



2

Motion detector 12 volt LBM 926, 120°

Operation

The motion detector operates using passive infrared technology. Via a PIR sensor, the detector notices any heat sources moving within its field of detection and switches on automatically. Static heat sources do not trigger it. The adjustable twilight switch lets you choose whether you have the motion detector working day and night or only when it is dark. The integrated timer also lets you adjust how long the light stays on.

Safety information



To be fitted by qualified electricians only, observing all standard national installation regulations. No work to be carried out while live. The circuit trip switch must therefore be switched off.

Check to make sure the connecting cable is not live!

All warranty claims will be null and void in the event of any damage or loss caused by failure to observe these operating instructions. We accept no liability for any consequential losses or damage. We accept no liability for any personal injury or material damage caused by improper use or by failure to observe the safety advice.

In such cases all warranty claims will be null and void. For reasons of safety and approval, no unauthorised conversion and/or modification of the appliance is allowed.

Where to install

The motion detector is at its most effective when approached diagonally. Motion detectors should therefore always be set up so that they are not directly approached.

Installation

The LBM motion detector can be mounted either on a wall or on a ceiling (fig. A). Unplug one of the pre-punched holes that is most suitable for the type of installation and the programmable range

(fig. B1 or fig. B2). Guide the cable and the thread of the detector head into the hole and secure using a washer and nut (fig. C). Guide the connecting cable through the rubber grommet (fig. D1) and mount the wall connection plate according to fig. D. The LBM motion detector has a floating relay for switching lights or other devices.



Check maximum loads!

Connection: Examples

Fig. E1 = Externally powered doorbell

Fig. E2 = Lights with the same voltage as the LBM motion detector. Connect the cable to the power supply line according to the circuit diagram (Fig. E) and place the detector on the wall connection plate (Fig. F). Switch the circuit protection back on.

Range test

Set the TIME controller to minimum, the LUX controller to "sun" and the METER controller to maximum (fig. G). If the detector is switched on via a separate switch, turn this on. A self-test is then initiated lasting approx. 15 seconds. The connected device will remain on throughout this time. When the device turns off, the range test will begin. The device will now switch on for approx. 5 seconds in response to any movement, regardless of the ambient lighting level. This time period is initiated by any movement from the front. This range test is designed to help you to determine the field of detection. The motion detector can be adjusted horizontally (fig. I) and vertically (fig. H). The METER controller also allows you to set the range. Once this has been adjusted successfully you will be able to make further settings.

Settings (fig. G)

LUX Twilight switch approx. 5 to 1000 lux

TIME Time setting for the ON period approx. 5 sec. - 15 min.

6

Recycling instructions

Used batteries must not be disposed of as unsorted household waste. Used batteries must be recycled and may be returned free-of-charge to the place of sale. Batteries

contain substances which are harmful to the environment and to human health and must therefore be disposed of correctly.

Troubleshooting – Practical tips

Problem	Cause	Remedy
Motion detector switches the light on too late	<ul style="list-style-type: none"> Detection range setting Movement from the front 	<ul style="list-style-type: none"> Adjust detection area by turning the sensor Mount higher
Motion detector fails to achieve maximum range	<ul style="list-style-type: none"> Motion detector is mounted too low Difference in temperature between heat source and surroundings is not big enough 	
Motion detector switches light on constantly or when not necessary	<ul style="list-style-type: none"> Constant warm movement: The field of detection encompasses areas that do not require monitoring, such as pathways, roads, trees and reflective water. Unexpected change in heat sources due to a storm, rain or fans. Influence of direct/indirect sunlight 	<ul style="list-style-type: none"> Re-align detector and, if necessary, change its location
Fails to react to vehicles	<ul style="list-style-type: none"> Vehicle has not warmed up Engine area is very well insulated 	

Technical data

Field of detection
Time adjustment
Range

Twilight switch
Switching capacity

120°
approx. 5 sec. - 15 min., infinitely variable
approx. 1 m to approx. 10 m depending on installation height and outside temperature
approx. 5 - 1000 lux, infinitely variable
floating relays 10 A, 12 V to 30 V =