

TIMERS
MOTION SENSORS
LIGHTING CONTROLLERS



IR23A-Klasik



IR25A-Klasik



We are the Czech manufacturing company, established in 1992 in Kuřim. Since the beginning we have focused more on development and sale of household consumer electronics.

The first product of the company was a contactless regulator of lighting, however the most successful product ever was a wireless doorbell.

With a gradual growth of production, demands for working space were increasing. In 2002, the company made a decision to invest in construction of its new object that would meet the actual demands. The construction was finished in autumn 2005.

By putting these new production areas into operation, the company ensured suitable conditions for high-quality, reliable and safe production meeting the current strict legislation. Thus, customers can be pleased with further expansion of the firm's production program.

Our motto is: "Reliable and quality household products at interesting sale prices."

Our main customers are mainly supermarkets and wholesale networks with wiring material.

All products in this catalogue are designed and made in our company in Czech Republic.

Production is performed with the modern automatic machines.



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Timers



CS3-1
CS3-1B



CS3-2



CS3-4
CS3-4B
CS3-4M



CS3-16

Light controllers



DR4-LED-S
DR4-LED-IR

Humidity sensor



CV701

Wall-mounted motion sensors



CN11, CN12
CN15



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IR16 Profi

Ceiling motion sensors



IR24A Klassik



IR28B-Klassik



IR28B Profi
IR28B Plus Profi
IR28B W link

Universal motion sensors



IR22A-Klassik



IR22B-Klassik



IR30

Smoke detector



LM102-D



LM-107A

Pool-Alarm



EBLO-073

Air Quality Sensor

SN110

SN120



comming soon

Humidity-Sensor

SN130



CS3-16

Order No. - 0137

16A



Multifunctional relay timer

Description:

- Timer CS3-16 is a multifunction relay with the possibility of setting eight functions and mounting under the control (switch) in the installation box type
- The switching element is a 16 A power relay, which allows control of larger loads.

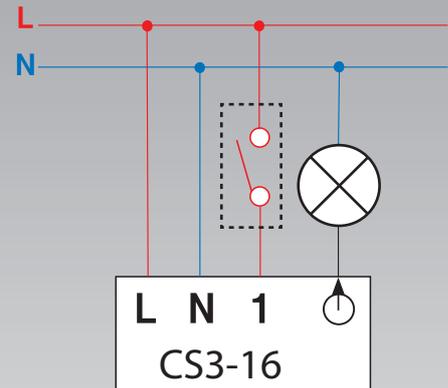
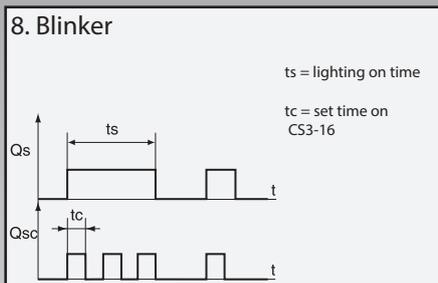
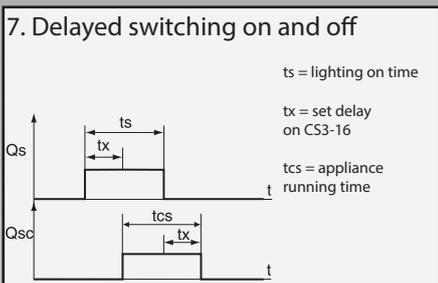
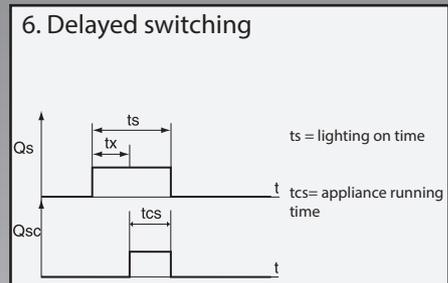
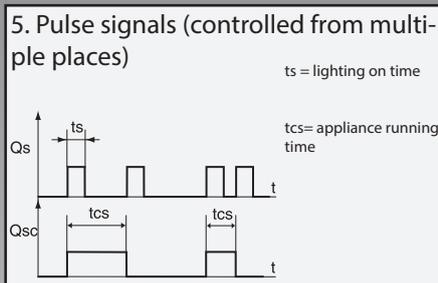
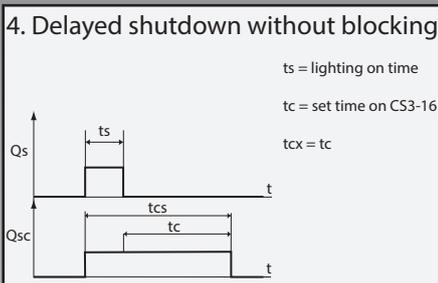
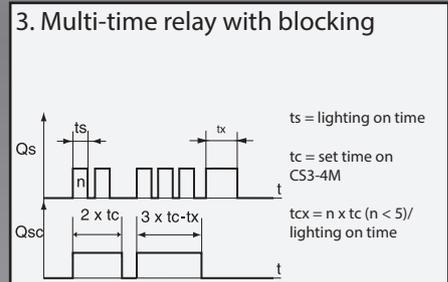
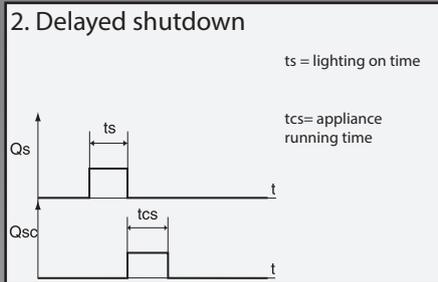
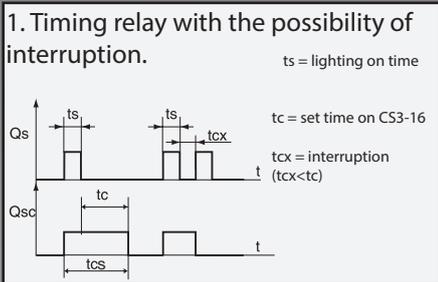
Technical specification:

Power supply	230 V / 50 Hz
Imax	16 A
bulb	2000 W
fluorescent bulb	750 W
energy saving light bulb bulb	500 W
Short-armature motor	900 W
Cross section of installation Cu conductors	0,5 mm ²
Covering level	IP20
Working temperature	0 up to 35 °C

CS3-16



Function CS3-16:



CS3 are designed for switching smaller outputs in a wide time range with mounting under the control element (switch).



