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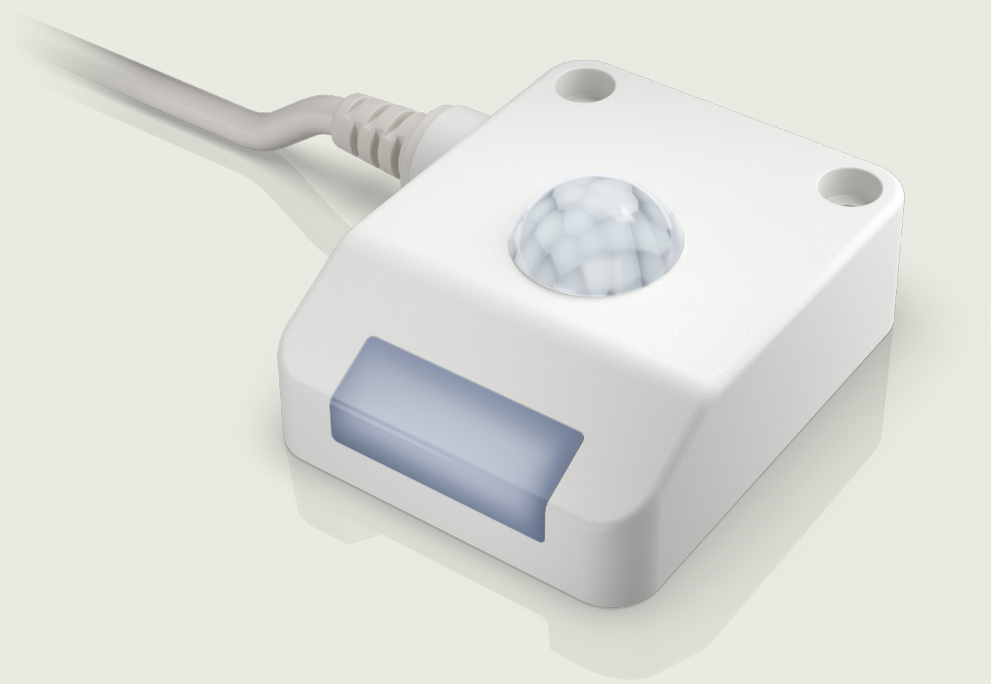
UBL4 Motion
Data Sheet



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Introduction

The Under Bed Light, UBL4 Motion, consists of a bed light with a sensor that activates when motion is detected. It is intended for use within primarily nursing homes and homecare and works with LINAK® analogue and OpenBus™ systems.

The guiding light automatically turns on when the patient leaves the bed and therefore helps prevent fall accidents in poorly lit rooms. The automatic light eases patient orientation and offers more comfort.

The UBL4 Motion offers the following advantages:

- Integrated Passive Infra-Red (PIR) sensor for automatic LED light by motion detection
- The UBL4 Motion is intelligent and will only activate when light is needed, i.e. in poorly lit rooms
- LED light dims after 10 seconds of inactivity.
- IPX4
- Easy installation on new and existing systems
- Works on both analogue and OpenBus systems

Features and options

Number of LEDs:	6 LEDs
Light intensity:	**Two fixed light intensities:** **Maximum:** 310 lux at 100% **Dimmed:** 141 lux at 44% (see functionality section)
PIR sensor:	110 degrees at a distance of 2 meters
Photodiode:	Daylight level sensitivity detector. Active when room light level is below 35 lux. Inactive when room light level is above 75 lux.
Current consumption on mains:	Vbus: 8 V < 1 mA Vperm: 40 V < 20 mA
Interface:	RJ45 modular plug
Colour:	Light grey, RAL 7035
Protection class:	IPX4
Cable lengths:	3 fixed: 500 mm, 1250 mm, 2500 mm
Cable type:	PVC
Flammability rating:	V0

Usage

Operation temperature:	+5 °C to +40 °C
Storage temperature:	-10 °C to +50 °C
Relative humidity:	20% to 80% – non-condensing
Atmospheric pressure:	700 to 1060 hPa
Meters above sea level:	Max. 3000 meters
Compatibility:	LINAK analogue and OpenBus™ control boxes
Approvals:	IEC 60601-1 ANSI/AAMI ES60601-1 CSA CAN/CSA-C22.2 NO. 60601-1

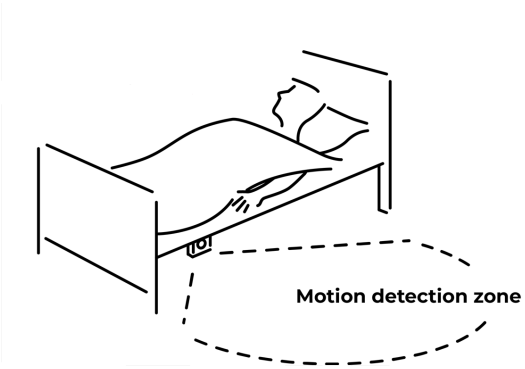
Functionality

The UBL4 Motion is equipped with an integrated PIR sensor for automatic light by motion detection. The UBL4 Motion also has a photodiode for daylight detection. The UBL4 Motion only turns on when the room is dark (room lux level below 35).

