

Bus motion/brightness sensor  
BBH65/12V DC



Temperature at mounting location:  
-20°C up to +50°C.  
Storage temperature: -25°C up to +70°C.  
Relative humidity:  
annual average value <75%.

Bus motion/brightness sensor for connection to the RS485 bus gateway BGW14. For single mounting or mounting into the E-design switching system. 84x84 mm, 27 mm high. Installation depth 33 mm. Only 0.1 watt standby loss.

For installation in 55 mm switch boxes. Data transmission and power supply take place over the 4-wire bus with a 12V DC switching power supply unit. Up to 16 BBH devices can be connected to the RSA/RSB terminals of the RS485 Bus Gateway BGW14. The permitted total line length is 1,000 m. The second 120Ω terminal resistor supplied with the BGW14 must also be connected to the RSA/RSB terminals of the remotest BBH device.

We recommend stainless-steel counter-sunk 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes. Set of 2 stainless-steel counter-sunk screws 2,9x25 mm and plugs 5x25 mm are enclosed.

A motion detection signal is immediately sent on the RS485 bus. The switch-off message is sent approx. 1 minute after the last motion is detected.

The sensor measures the brightness from 0 to 2000 lux and sends a message on the RS485 bus every 10 seconds when there is a change in brightness of min. 10 lux.

**Set BBH bus address:**

Remove the cover panel to set the bus address. You now have access to the

rotary switch. Set a different bus address for each of the maximum 16 BBH devices.

**Error messages:**

If several BBH devices have the same bus address, the LED under the cover panel flashes. If there is an interruption in bus communication, the LED under the cover panel lights up continuously.

The motion/brightness sensor can be taught in the actuators FSR14, F4SR14, FUD14, FSG14, FDG14, FHK14, F4HK14, FAE14, FTN14 and FZK14.

**Send teach-in telegram:**

In order to teach the bus motion/brightness sensor in an actuator prepared for teach-in, remove the cover panel. The LRN pushbutton is then accessible. Press it briefly.

**Data transmission:**

EEP A5-08-01

Teach-in telegram: 0x20080D85

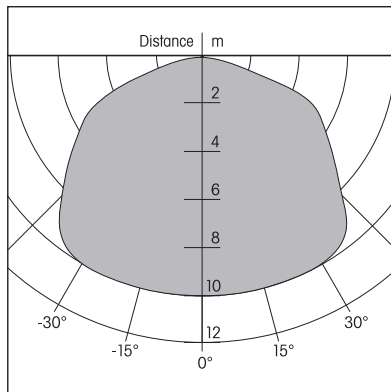
Data telegram:

Data\_byte0 = 0x0D = motion

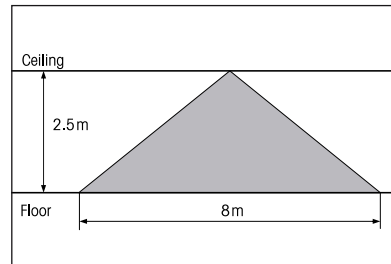
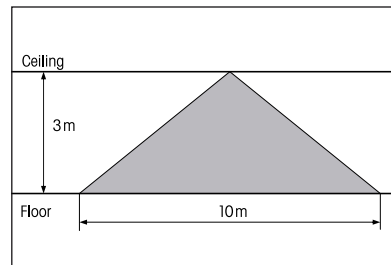
0x0F = no motion

Data\_byte2 = brightness 0x00 to 0xFF corresponds to 0 to 2048 lux

**Wall mounting**



**Ceiling mounting**



**Must be kept for later use!**

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