


BUILTIN SENSORS/ TWILIGHT SWITCHES

 **Glossary**
see reverse side



- Infra-red
- Separate sensor
- Potential-free
- Radar
- Invisible installation
- 400 VA LED
- IP66 (built-in)
- 1-50 W LED
- Compact model
- Separate sensor
- 200 VA LED
- Separate sensor

BUILTIN SENSOR

BUILTIN TWILIGHT SWITCHES

Item number	870500	870880	820010	830060	830080
Type description	IB-PIR-100	IB-RAD-UNI	IB-06L	IBE-12/LI	IBE-15/LI
TECHNOLOGY					
Detector type	Motion detector	Presence detector	Twilight switches	Twilight switches	Twilight switches
Detection technique	Infra-red	Radar	✗	✗	✗
ASSEMBLY & CONNECTION					
Assembly	Built-in	Built-in	Built-in	Built-in	Built-in
Contact(s)	Potential-free contact	Closing contact	Relay closing contact	Triac closing contact	Relay closing contact
DETECTION					
Detection angle	360°	360°	✗	✗	✗
Optimal mounting height	2,5 m	2,5 m	✗	✗	✗
Detection range (m)	6 m	6 m	✗	✗	✗
Detection surface area	30 m ²	30 m ²	✗	✗	✗
Max. mounting height (m)	✗	5 m	✗	✗	✗
Detection range at max. height	✗	8 m	✗	✗	✗
Detection surface area at max. height	✗	50 m ²	✗	✗	✗
SWITCHING & LOAD					
LED Lighting	100 W	200 W	400 VA	1 - 50 W	200 VA
Max. number of LED fixtures	2	5	10	2	10
Ohmic load	1000 W (4.3A)	1000 W (4.3A)	1150 W (5A)	1 - 100 W (0.45A)	1000 W (4.3A)
Halogen lighting	150 VA	500 VA	1000 VA	100 VA	1000 VA
Energy-saving lights	100 VA	150 VA	400 VA	36 VA	200 VA
OTHER SPECIFICATIONS					
IP value	IP55 (build-in)	IP20	IP66 (build-in)	IP55 (build-in)	IP55 (build-in)
Lux setting	5 - 10.000 lux	5 - 10.000 lux	10 - 300 lux	10 - 300 lux	10 - 300 lux
Time setting	6 sec. - 20 min.	7 sec. - 30 min.	✗	✗	✗
Switching delay	✗	✗	60 sec.	60 sec.	60 sec.
DIMENSIONS					
Dimensions (l x b x h)	82 x 45 x 20,5 mm	90 x 51 x 31,5 mm	50 x 26 x 24 mm	55 x 32 x 15 mm	60 x 40 x 24 mm
Installation diameter sensor	22 mm	✗	16 mm	12 mm	12 mm
ACCESSORIES					
Separate sensor + cable	✗	✗	✗	830066	830067
Transparent nut	✗	✗	820100	✗	✗

The IB-PIR-100 is also available in a 42VAC version (870506).

SURFACE MOUNTED MOVEMENT DETECTORS

 **Glossary**
see below



- 8,5A
- Impact resistant
- Easy assembly
- 16A
- Impact resistant
- Easy assembly
- DCF tijdklok
- 7 programma's
- Potential-free

SURFACE MOUNTED TWILIGHT SWITCHES

Item number	840005	840010	840007
Type description	LIGHTGUARD	EUROSWITCH	LIGHTG/KL
TECHNOLOGY			
Detector type	Twilight switches	Twilight switches	Twilight switches
ASSEMBLY & CONNECTION			
Assembly	Surface mounted	Surface mounted	Surface mounted
Time clock	✗	✗	✓
Contact(s)	Closing contact	Closing contact	Closing contact
Contact	Relay	Relay	Relay
SWITCHING & LOAD			
Ohmic load	2000 W (8,5A)	3800 W (16A)	2000 W (8.5A)
LED Lighting	500 VA	2000 VA	500 VA
Max. number of LED fixtures	10	20	10
Halogen lighting	1200 VA	1500 VA	2000 VA
Energy-saving lights	300 VA	1000 VA	900 VA
OTHER SPECIFICATIONS			
IP value	IP55	IP55	IP54
Lux setting	5 - 20.000 lux	5 - 20.000 lux	5 - 500 lux
Switching delay	60 sec	60 sec	60 sec
DIMENSIONS			
Dimensions (l x b x h)	95 x 74 x 50 mm	95 x 74 x 50 mm	128 x 80 x 42 mm

The Euroswitch is also available in 12VAC, 12VDC, 24VAC, 110VAC and 130VAC versions.