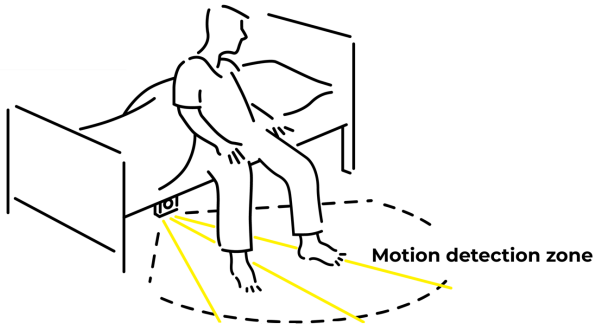
The functionality is the same on analogue and OpenBus systems.

Functionality visualisation

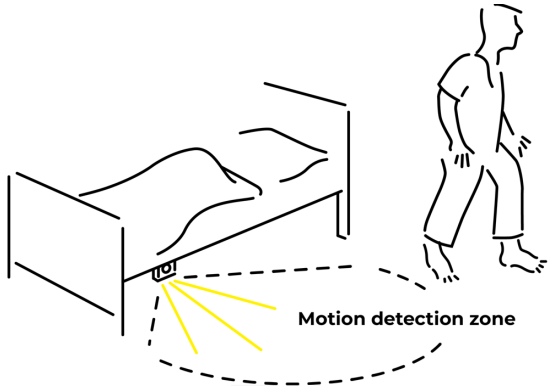
1. Patient is in bed



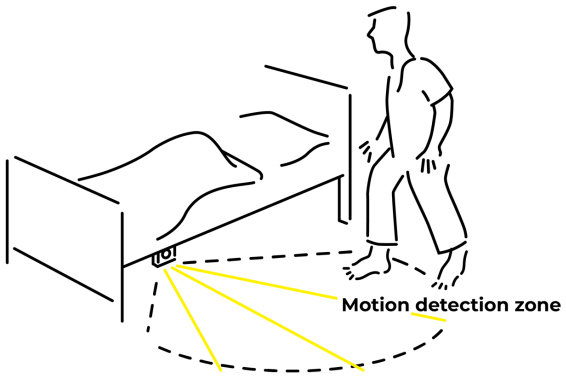
2. Patient is sitting up, thus activating the bed sensor



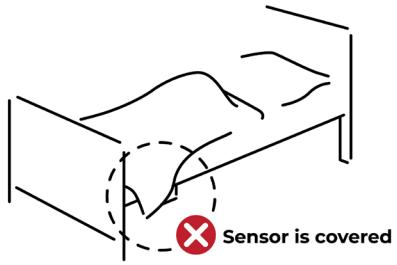
3. Patient walks away from the bed and exits the motion detection zone. After 10 seconds of inactivity, the guiding light dims.



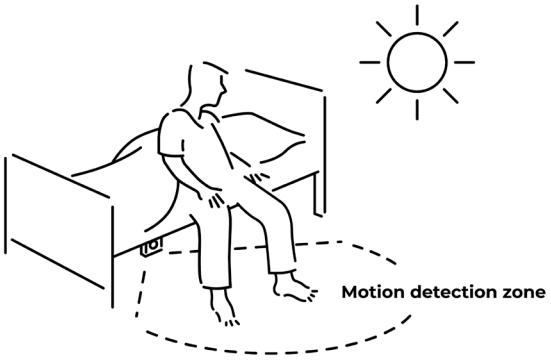
4. Patient returns to the bed, activates the bed sensor and guiding light is back on max intensity. When the patient enters the bed again, the guiding light will dim after 10 seconds and turn off after 10 minutes.



5. The sensor field of vision is obstructed, in this case by the bed sheets, and will not function.



6. The guiding light will only turn on in poorly lit rooms. (Guiding light will turn on when night threshold is below approximately 35 lux. The guiding light will not turn on when light is above approximately 75 lux.