CS3-1

CS3-1

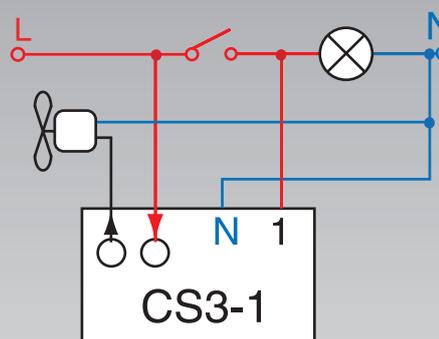
Order No. - 0131

Description:

- For switching fans.
- S3-1 is designed for delayed switching on and off of inductive (fans) and ohmic (bulbs) load. The load is switched on immediately after switching off the light for a set time of 0.1 s - 90 min.
- Suitable for switching suction to the toilet, when the fan turns on after leaving the room, depending on the lighting off.



Scheme of connection:



Technical specification:

Power supply	230 V / 50 Hz
Switching element	triac
Resistive load	5 - 150 W
Inductive load	5 - 50 VA
Adjustable time	1 s to 90 min
Protection	IP 20 and higher depending on installation
Operating temperature	0 up to 50 °C

CS3-1B

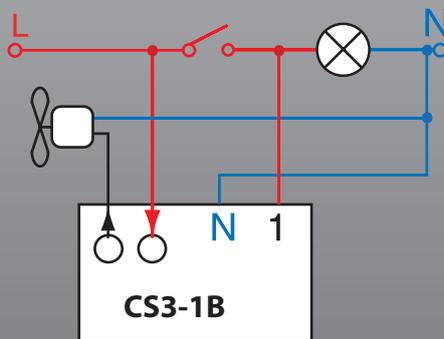
Order No. - 0133



Description:

- For switching fans with the option of setting the delay on and off the device.
- The fan starts 1s to 5 minutes after the lighting is switched on.
- The advantage of this function is energy saving.
- The suction is switched on if we are in the particular room longer than the set delay time.

Scheme of connection:



Technical specification:

Power supply	230 V / 50 Hz
Switching element	triac
Resistive load	5 - 150 W
Inductive load	5 - 50 VA
Adjustable time	1 s to 90 min
Protection	IP 20 and higher depending on installation
Working temperature	0 up to 50 °C

CS3-2

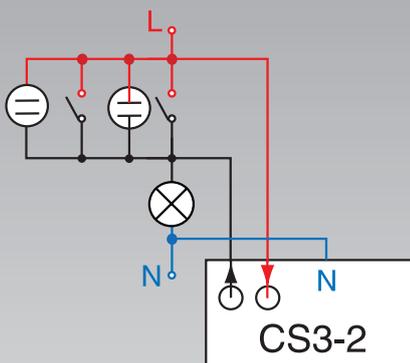
Order No - 0132



Description:

- As staircase machine with blocking.
- CS3-2 is intended for delayed switching off of appliances.
- It is suitable for controlling the ohmic load (bulbs).
- The appliance is switched on when the control button contacts are closed.
- The actual subtraction of the time occurs only after opening these contacts.
- Signaling neon lamp can be connected to the switch button contacts.

Scheme of connection:



Technical specification:

Power supply	230 V / 50 Hz
Switching element	triac
Resistive load	20 - 250 W
Inductive load	0 VA
Adjustable time	1 s to 90 min
Protection	IP 20 and higher depending on assembly
Operating temperature	0 to 50 °C

CS3-4

Order No. - 0134

Description:

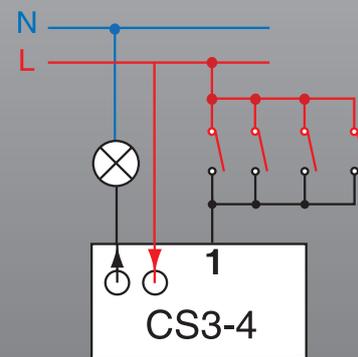
- For switching resistive and inductive loads.
- In connection WITHOUT ZERO CONDUCTOR.
- Turns on immediately when you press the button, but the timing itself will only start after the button is disconnected.

Technical specification:	
Power supply	230 V / 50 Hz
Switching element	triac
Resistive load	5 - 150 W
Inductive load (ventilator)	5 - 50 VA
Adjustable time	1 s to 20 h.
Fuse	tubular type F2A / 1500 A, 250 V
Protection	IP 20 and higher depending on assembly



CS3

Scheme of connection:



CS3-4B

Order No. - 0136

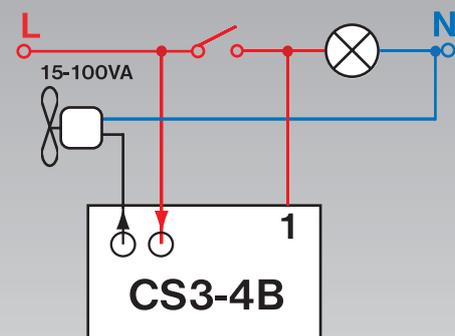
Description:

- For switching fans with the possibility of setting the delay of switching on and off the appliance.
- In connection WITHOUT ZERO CONDUCTOR.
- The fan starts 30 seconds to 10 minutes after switching on the lighting.
- The fan is disconnected in 1s to 10 hours. after switching off the lighting.
- The advantage of this function is energy saving.
- The suction is switched on if we are in the room longer than the set delay time.

Technical specification:	
Power supply	230 V / 50 Hz
Switching element	triac
Resistive load	5 - 150 W
Inductive load (ventilator)	5 - 50 VA
Adjustable time	1 s to 20 h.
Fuse	tubular type F2A / 1500 A, 250 V
Protection	IP 20 and higher depending on assembly



Scheme of connection:





Description:

- For controlling resistive (bulbs) and inductive load (fans).
- In connection WITHOUT ZERO CONDUCTOR.
- 8 selectable functions.

Technical specification:

Power supply	230 V / 50 Hz
Switching element	triac
Resistive load	5 - 150 W
Inductive load (ventilator)	5 - 50 VA
Adjustable time	1 s to 20 h.
Fuse	tubular type F2A / 1500 A, 250 V
Protection	IP 20 and higher depending on assembly

Function CS3-16:

1. Timing relay with the possibility of interruption.

t_s = lighting on time
 t_c = set time on CS3-4M
 t_{cx} = interruption ($t_{cx} < t_c$)

2. Delayed shutdown (analogy of CS3-1)

t_s = lighting on time
 t_{cs} = appliance running time

3. Multi-time relay with blocking

t_s = lighting on time
 t_c = set time on CS3-4M
 $t_{cx} = n \times t_c$ ($n < 5$) / lighting on time