 **Glossary**

Presence detector

More sensitive than a motion detector, also sees smaller movements.

Motion detector

Is less sensitive than a presence detector and mainly sees larger movements.

Daylight control

Lighting is switched and dimmed depending on the daylight level present in the space.

Extra relay (HVAC)

Second output with its own lag time (potential-free) often used for HVAC (Heating, Ventilation and Air Conditioning).

Infrared (PIR)

Detects heat differences, therefore responds well to the presence of people.

Closing contact (Relay)

Normally open contact that interconnects the input voltage with the output voltage, suitable for high power.

Closing contact (Triac)

Electronic switch; suitable for lower power. Switches silently.

Zero-crossing switch

Switches on at the zero point in the Sinus wave (the wave motion in AC voltage) to avoid high peak currents.

Potential-free contact

With a potential-free contact, voltages other than mains voltage (230VAC) are can also be switched.

Radar sensor

Detects by radio waves. These waves see through many materials and are temperature independent.

Twilight switch

Turns the power on when it gets dark and o when it gets light. Desired switching value (LUX) is adjustable.

VA (Volt Ampère)

Total available power for LED lighting is determined by VA multiplied by the Power Factor of the lighting. (e.g. 500VA x 0.9 (PF) = 450W max load).

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LIGHTING CONTROL SYSTEMS

Are you looking for lighting controls and could you use some advice with regard to your project?

Then please contact our consultants at info@klemko.com or **088-0023300**.

NEW

870478 Surface-mounted sensor OB-PIR-ECO-W



Type of detector	Presence detector	LED lighting	600 VA / 400 W
Type of detection	Infra-red	Max. switching capacity	2300 W (10A)
Detection angle	360°	IP value	IP55
Optimal mounting height	2,5 m	Max. number of secondary units	6 parallel
Detection range (m)	10 m	Lux setting	10 - 2.000 lux
Detection surface area	79 m ²	Time setting relay 1	30 sec. - 30 min.
Max. mounting height (m)	4 m	Outer diameter	111,7 mm
Detection range at max. height	14 m	Construction height	39,9 mm
Detection surface area at max. height	154 m ²	Remote control	870466
Zero-crossing switch	Yes		

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lumiko

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EN

SENSORS

 **Glossary**
see reverse side



CEILING RECESSED	CEILING RECESSED / SURFACE	DAYLIGHT CONTROL	WALL MOUNTED	WALL / CEILING SURFACE
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Item number white	870470	870551	870550	870580	870557	870560	870474	870464	870480	870460	870569	870620	870642	870540	870544	870543	870546	870050	870004	870060
Type description	PLF-IB-PIR-ECO-WH	PLF-IB-PIR/1U	PLF-IB-PIR	PLF-IB-PIR/80	PLF-IOB-PIR-UNI	PLF-OPB-PIR	PLF-OPB-UNI-9	HB-PIR-UNI 15M	PLF-INB-UNI-24M	PLF-IB-PIR-GANG	PLF-IB-PIR/Q	PLFUNI-PIR/30D2	PLF-IB-DALI-2K-12	IB-PIR-WAND	IB-PIR-W/LED	IB-PIR-W-55x55	IB-PIR-W/10MG	WATCHER-150	P300-DUO-PROF	PIR-HF-240 DUO
Item number black	870472						870476								870545			870048		
Type description	PLF-IB-PIR-ECO-ZW						PLF-OPB-UNI-9ZW								IB-PIR-W/LED-ZW			WATCHER-150ZW		

TECHNOLOGY																				
Type of detector	Presence detector	Presence detector	Presence detector	Presence detector	Presence detector	Presence detector	Presence detector	Presence detector	Presence detector	Motion detector	Presence detector	Presence detector	Presence detector	Motion detector	Motion detector	Motion detector	Motion detector	Motion detector	Motion detector	Motion detector
Type of detection	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red	Infra-red/radar