Ordering example

	UBL	
Version	4M	**4M** = Version
Not used	0	**0** = None
Functionality	XX	**01** = UBL
Motion sensor	XX	**01** = Motion sensor
Light sensor mode	XX	**01** = Light sensor
Standard	XX	**00** = Standard
IP-degree	4	**4** = IPX4
	-	
Colour	2	**2 =** Grey (RAL7035)
Mounting	0	**0** = Screw
Cable type	1	**1** = Modular type PVC
Cable length	X	**1** = Cable length 500mm **2** = Cable length 1250mm **3** = Cable length 2500mm
Not used	0	**0** = None
Not used	0	**0** = None
Not used	0	**0** = None

Chosen item number: UBL4M0XXXXXXXX4-201X000

Approvals and certifications

For approval documentation, LINAK recommends specifying the product type instead of individual item numbers to ensure broader approval coverage and simplify future product changes.

Listed LINAK item for application approval: UBL4 Motion

If this is not possible, we advise being as non-specific as possible when specifying LINAK products in your approval application:

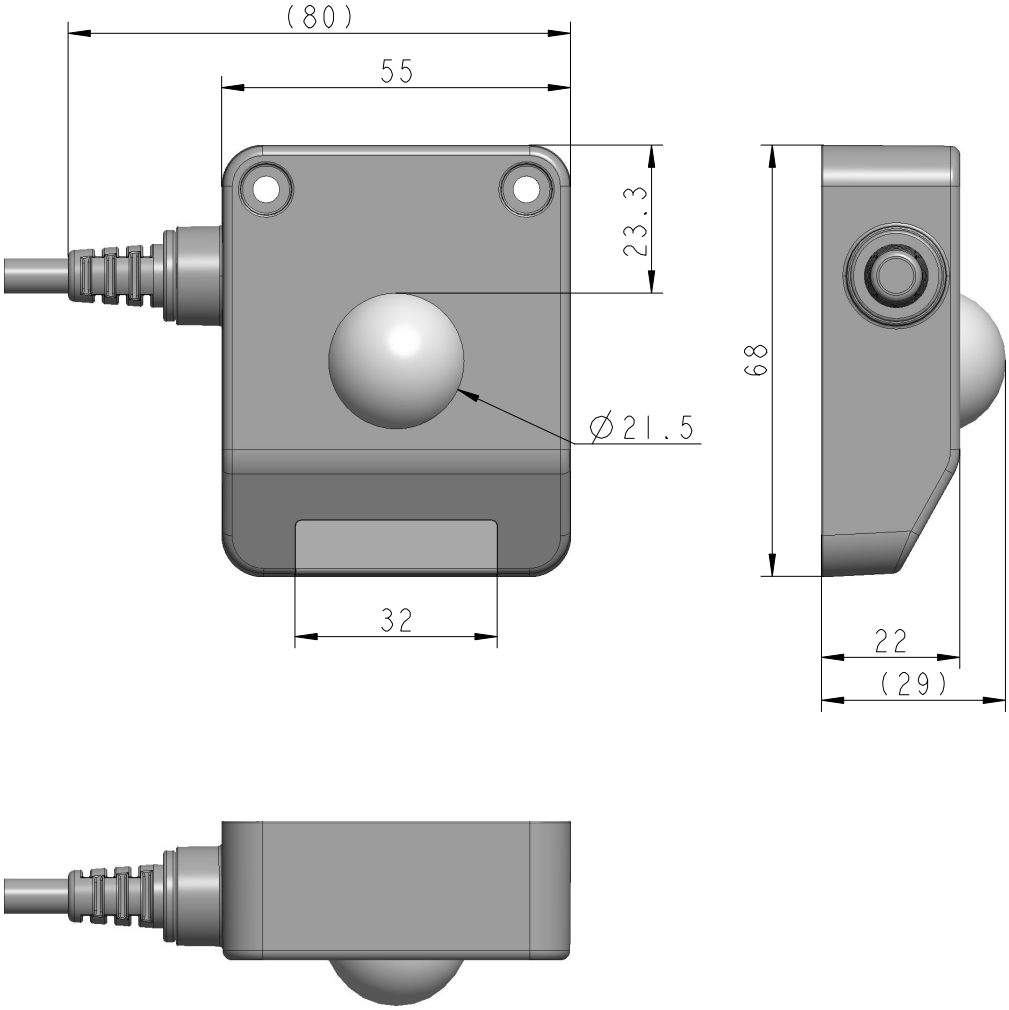
Listed LINAK item for application approval: UBL4MS********SS****SSS

" * " is not safety critical and we recommend including a non-specific signifier such as an asterisk.

" S " is safety critical and represents a listed critical component in the product and cannot be left out.

For more information, please refer to "Approvals and certifications" in LINAK Application Design Recommendations found under User Manual for any given product on LINAK.com

Dimensions



Drawing number: 1078W4001

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