

Circular LED saturn motion sensor setting information

Doc no. 29-00026



Switch sensor HF 5BP

Switch sensor provides simple cost-effective motion detection in combination with the corridor function. When the sensor detects movement it triggers a predefined motion detection profile in the control gear. If the user-definable light value at the integrated light sensor is exceeded the control gear remains switched off.

Installation

- Not for use with phase cut dimmers
- Permanent installation only in luminaires
- The sensor must protrude over the light sources
- The power supply must be disconnected before installation
- Suitable for installation only in indoor luminaires
- Opening angle of the sensor: must be at least 45%

Setting up

Setting the threshold value

A threshold value can be set to prevent the lighting system from being switched on when there is already adequate illuminance. The threshold value indicates the illuminance value below which detected motion causes the lighting system to be switched on.

Note: To ensure the sensor switches on in conjunction with the corridor function you should set the threshold value as high as possible. If the threshold value is set to maximum the sensor will always switch on.



Value range	2 - 2000 lx; infinitely
Position +	Threshold value 2000 lx
Position -	Threshold value 2 lx

Setting the detection area

The detection area can be restricted to prevent the lighting system being switched on unnecessarily, as would be the case if the area were too large. The detection area indicates the diameter within which motion is detected.



Value range	Infinitely; depending on installation height
Position +	Maximum detection area
Position -	Minimum detection area

Setting the switch-off delay

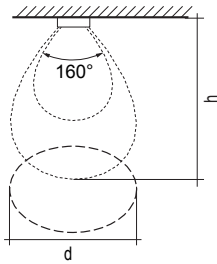
To prevent the lighting system being switched on and off unnecessarily you can set a switch-off delay. The delay starts after the last motion in the detection area. If a further motion is detected in the detection area during this delay then the delay is retriggered. At the end of the delay the corridor function is started.



Value range	30 s - 30 min; infinitely
Position +	30 min
Position -	30 s

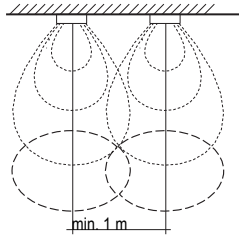
Motion detection

Diameter of the detection cone as a function of height at maximum detection area without taking objects in the room into consideration. Stationary objects (walls, tables, floor-standing luminaires, etc.) located in the direct view of the sensor change the characteristics of the detection area.



h	d
0.5 m	0.5 m
1.0 m	1.0 m
1.5 m	2.0 m
2.0 m	3.0 m
2.5 m	4.0 m
3.0 m	5.0 m
3.5 m	4.0 m
4.0 m	3.0 m
4.5 m	2.0 m
5.0 m	1.0 m

Minimum spacing for further sensors



Corridor function

The corridor function can be activated by applying a voltage of 230V for 5 minutes at the switchDIM connection of the control gear or via corridor function plug.

Note: To apply a voltage of 230V for 5 minutes at the switchDIM input of the control gear the sensor must detect motion for more than 5 minutes or a switch-off delay longer than 5 minutes must be set.

For further technical information, please visit www.tridonic.com

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