



Mobility Monitor

Connecting to the Nurse Call System

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1. Introduction

Mobility Monitor is used to evaluate the mobility of a person in a nursing home or hospital. The information on mobility can be used by the nursing staff as additional information to estimate the risk for pressure ulcers and to define the appropriate measures.

To evaluate mobility the **sensor unit** of Mobility Monitor is placed under the mattress and the **control unit** is attached to the bed.

The control unit can also be connected via cable to the nurse call system. If there is no mobility over an extended period of time, or if the resident leaves the bed, a nurse call can be triggered if desired.

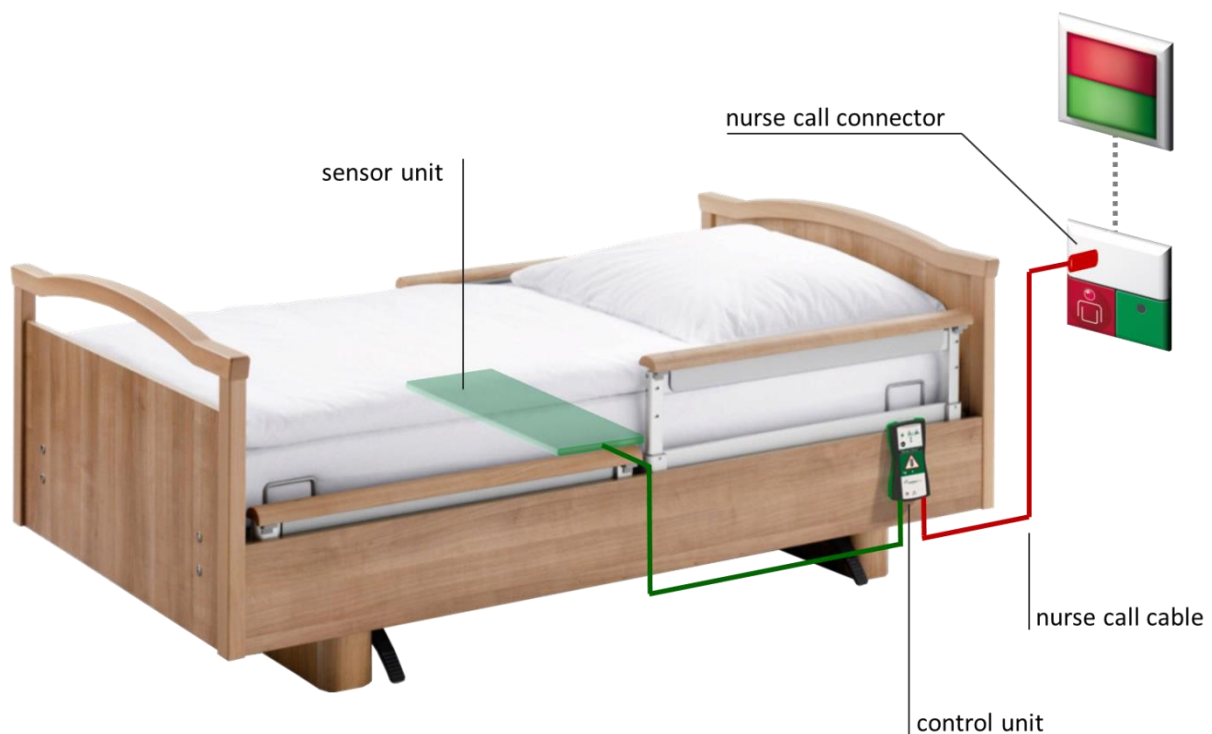


Figure 1: Sensor unit, control unit and connection to the nurse call system

Mobility Monitor is delivered with a nurse call cable. On request, the cable can be adapted to your system by compliant concept. In this case the cable is prepared with the appropriate nurse call connector and made available to you.

Below you will find further information in case you decide to adapt the nurse call cable by yourself.

2. Functioning

The nurse call is connected via a circular connector to the control unit of Mobility Monitor. Chapter 3 describes how to connect the plug.

A call is initiated by the control unit as a short pulse via relay. The relay has a switching contact with two outputs (NO / NC). When the relay is energized, one contact closes (NO = normally open) and a second contact opens (NC = normally closed). By using two opposing contacts (NO and NC) various nurse call systems can be controlled.

