



Since the publication of EU directive 2002/91/EC, resource efficient operation has been the focus of building technology and management. Starting with the publication of directive VDI 4707 by VDI The Association Of German Engineers in March 2009 it has become topical for lifts as well. Especially as regards existing lifts it is common nowadays to label them as energy wasters. An important amount of energy is wasted by the cabin illumination. LIGHTwatcher will enable you to have the cabin illumination simply switched off when not required. And that without any great installation effort, new wiring or adaptation to lift controls.

**Advantages at a glance:**

- Easy installation in the lighting branch-circuit
- Event-controlled light switch-off at a standstill
- Minimisation of standstill consumption according to VDI 4707
- Recognition of car and door movements by acceleration sensor system
- No need to mesh with the lift electronics
- Adjustable period of time to lapse after the latest travel until cabin lighting is switched off
- 3 inputs for optional sensors or control information
- 2 additional outputs for supplementary electric consumers

- Yes, I am interested in your product LIGHTwatcher
- I am also interested in your product:
  - LED Cabin Lighting
- Please contact us

Company \_\_\_\_\_

Contact Name \_\_\_\_\_

Address \_\_\_\_\_

City / Zip-Code \_\_\_\_\_

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# Upgrading Energy Efficiency

## LIGHTwatcher

- event-controlled cabin light switch-off at a standstill
- quick and easy installation in the lighting branch-circuit
- no communication with the lift control required



**LIGHTwatcher will help you save energy costs and even benefit the environment, fully in the sense of VDI 4707.**

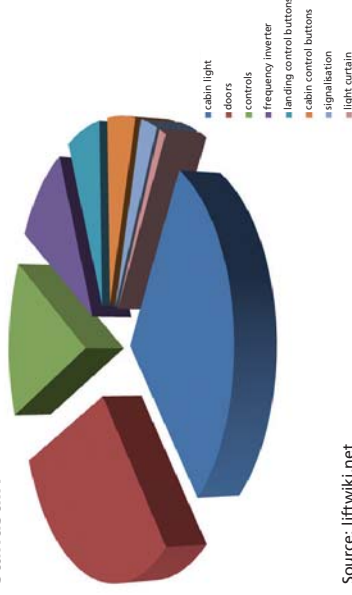


Especially existing lifts have scarcely been in the focus of energy efficiency ambitions. So their cabin illumination is on throughout.

More than 40% of the overall power consumption of lifts is wasted by stand-by functions.

One third of this energy is for cabin lighting.

### What shares in the energy consumption of a lift at a standstill?



Source: liftwiki.net

### Sample calculation:

Power consumption per year (cabin light-being on throughout)	required (travel consumption)		wasted (standstill consumption)	
	Power (kWh)	Cost	Power (kWh)	Cost
fluorescent lamps (typical: 78 W)	31	7,44 €	647	155,28 €
halogen lamps (typical: 150 W)	60	14,40 €	1245	298,80 €
LEDs (typical: 9 W)	4	0,96 €	75	18,00 €

(Energy price assumption: 0.24 €/kWh)

## LIGHTwatcher

### How it works

LIGHTwatcher is installed directly onto the car roof, where it can sense car movements by its three acceleration sensors. These sensors even recognize movements of the car door.

The cabin light is switched on each time a movement in the car is sensed. The switching threshold of the sensing of movements is to be adjusted directly at the LIGHTwatcher.

After the lapse of an adjustable time the light is switched off again, if no further car or door movements are sensed.

To install LIGHTwatcher, simply cut the lighting branch-circuit to place LIGHTwatcher in. Supplied with power by the lighting branch-circuit, it does not require any further wiring.

In addition to the cabin illumination, LIGHTwatcher can switch off another consumer. Moreover, it offers a third contact to switch on a consumer while in low power mode, like an emergency illumination for example.

For special applications, in addition to the acceleration sensors other ones shall also activate the cabin light, there are three potential-free inputs available.

## LIGHTwatcher



Technical Data	
power supply voltage	230 V AC
power consumption	2 VA
relays	3
max. switching voltage	250 V AC
max. peak current	15 A
max. rated current	10 A
max. rated load (resistive)	2500 VA
max. rated load (ind.)	500 VA
min. switching load	0,3 W
additional inputs	3
control voltage	12 V - 230 V AC/DC
dimensions (L x W x H)	106 x 90 x 58 mm
time period, adjustable	1 min to 10 min