4. Timer relay without possibility of interruption

t_s = lighting on time
 t_c = set time on CS3-4M
 $t_{cx} = t_c$

5. Pulse signals (controlled from multiple places)

t_s = lighting on time
 t_{cs} = appliance running time

6. Delayed switching

t_s = lighting on time
 t_{cs} = appliance running time

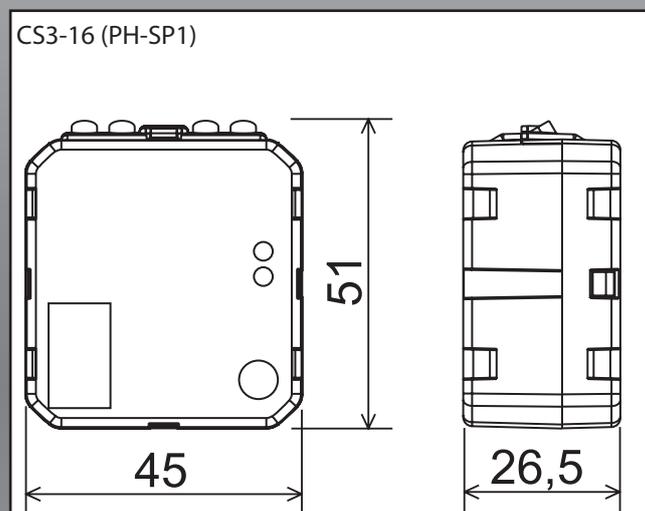
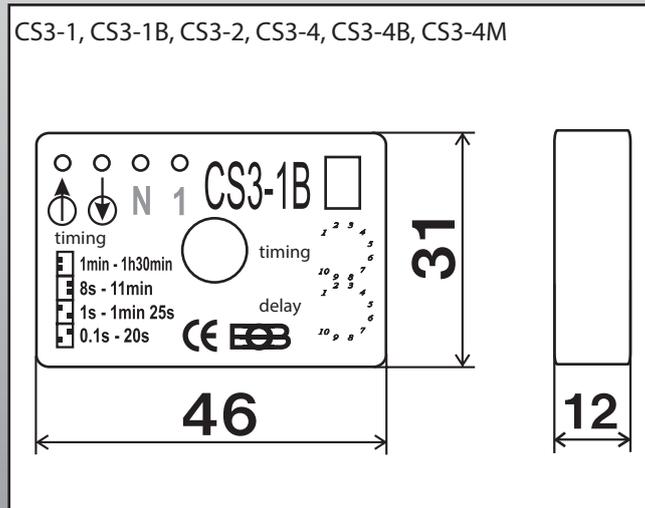
7. Delayed switching on and off

t_s = lighting on time
 t_x = set delay CS3-4M
 t_{cs} = appliance running time

8. Blinker

t_s = lighting on time
 t_c = set time on CS3-4M

1
CS3-4M



Comparison table of all types of timers

Device type	CS3-1	CS3-1B	CS3-2	CS3-4	CS3-4B	CS3-4M	CS3-16
Power supply	230 V / 50 Hz						
Switching element	triac	triac	triac	triac	triac	triac	relay
Resistive load	5 - 150 W	5 - 150 W	20-250 W	5 - 150 W	5 - 150 W	5 - 150 W	max. 16 A
Inductive load	5 - 50 VA	5 - 50 VA	-	5 - 50 VA	5 - 50 VA	5 - 50 VA	max. 2 A
Adjustable time	1 s - 90 min.	1 s - 90 min.	1 s - 90 min.	1 s - 20 h.			

Table of all types of devices and loads

Type device	Name	Type of loads	Type device	Name	Type of loads
	Bulb	Resistive		Contactor	Induction
	Heater	Resistive		Energy saving light bulb	Capacitance-inductive
	Discharge lamp	Induction		Classic transformer	Induction
	Fluorescent lamp	Induction		Electronical transformer	Capacitance-inductive
	Ventilator	Induction		Electric motor	Induction

DR4-LED are controllers designated for continuous regulation of LEDs and energy saving lamps to 230 V AC.

DR4

DR4-LED-S

Order No. - 2551

Control by pressing

DR4-LED-IR

Order No. - 2561

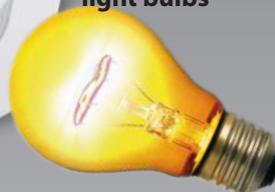
Controlled by TV remote control or push button. The controller is able to learn codes from the remote control.



LED dimmable light bulbs



classic light bulbs



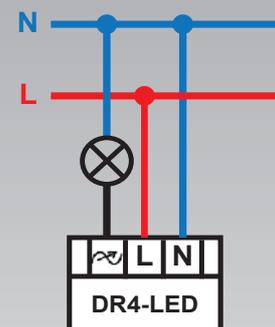
economically dimmable light bulbs



Technical specification

Power supply	230 V / 50 Hz
Resistive load	2 to 100 W
LED bulbs	2 to 100 W
Energy saving light bulbs	2 to 100 W
Power input	< 1 W
Tube fuse	F2A / 1500 A, 250 V
Wire cross-section	max. 2,5 mm ²
Operating temperature	0 up 40 °C
Cover	IP20

Scheme of connection



CV701

Order No. 0071

Description:

- Prevention of damage caused by condensation of water vapor.
- Protection against mold, evacuated air and moisture.
- Saves investment (unnecessary ventilation increases costs for heating).

Function:

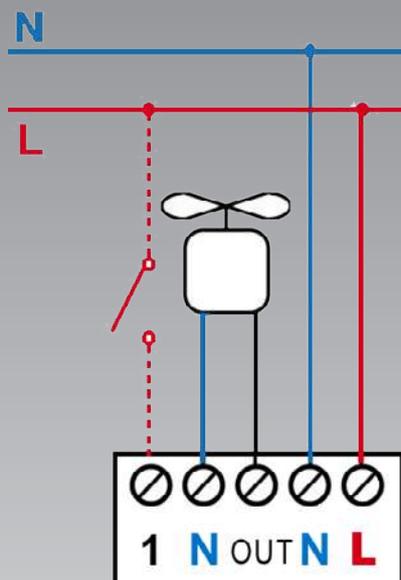
- The main function of CV701 is to control the ventilator with respect to the relative humidity (RH) in the room (RH is the percentage of water vapor content in the air at a given temperature, as opposed to air saturated with water vapor at the same temperature).
- High RH can cause condensation of water vapor and cause mold.
- Mould damages not only property but can also seriously endanger human health (allergies, asthma).



CV701



Scheme of connection:



Technical specification

Power supply	230 V / 50 Hz
Switching element	triac
Max switching power	15 - 200 W
Measured relative humidity	20 to 95 % RH
Tube fuse	F2 A / 1500 A, 250 V
Working temperature	0 to 50 °C
Protection	IP 20

CN11 - mini

Order No. - 0505



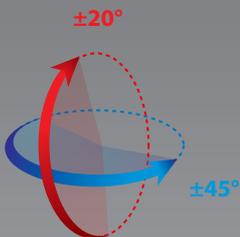
Description:

- It is a miniaturized wall-mounted PIR sensor, designed to switch lighting both indoors and outdoors.
- For rooms with less switching, such as family houses and apartments.