Note: If the nurse call system has only one terminal and the resident or patient should continue to have the option to press the nurse call, a Y-connector can be used.

Note: If the nurse call system requires a constant signal instead of a pulse, please contact our customer support (page 7).

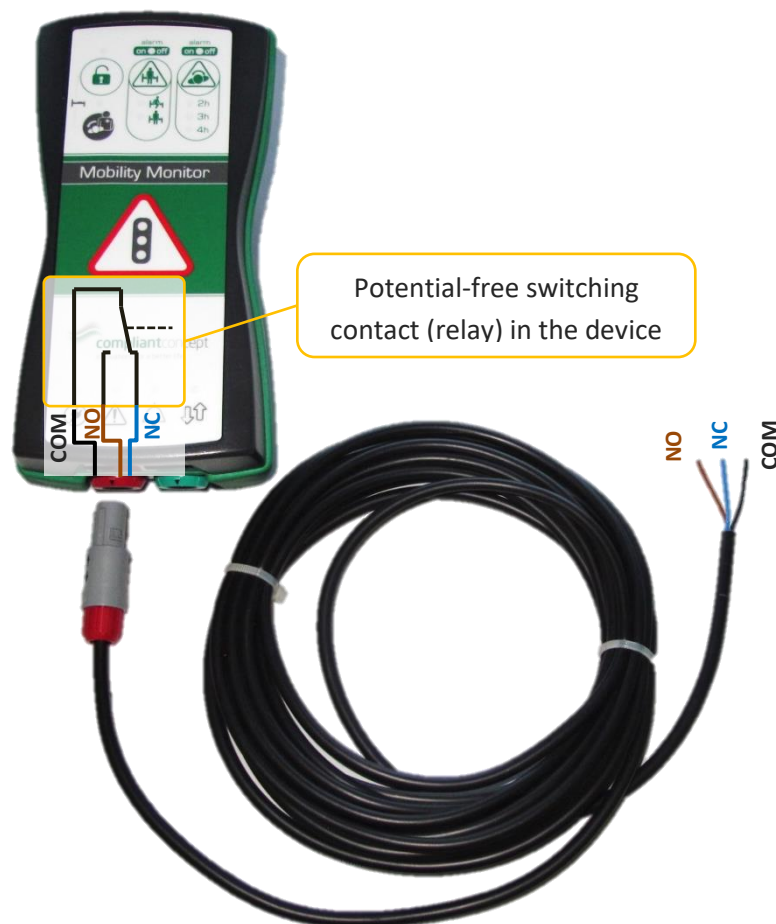


Figure 2: Schematic representation of the relay in the control unit

3. Connection Nurse Call System Connector

The individual contacts of the connector are associated with the cable wires as follows.

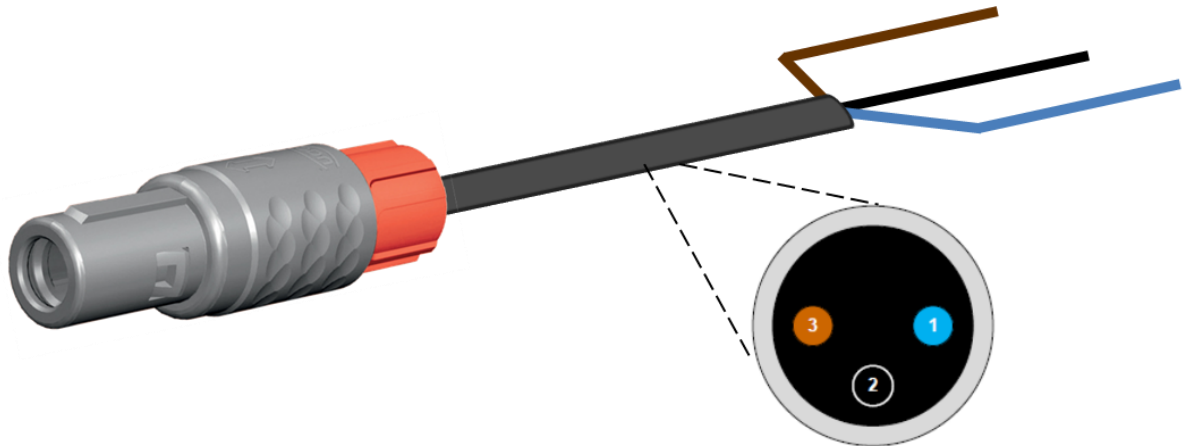


Figure 3: Pin configuration of the circular connector for connection to the nurse call

