TeleAlarm®
swiss design

ManDown Sensor

- **Easy to use and to trigger**
- **Automatic trigger via position sensor**
- **Mercury-free internal device**
- **Wireless communication to a NurseCall system**
- **Acoustical pre-alarm**

The ManDown Sensor has a built-in tilt device, which can detect if the person holding it is in a horizontal position, such as lying on the floor. The sensor will automatically send an alarm when its position corresponds to horizontality after a certain time. The ManDown Sensor can be held, for example, as a necklace by an elderly person or as a safety device by a lone worker in a hazardous environment. The ManDown Sensor is part of a wireless NurseCall system.

Functions

Detection
Detection by the ManDown Sensor can be decomposed into two periods of time.
1) Tilt Detection
When the sensor detects a tilt of more than 60 degrees, it will start its internal chronometer for approximately ten seconds. If the sensor comes back to a vertical position within these ten seconds, the chronometer is reset.
2) Pre-Alarm
If the sensor does not come back to a vertical position within ten seconds, a pre-alarm starts, accompanied by a beeping sound. This period of time is factory-set and lasts approximately thirty seconds. The pre-alarm is cancelled if the sensor comes back to a vertical position or if the help call button is pressed.

Help call button
Pressing the central red button of the ManDown Sensor will activate a help call at any time. During all help calls made by pressing the button, the sensor will always issue a beeping sound.

Optical indication by a LED indicator
The ManDown Sensor can be delivered with an operational frequency of 434 MHz. It is equipped with a LED indicator that will flash every ten seconds to show that the sensor is active. This LED indicator will flash green if the battery is ok or red if the battery is low. Pushing the central red button will send a help call to the NurseCall system, followed by a short beeping sound.

Pre-alarm and help call button deactivation
You can delete the pre-alarm or deactivate the central red button as help call button. In this case, during the automatic tilt alarm, the sensor remains silent.

Deactivation of the ManDown Sensor
You can turn off the sensor, even when the help call button is deactivated. In this case, a help call will be sent only after pressing the help call button for less than five seconds and releasing it.

Certifications and Approvals

EMC Directive: 2004/108/EC
Low Voltage Directive: 2006/95/EC
R&TTE: 1999/5/EC
EN 60950-1: 2011
EN 55022: 2006, A1: 2007
EN 300220-2 (V2.3.1)
EN 50130-4: 1995, A1: 1998, A2: 2003
EN 50371 (2002)
EN 301489-1 (V1.8.1)
EN 301489-3 (V1.4.1)

Parts Included

Quantity	Component
1	ManDown Sensor

Installation/Configuration Notes

Programming
To program a ManDown Sensor within a NurseCall system, follow the procedure described for the system you are using. As the ManDown Sensor can be considered as a standard transmitter, the system will recognize it during the programming step. Please refer to the manual of the corresponding NurseCall system.

Technical Specifications

Dimensions (H x W x D)	75mm x 40mm x 23mm
Weight	43 g
Frequency	434,01 MHz
Tilt sensor	Mercury-free type with activating at a 60° angle with vertical
Pre-alarm	10 seconds of detection, followed by 30 seconds of signal before automatic activation.
Type of plastic	ABS Cycolac GPM5500S white 25020 with fire classification UL 94 HB
Power supply	3V lithium battery CR1/2AA
Consumption	Stand-by mode: < 13 µA When deactivated : < 5 µA
Battery lifetime	from six months to two years, depending on operation and the number of detections performed
Battery alarm	at approx. 20 % remaining
Automatic battery test	daily check and at every alarm
Permissible temperature	-10 °C to 55 °C
Stability	< ± 2 kHz
Modulation	FSK
Antenna	Integrated loop
Radiated power	210 µW
Transmission time	2 x 1300 ms
Pause between transmissions	500 ms
Short term storage (less than two weeks)	Deactivate the sensor.
Long term storage (more than two weeks)	Remove the battery and store the ManDown Sensor protected fromndirect sunlight, moisture and dust.

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