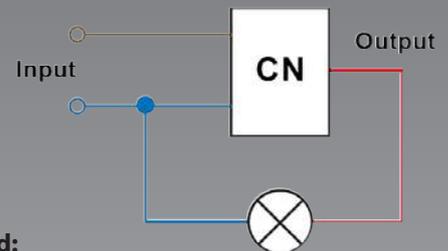
Controls:



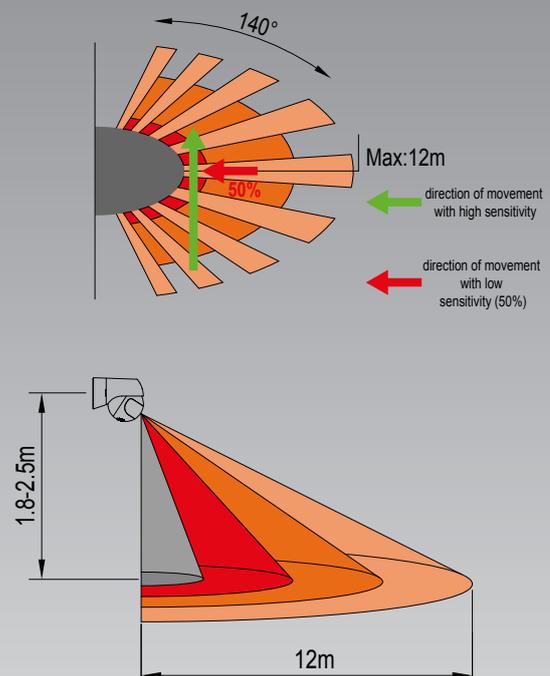
Mechanical sensor routing:



Scheme of connection:



Detection field:



Technical specification

Power supply	230 V / 50 HZ
I _{max}	4 A
bulb	800 W
halogen	100 VA
induction transformer	100 VA
fluorescent lamp uncompensated	max. 200 W
fluorescent lamp compensated	max. 2 x 58 W, C ≤ 8 μF
energy saving light bulb	max. 2 pcs.
LED bulbs	max. 80 W or 2 pcs.
Consumption	cca 0,5 W
Detection range (<24 ° C)	max. 12 m
Detection angle	140°
Detected movement speed	0.6~1.5m/s (cca 4km/h) – regular walk
Switching time	10 s up to 15 min (adjustable)
Installation height	1,8 up to 2,5 m
Sensitivity to light	< 3 up to 2000 Lux (adjustable)
Protection	IP44
Working temperature	-20 up to 40 °C

CN12

Order No. - 0506

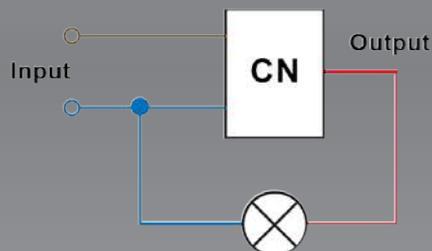
Description:

- PIR motion sensor in a new design for interior and exteriors.

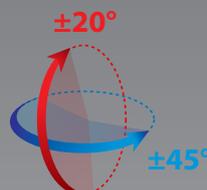
Controls:



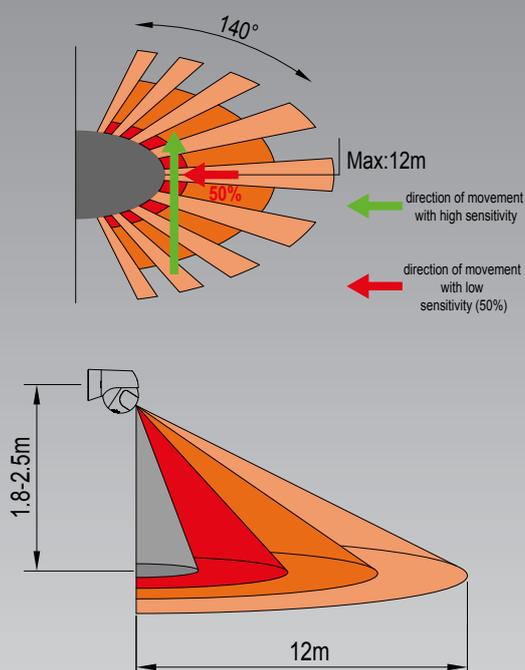
Scheme of connection:



Mechanical sensor routing:



Detection field:



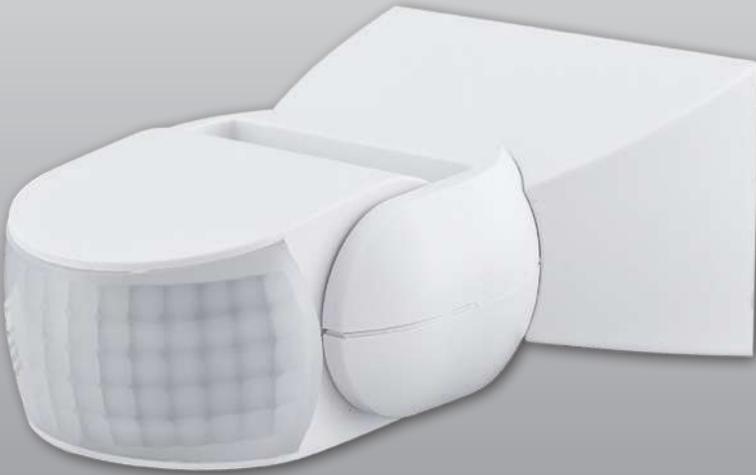
Technical specification	
Power supply	230 V / 50 HZ
I _{max}	6 A
bulb	1200 W
halogen	150 VA
induction transformer	150 VA
Fluorescent lamp uncompensated	max. 300 W
Fluorescent lamp compensated	max. 4 x 58 W, C ≤ 8 μF
energy saving light bulb	max. 3 pcs.
LED bulbs	max. 100 W or 3 pcs.
Consumption	cca 0,5 W
Detection range (<24 °C)	max. 12 m
Detection angle	140°
Detected movement speed	0.6~1.5m/s (cca 4km/h) – regular walk
Switching time	10 s up to 12 min (adjustable)
Installation height	1,8 to 2,5 m
Sensitivity to light	< 3 up to 2000 Lux (adjustable)
Protection	IP44
Working temperature	-20 up to 40 °C

