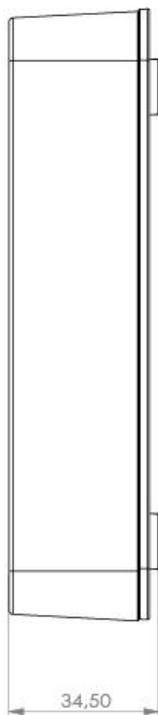


Figure 3 Sketch housing side view



Martin Elektrotechnik GmbH hereby declares that the article V100-411 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

We 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>.