ASSEMBLY & CONNECTION																				
Distribution box installation	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗
Sensor connection on switch block	✗	3 aderig	RJ12	RJ11	✗	✗	✗	✗	✗	✗	RJ12	✗	✗	✗	✗	✗	✗	✗	✗	✗
Contact(s)	Closing contact	Potential-free contact	Closing contact Potential-free contact	Closing contact Potential-free contact	Closing contact	Closing contact Potential-free contact	Closing contact Potential-free contact	Closing contact	Closing contact Potential-free contact	Closing contact	Closing contact	Closing contact Potential-free contact	DALI broadcast	Closing contact (phase, neutral, switch)	Closing contact (phase, switch)	Closing contact (phase, neutral, switch)	Closing contact (phase, neutral, switch)	Potential-free contact	Potential-free contact	Potential-free contact

PLUGGABLE																				
With Wieland GST18 (WHITE / BLACK)	870935 / 870933	870942	870940	870944	On request	On request	On request	On request	870975	On request	870950	870965	On request	✗	✗	✗	✗	✗	✗	✗
With Wago Winsta flat	On request	870970	On request	870972	870974	On request	On request	On request	870976	On request	On request	On request	On request	✗	✗	✗	✗	✗	✗	✗
With Wago Winsta round	870936	870971	On request	On request	On request	On request	On request	On request	870977	On request	On request	On request	On request	✗	✗	✗	✗	✗	✗	✗

DETECTION																				
Detection angle	360°	360°	360°	360°	360°	360°	360°	360°	360°	2 x 120°	360°	360°	360°	180°	180°	180°	200°	180°	300°	240°
Optimal mounting height	2,5 m	2,5 m	2,5 m	2,5 m	2,5 m	2,5 m	2,5 m	15 m	2,5 m	2,5 m	2,5 m	2,5 m	2,5 m	1 m	1 m	1,2 m	1,2 m	2 m	2,5 m	2,5 m
Detection range (m)	7 m	6 m	7 m	10 m	7 m	7 m	9 m	20 m	24 m	40x5 m	8 m	30 m	12 m	8 m	8 m (7 m black)	8 m	8 m	12 m	16 m	16 m
Detection surface area	40 m²	30 m²	40 m²	80 m²	40 m²	40 m²	65 m²	320 m²	465 m²	200 m²	50 m²	700 m²	120 m²	-	-	-	-	120 m²	670 m²	530 m²
Max. mounting height (m)	4 m	5 m	5 m	5 m	5 m	5 m	4 m	15 m	2,5 m	3 m	5 m	3 m	4 m	1,5 m	1,5 m	1,5 m	2,2 m	5 m	5 m	5 m
Detection range at max. height	9 m	8 m	14,5 m	20 m	8 m	14,5 m	12 m	20 m	24 m	40x5 m	8 m	30 m	16 m	8 m	8 m (7 m black)	8 m	8 m	20 m	20 m	20 m
Detection surface area at max. height	64 m²	50 m²	165 m²	315 m²	50 m²	165 m²	113 m²	320 m²	465 m²	200 m²	50 m²	700 m²	200 m²	-	-	-	-	300 m²	900 m²	800 m²

SWITCHING & LOAD																				
Zero-crossing switch	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓
Max. number of LED fixtures	15	17	17	25	10	10	15	15	15	25	15	10	25	2	1	10	10	2	10	10
LED lighting	800 VA	1000 VA	800 VA	1000 VA	500 VA	500 VA	800 VA	800 VA	800 VA	800 VA	500 VA	500 VA	-	300 VA	100 VA	600 VA	500 VA	150 W	400 W	400 W
Max. switching capacity	2000 W (8.5A)	2300 W (10A)	2000 W (8.5A)	2300 W (10A)	2000 W (8.5A)	2000 W (8.5A)	2300 W (10A)	2000 W (8.5A)	2300 W (10A)	2300 W (10A)	2000 W (8.5A)	2300 W (10A)	-	1600 W (7A)	300 W (1.3A)	2000 W (8.5A)	2000 W (8.5A)	1000 W (4.3A)	2300 W (10A)	2300 W (10A)