CN12

CN15

Order No - 0507

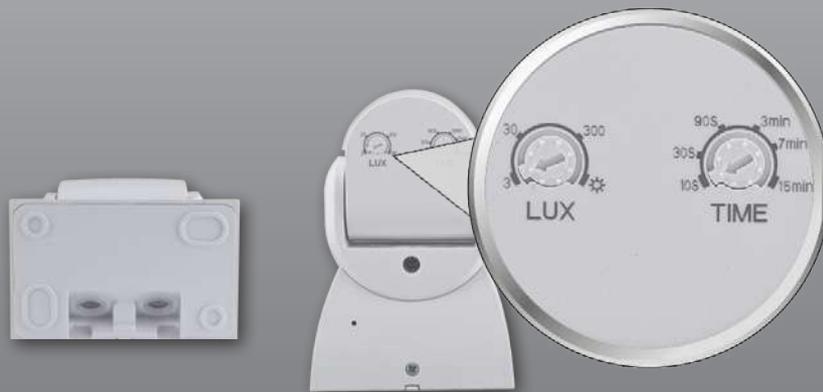
CN15



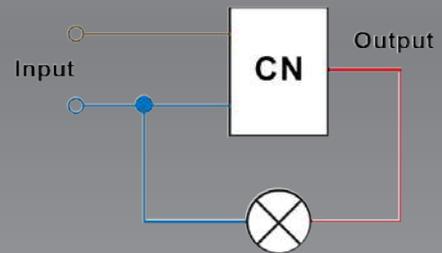
Description:

- PIR motion sensor in a new modern design.
- P65 destines the use of both indoors and outdoors where it resists splashing from all sides.
- The swivel head allows adjustment in all positions.

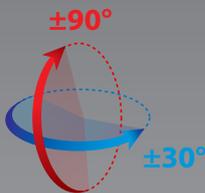
Controls:



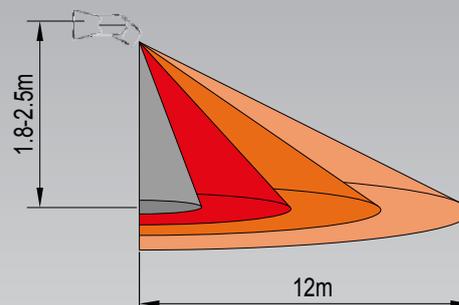
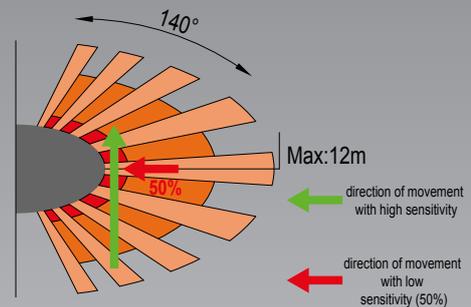
Scheme of connection:



Mechanical sensor routing:



Detection field:



Technical specification

Power supply	230 V / 50 HZ
I _{max}	6 A
bulb	1200 W
halogen	150 VA
induction transformer	150 VA
fluorescent lamp uncompensated	max. 300 W
Fluorescent lamp compensated	max. 4 x 58 W, C ≤ 8 μF
energy saving light bulb	max. 3 pcs.
LED bulbs	max. 100 W or 3 pcs.
Consumption	cca 0,5 W
Detection range (<24 °C)	max. 12 m
Detection angle	140°
Detected movement speed	0.6~1.5m/s (cca 4km/h) – regular walk
Switching time	10 s up to 12 min (adjustable)
Installation height	1,8 to 2,5 m
Sensitivity to light	< 3 up to 2000 Lux (adjustable)
Protection	IP44
Working temperature	-20 up to 40 °C

IR23A-Klasik

Order No.. - 0924

Description:

- The IR23A-Klasik infrared wall-mounted motion sensor is suitable for switching most electrical appliances, especially lighting in living areas, e.g. in corridors, living rooms etc.
- Due to the use of a power switching element (relay 16A), you can control e.g. electric heater, which then heats only when someone is moving in the room.

Controls:



LED



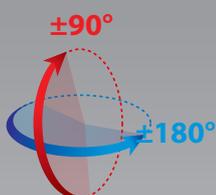
16A*



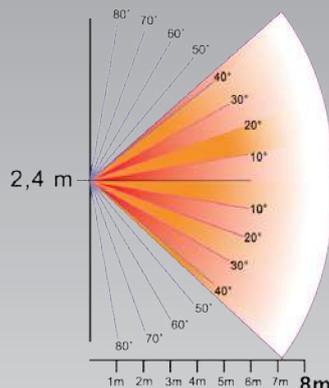
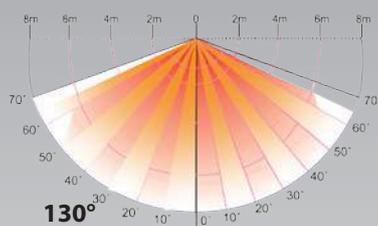
IR23A Klasik



Mechanical sensor routing:



Detection field:



Technical specification

Power supply	230 V AC
Consumption	< 1 W
Light intensity adjustment range	10 - 2000 Lux
Switching power	16 A
Scanning angle	130°
Deceleration time (light)	5s - 10 min.
Working temperature	-20 up to 40 °C
Protection	IP54
Extended Warranty	3 years

Contact specification

Type of contacts	NO
Mechanical lifetime	1 000 000 switching
Electrical lifetime	100 000 switching / 12 A
Electrical lifetime	50 000 switching / 16 A
Max. start-up current I _p (20 ms)	I _p (< 20ms) < 100 A

Load capacity of contacts

Resistive load	permanently up to 16 A
Cos φ = 1	3680 W
Cos φ = 0,5	1990 VA*
LED bulb	max. 10 pcs.*

* the total inrush current must not exceed 100 A for less than 20 ms.

IR25A-Klasik

Order No. - 0925



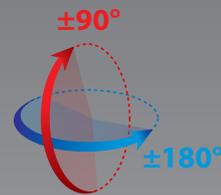
Description:

- The IR25A-Klasik infrared wall-mounted motion sensor is suitable for switching most electrical appliances, especially lighting in living areas, e.g. in corridors, living rooms, etc.
- Due to the use of a power switching element (relay 16A), you can control e.g. electric heater, which then heats only when someone is moving in the room.