Pin	Color	Functionality
1	Blue	Normally closed (NC)
2	Black	Common Contact (COM)
3	Brown	Normally open (NO)

4. Electrical specification

Potential-free NC / NO contact

4.1. Maximum values which must not be exceeded

Voltage AC/DC	Maximum	50V
Continuous current	Maximum	100mA
Peak current	Maximum	200mA, 0.2s





Caution: If the maximum values are exceeded, the device is permanently damaged!

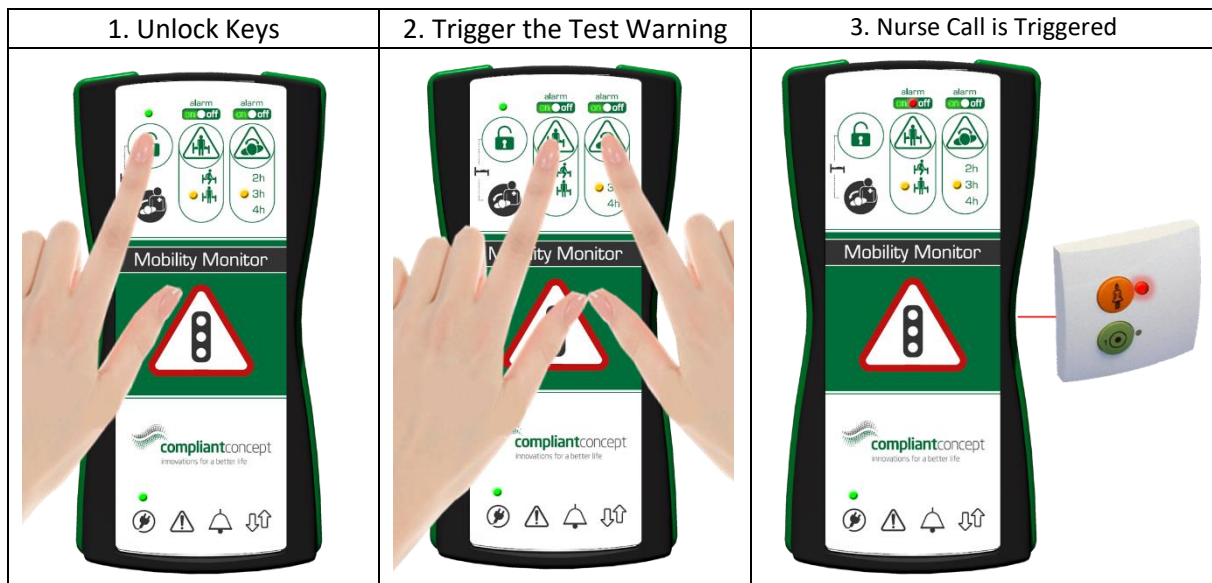
4.2. Other

Contact resistance	Typical	1.0 Ohm
	Maximum	2.5 Ohm

5. Testing of the Nurse Call System

The cable can be tested by triggering a test alert on the Mobility Monitor device. To do this, proceed as follows:

1. Connect Mobility Monitor via the newly assembled cable with the nurse call system.
2. Connect Mobility Monitor via the supplied AC adapter to the power supply.
3. Unlock the keys ()
4. Simultaneously press the "Bed Exit Alert" and "Mobility Alert" buttons ( + ) at the top right for at least 2 seconds
5. This triggers a test alert:
 - a. The Warning LED for the bed exit alert () flashes red
 - b. The relay (NC or NO) is energized and a nurse call should be triggered.



6. How to Reach Us

Questions regarding Mobility Monitor and Mobility & Care Manager? Our support team can be reached via phone or Email.

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Change History

Version	Release Date	Change	Prepared	Reviewed	Approved
2.0	09.2014	„MobilityMonitor_Anleitung_Lichtruf-Konfektion_2v0_DE“ translated to English	vre	men/zos	kst
2.1.0	04.2017	Electrical specifications added	jdo	Men	Men