OTHER SPECIFICATIONS																				
IP value	IP20	IP40	IP44 (sensor)	IP40	IP44 (surface)	IP44	IP54 (surface)	IP54	IP54 (surface)	IP20	IP20	IP44 (surface)	IP54	IP40	IP40	IP20	IP40	IP55	IP54	IP55
Max. number of secondary units	6 parallel	2 slave	5 slave	2 slave	2 parallel	6 parallel	6 parallel	10 parallel	6 parallel	6 parallel	5 slave	10 slave	-	2 parallel	2 parallel	6 parallel	10 parallel	2 parallel	2 parallel	2 parallel
Lux setting	10 - 2.000 lux	5 - 10.000 lux	10 - 10.000 lux	10 - 10.000 lux	5 - 2.000 lux	5 - 2.000 lux	10 - 2.000 lux	5 - 2.000 lux	10 - 2.000 lux	10 - 2.000 lux	10 - 2.000 lux	10 - 2.000 lux	10 - 2.000 lux	5 - 2.000 lux	5 - 2.000 lux	10 - 2.000 lux	5 - 2.000 lux	10 - 2.000 lux	10 - 2.000 lux	10 - 2.000 lux
Time setting relay 1	30 sec. - 30 min.	6 sec. - 30 min.	5 sec. - 30 min.	2 sec. - 60 min.	5 sec. - 30 min.	5 sec. - 30 min.	30 sec. - 30 min.	30 sec. - 60 min.	30 sec. - 30 min.	5 sec. - 30 min.	5 sec. - 30 min.	10 sec. - 30 min.	1 min. - 60 min.	5 sec. - 30 min.	5 sec. - 30 min.	30 sec. - 30 min.	20 sec. - 30 min.	5 sec. - 30 min.	5 sec. - 30 min.	5 sec. - 30 min.

DIMENSIONS																				
Switch block (LxWxH)	Integrated	111 x 53 x 30 mm	135 x 58 x 31 mm	150 x 58 x 34 mm	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	140 x 60 x 31,5 mm	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Installation diameter x height	63 x 65 mm	65 x 38 mm	65 x 38 mm	65 x 35 mm	65 x 35 mm	-	68 x 43,5 mm	68 x 43,5 mm	68 x 43,5 mm	68 x 43,5 mm	65 x 34 mm	62,5 x 47 mm	68 x 49 mm	55x55/50x50 x 32 mm	55x55/50x50 x 32 mm	55 x 55 x 31 mm	55x55/50x50 x 32 mm	119,5 x 73,5 x 87 mm	150 x 90 x 79 mm	150 x 90 x 79 mm
Outside diameter x height	80 x 5 mm	80 x 16 mm	80 x 16 mm	80 x 25 mm	111,5 x 24 mm	115 x 45 mm	105 x 23,5 mm	105 x 38 mm	105 x 44,5 mm	105 x 38 mm	80 x 19 mm	110 x 52 mm	80 x 18 mm	80 x 80 x 24 mm	80 x 80 x 24 mm	80 x 80 x 16 mm	80 x 80 x 24 mm	119,5 x 73,5 x 87 mm	150 x 90 x 79 mm	150 x 90 x 79 mm
Mounting height	✗	✗	✗	✗	59 mm	45 mm	48 mm	62,5 mm	79 mm	62,5 mm	✗	75 mm	✗	✗	✗	✗	✗	✗	✗	✗

ACCESSORIES																				
Slave sensor		870575	870555	870585							870571	870624								
Sensor splitter			870589	870589							870589									
5-metre extension cable 2x RJ12			871600	871600																
10-metre extension cable 2x RJ12			871605	871605																
Coupling piece 2x RJ12			183332	183332																
Remote control (on/off)			870590	870590		870590														
Remote control (setting)			870588	870588		870588	870466	870466	870466	870466	870625	870625	870644						870588	

The IB-PIR-W/10MG is also available in cream RAL 1013 (870547).
The Watcher-150 is also available in cream RAL 1013 11-32VDC version (870052).