Controls:



Mechanical sensor routing:



Technical specification

Power supply	230 V AC
Consumption	< 1 W
Light intensity adjustment range	10 - 2000 Lux
Switching power	16 A
Scanning angle	140°
Deceleration time (light)	5s - 10 min.
Working temperature	-20 up to 40 °C
Protection	IP54
Extended Warranty	3 years

Contact specification

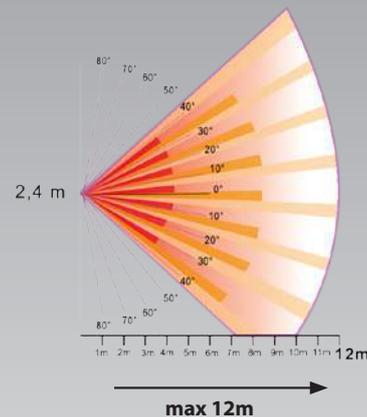
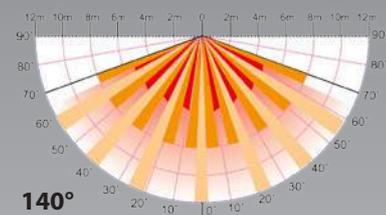
Type of contacts	NO
Mechanical lifetime	1 000 000 switching
Electrical lifetime	100 000 switching / 12 A
Electrical lifetime	50 000 switching / 16A
Max. start-up current I _p (20 ms)	I _p (< 20ms) < 100 A

Load capacity of contacts

Resistive load	permanently up to 16 A
Cos φ = 1	3680 W
Cos φ = 0,5	1990 VA *
LED bulb	max. 10 pcs.*

* the total inrush current must not exceed 100 A for less than 20 ms.

Detection field:





IR16 Profi

Order No. - 0916

Description:

- It is used to automatically switch the lighting on when the detection field is violated.
- The internal circuit with surge protection when switching capacitive loads increases the resistance of the relay contacts.
- It is suitable for indoor and outdoor areas, where the main requirement is a greater number of lighting switching (staircases, corridors, industrial buildings).

IR16 Profi



Reflector mirror for 180° angle

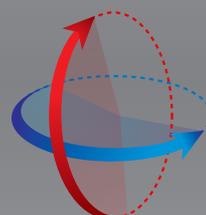


Controls:



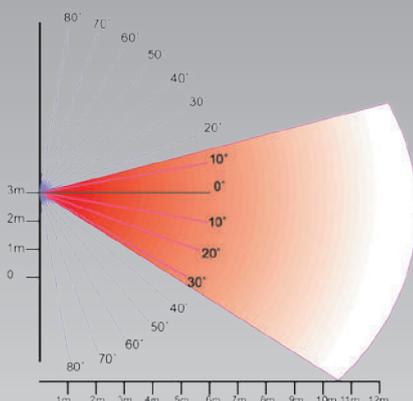
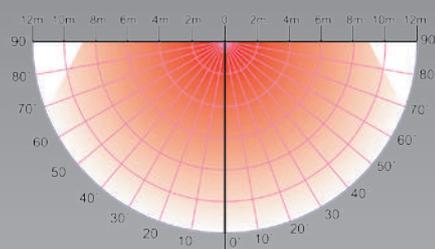
Mechanical sensor routing:

from -45° to +45°

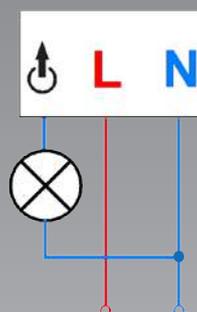


from -80° to +80°

Detection field:



Scheme of connection:



Technical specification

Power supply	230 V / 50 Hz
Load	3680 W (max.16 A)
Detection angle	180°
Detected movement speed	0.6~1.5m/s (cca 4km/h) – regular walk
Detection distance	2 up to 11 m
Adjustable time	5 s up to 10 min.
Sensitivity to light	< 5 up to 1000 Lux
Protection	IP 44
Installation height	1,5 up to 3 m
Working temperature	-20 up to 40 °C

IR24A-Klasik

Order No. - 0926

IR24A

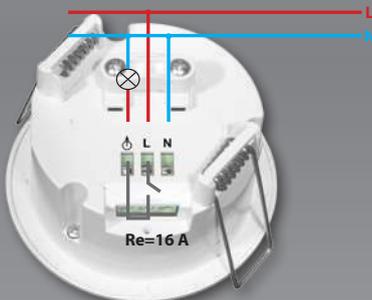
Description:

- Infrared ceiling motion sensor IR24A-Klasik is suitable for switching most electrical appliances especially lighting in living areas, e.g. in corridors, living rooms etc.
- Due to the use of power switching element (relay 16 A), you can control e.g. electric heater, which then heats only when someone is moving in the room.

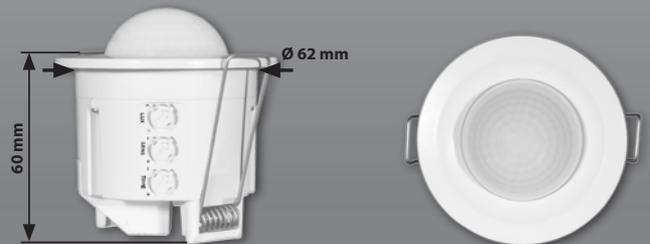
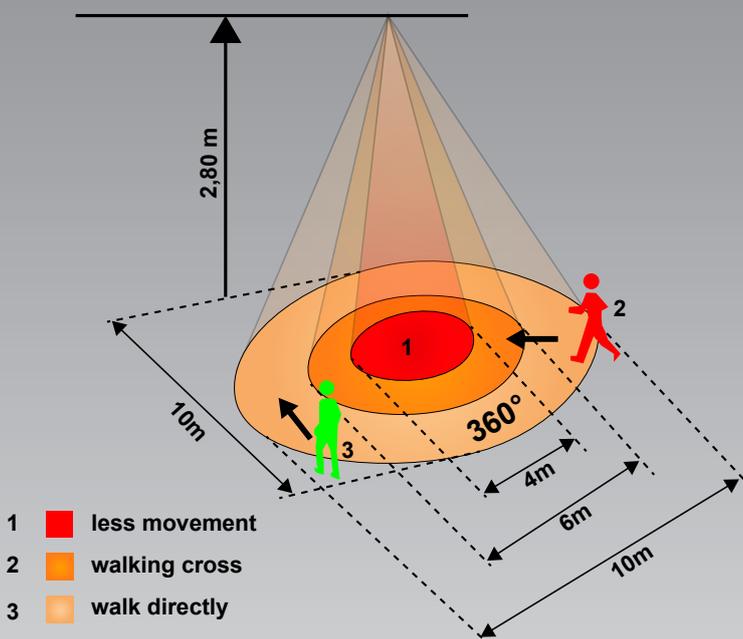
Controls:



Scheme of connection:



Detection field:



Technical specification

Power supply	230 V AC
Consumption	< 0,6 W
Light intensity adjustment range	10 - 2000 Lux
Switching power	16 A
Scanning angle	360°
Deceleration time (light)	5s - 10 min.
Working temperature	-20 up to 40 °C
Protection	IP20
Extended Warranty	3 years

Contact specification

Type of contacts	NO
Mechanical lifetime	1 000 000 switching
Electrical lifetime	100 000 switching / 12 A
Electrical lifetime	50 000 switching / 16A
Max. start-up current I _p (20 ms)	I _p (< 20ms) < 100 A
Type of contact switching	ZCR (zero cross relay)

Load capacity of contacts

Resistive load	permanently up to 16 A
Cos φ = 1	3680 W
Cos φ = 0,5	1990 VA*
LED bulb	max. 10 pcs.*

*the total inrush current must not exceed 100 A for less than 20 ms.

