

L AFL WIRELESS PIR DETECTOR

L AFL is a wireless battery operated detector using 868.30 MHz frequency and FSK modulation. Totally two signals can be sent to the base station; occupancy and light level (L AFL-LX). Detected movement of the heat radiating object at the controlled area is immediately communicated to the FLTA base station. If no more detection appears during the next 4 minutes the "no detection" message will be sent. L AFL-LX is sending the light level information immediately as the change is more than +/- 5 lux. All detection informations and measured values will be updated at least once a half hour.

Each FLTA base station may have up to 99 transmitters in its operation area and up to 63 FLTA base stations may operate in the same wireless area. In theory totally 6237 transmitters may be used in a single area. The transmission area can be extended by using FLREP or FLREP-U repeaters (up to 8 pcs) between transmitters and the FLTA base station. Each wireless transmitter, repeater and base station needs to have a unique address. Each transmitter address consists of two parts; SID (sensor ID) and MID (master / base station ID). These addresses will be configured wireless by using FL SER service tool.

As the communication is bi-directional all the time, is also the transmitter aware of the function of the network. By the FLTA the transmitter is able to inform about the problems in the network and about the needed service. For example the transmitter is alarming when less than 5% of the battery capacity remains.

Function of the lamp during operation:
1 flash / 2 s battery - and network alarm
1 flash / 4 s battery alarm
1 flash / 8 s network alarm

FLTA base station receives the same information and transmits it forward to the monitoring system.

Battery life time at a normal office environment is about 3 years.



Technical data:

Supply	3V6 AA Lithium batt. 2Ah
Frequency	868.30 MHz Class1
Range	500m line in sight 20 ... 100m in buildings
Transmission power	+8 dBm
Reception sensitivity	-109 dBm
Modulation	FSK
Controlled area	140°, 18 beams, 4 levels 1,9...12 m 0..2000 lux
Light level range: L AFL-LX	
Accuracy of the light level	
Ambient:	
temperature	0 ...50°C
humidity	0...100 % RH (non-condensing)
Housing	IP40
Battery life	3 years

Tilausohje:

Model	Product number	Description
L AFL	1191120	wireless occupancy detector
L AFL-LX	1191121	wireless occupancy and light level detector
A04491	A04491	3V6 AA Lithium batt. 2Ah