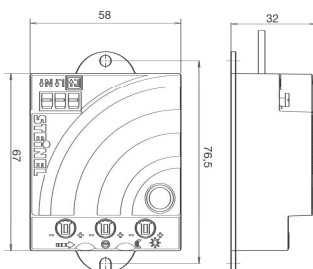
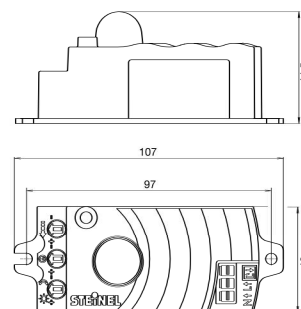


HF-LUM 1



HF-LUM 2



Principle

The HF-LUM 1 and HF-LUM 2 are active motion detectors and respond to the tiniest of movements – irrespective of temperature. The integrated HF-sensor emits high-frequency electromagnetic waves (5.8 GHz) and receives their echo. In response to the slightest movement in the detection zone, the change in echo is perceived by the sensor. A microprocessor subsequently triggers the switch ON command almost instantly. Detection is possible through doors, panes of glass or thin walls. Detection is not affected by electric conductors, metal or concrete. Light is only switched ON when brightness is set below the level of ambient light.

Installation advantages

- Screw-mounting tabs on enclosure for easy installation
- Connection at 3-core plug-in terminal
- Compact size

Installation advice

- For indoor use only
- The sensor must project beyond tubes
- The angle of aperture must reach at least 45 %
- Pay attention to luminaire materials (interference, reflections, attenuation)
- Connect loads in parallel
- Connected loads must not at any time exceed the specifications

Function settings

Twilight setting (response threshold)

The chosen sensor response threshold is infinitely adjustable from approx. 2 lux to 2000 lux.

Setting control turned fully clockwise selects daylight operation at approx. 2000 lux (factory setting). Setting control turned fully anti-clockwise selects night-time operation at approx. 2 lux.

When adjusting the detection zone and performing the walk test in daylight, the setting control must be turned fully clockwise.

Time setting (switch-OFF delay)

The chosen duration of illumination of the connected lamp is infinitely adjustable between approx. 30 sec. to a max. of 30 min. Setting control turned fully anti-clockwise selects the shortest time of approx. 30 sec. (factory setting). Setting control turned fully clockwise selects the longest time of approx. 30 min. The switch-off delay is re-started by any movement detected before this time elapses.

The shortest time setting is recommended when adjusting the detection zone and performing a functional test. Note: Every time the light switches OFF, it takes approx. 2 seconds for the sensor to start detecting movement again. The sensor is only able to detect movement again once this time has elapsed.

Reach setting (sensitivity)

The sensor's reach setting can be infinitely varied. Turning the setting control fully anti-clockwise selects minimum reach. Turning the setting control fully clockwise selects maximum reach. Reach may vary depending on room conditions.

Tube seasoning

Fluorescent tube manufacturers recommend seasoning, or burning in, various tubes for 100 hours so as not to restrict tube service life. To meet this recommendation, the following seasoning procedure should be carried out for new fluorescent tubes.

1. Connect luminaire and switch ON for a while.
2. Switch power supply ON/OFF twice (mains or light switch within 0.5 – 1 sec.)
- 2 a. Alternatively, you can start the seasoning process by using the potentiometers. Turn all 3 setting controls fully clockwise, then turn the middle setting control (time) fully anti-clockwise and fully clockwise again (within 10 sec.)
3. The seasoning process is confirmed by switching the light OFF and back ON again twice.
4. The light is now left ON for 100 hours without sensor function. Do not disconnect the light from the mains power supply during this period.
5. The luminaire automatically returns to sensor mode after 100 hours.

Note

When fluorescent tubes are new or at low ambient temperatures, the sensor may not switch the light OFF as it might be detecting gas moving inside the tubes. In this case, switch the light OFF and, for the time being, drastically reduce the reach setting.

Please only use high-quality brand-name tubes. Otherwise, we cannot guarantee that the high-precision sensor will operate reliably.

As attenuation and reflections can cause a high-frequency sensor to behave differently in any luminaire, we cannot accept any liability for the sensor to work as expected in the particular luminaire it is being used in. However, we are able to provide accreditation. Please contact our OEM sales manager. The customer must also guarantee and take responsibility for the way in which the other components behave in the luminaire (fluorescent tube, ballast etc.).