KLASIK

IR28B Klasik

Order No. - 0935

IR28B



16A



IR28B Klasik also allows switching LEDs light bulbs.

In some types of motion sensors, when the LED bulbs are operated, they occasionally flicker when switched off.

This is technically solved with the IR28B Klasik.

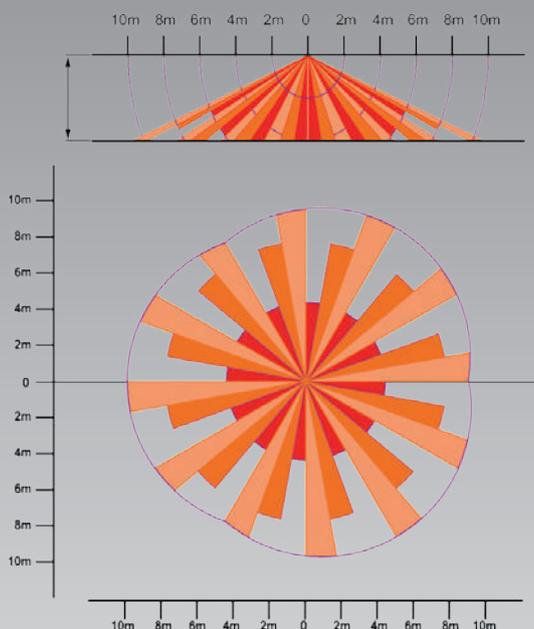


3 sensors for a circular shot

Description:

- It is used for automatic switching of illumination after detecting the detection field in horizontal and vertical flat surface.
- The internal circuit with surge protection when switching capacitive loads increases the resistance of the relay used.
- It is suitable for places where the main requirement is a large number of lighting switching (such as entrance areas of concrete high-rise block of flat, offices and industrial buildings).

Detection field:



Controls:



Technical specification

Power supply	230 V / 50 Hz
Load	2300 W (max. 16 A)
Detection angle	360°
Detected movement speed	0.6~1.5m/s (cca 4km/h) – regular walk
Detection distance	max. 12 m
Adjustable time	5 s up to 10 min.
Sensitivity to light	< 3 up to 1000 Lux
Protection	IP 20
Installation height	> 2,2 m
Working temperature	0 up to 40 °C

IR28B Profi

Order No. - 0928



Description:

- It is used for automatic switching of illumination after the detection field is disrupted in horizontal and vertical plane (there are 3 sensors inside).
- The internal circuit with surge protection when switching capacitive loads increases the resistance of the relay used.
- It is suitable for places where the main requirement is a large number of lighting switching (such as entrance areas of concrete high-rise block, offices and industrial buildings).

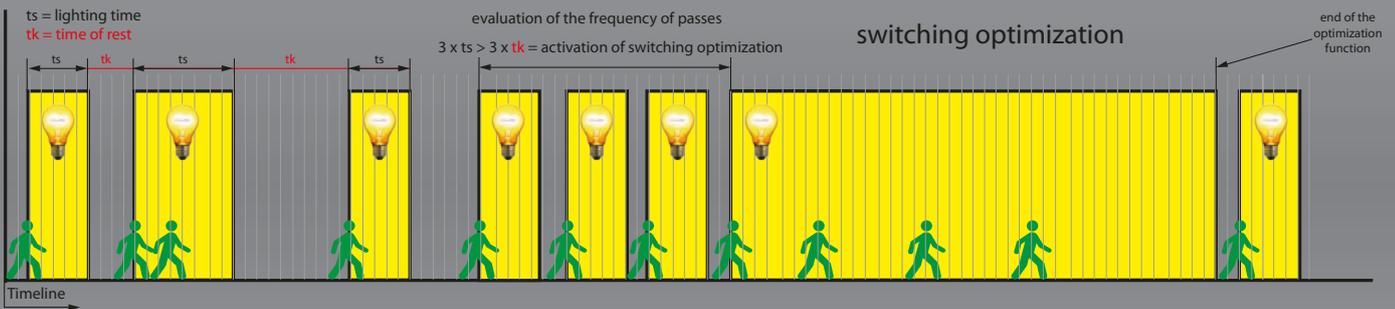


3 sensors for a circular shot

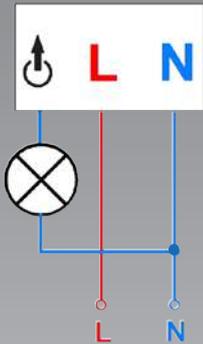
IR28B Plus Profi

Order No. - 0929

Lighting switch optimization chart:



Scheme of connection:



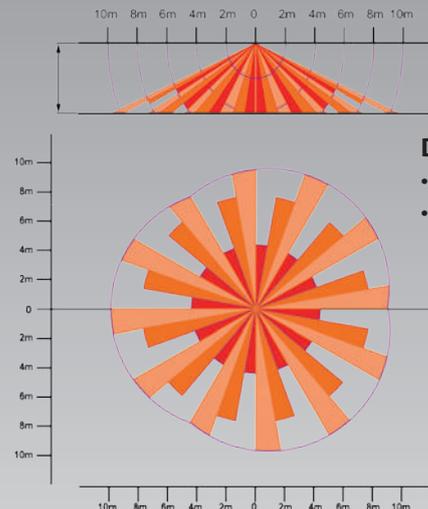
Controls:



The microprocessor unit evaluates the frequency of lighting switching. If the illumination switch-off time is three times shorter than the illumination time, a permanent switch-on occurs. This function is automatically canceled if the detection field is not violated (no pass) for more than three times the set switching time. The function optimizes the number of times the fixtures are switched on, thus increasing their service lifetime.

Technical specification

Power supply	230 V / 50 Hz
Load	2300 W (max. 16 A)
Detection angle	360°
Detected movement speed	0.6~1.5m/s (cca 4km/h) – regular walk
Detection distance	max. 12 m
Adjustable time	5 s up to 10 min.
Sensitivity to light	< 3 up to 1000 Lux
Protection	IP 20
Installation height	> 2,2 m
Working temperature	0 up to 40 °C



Detection field:

- IR28B Profi
- IR28B Plus Profi

Motion sensors of the PROFI series are characterized by increased lifetime of relay contacts. Therefore, it is suitable for professional use where long-term reliability of lighting switching is required with frequent passage of people.

PROFI products are equipped with a special semiconductor-relay output, which allows switching light sources that are characterized by a high current surge when switched on. This current can reach up to 120 A for <20 ms.

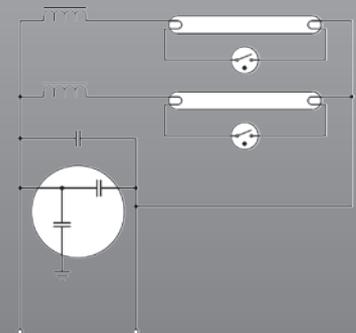
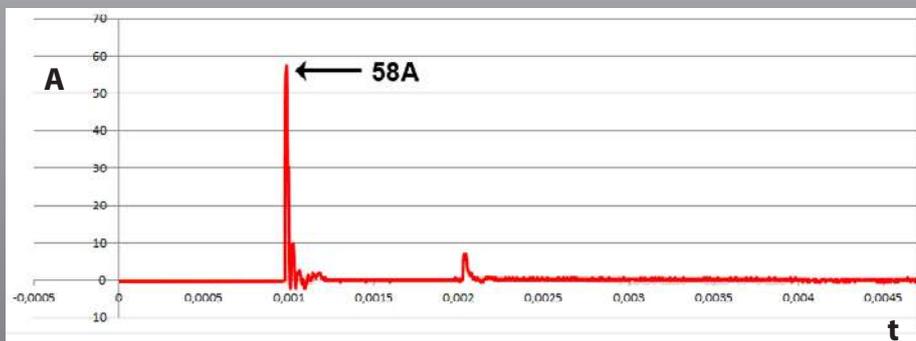


IR28B Profi

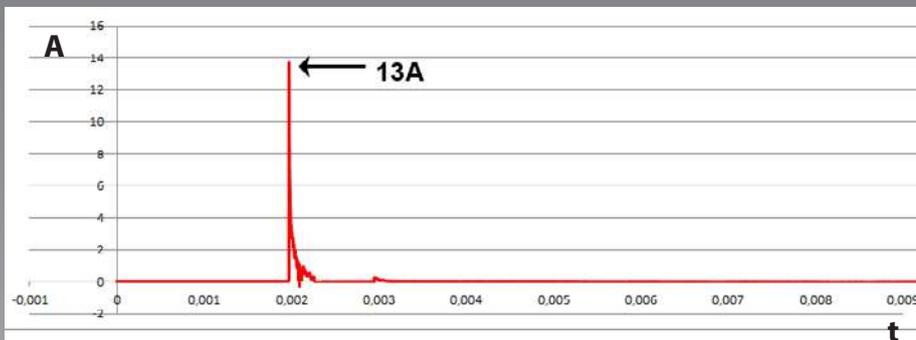
Switching current of fluorescent lamp 2 x 80 W (EP OT-FQ)

The attached graph shows that at the moment of switching on the inrush current reaches several tens of amperes and after stabilization this current decreases to a small value. This high inrush current can damage the relay contact surface within a few switches, gradually causing burns to the contact and switching problems. In PROFI sensors, this problem is technically solved.

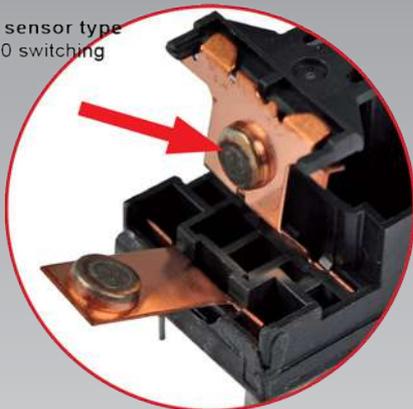
Switching current of fluorescent lamp 2 x 80 W (EP OT-FQ)



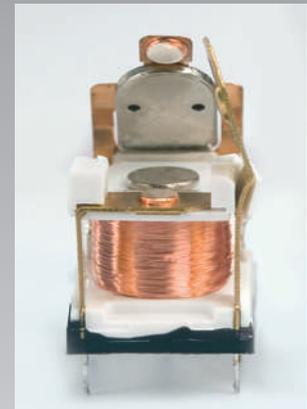
Switching current of LED bulb (CLA60 12W)



Common sensor type in 10,000 switching



IR28B Profi in 10,000 switching



IR28B W-link

Order No.- 0930



3 sensors for a circular shot

IR28B W-link

Sensor with radio module for wireless communication with other sensors.

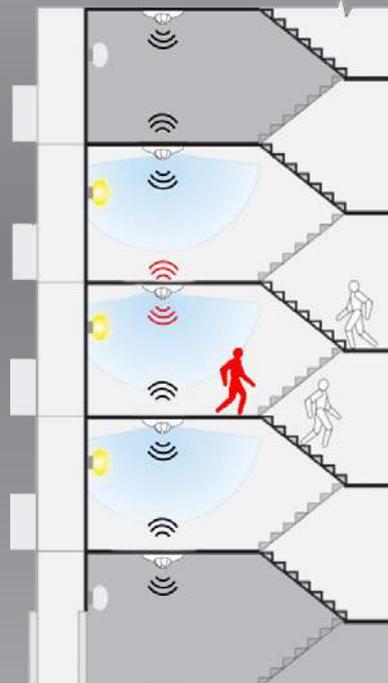
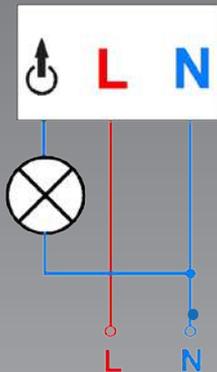
Description:

- When passing between floors, the lighting on the next floor is automatically switched on = SAFETY SOLUTION FOR STAIR LIGHTING (never enter the dark)!
- The coding system allows you to teach one sensor to 6 codes. In practice, the learning system is very simple.
- The IR28B W-link can also work with WS301 / WS302 / WS303 receivers.

Controls:

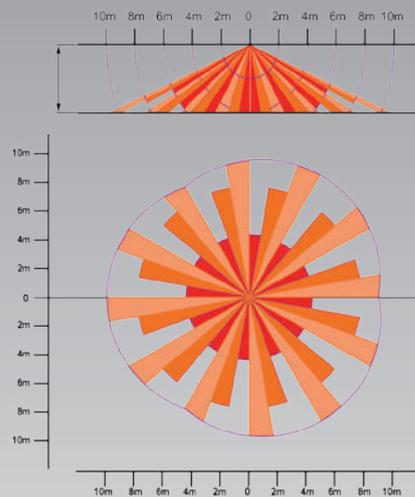


Scheme of connection:



A sensor that detects movement sends a radio signal to the sensors located up and down, which also switch. This ensures that you do not go into the darkness when walking down the corridor.

Technical specification	
Power supply	230 V / 50 Hz
RF power	< 10 mW
Frequency	433,92 MHz
Range (signal)	15 m
Detection angle	360°
Detected movement speed	0.6~1.5m/s (cca 4km/h) – regular walk
Load	3680 W (max.16 A)
Detection distance	max. 12 m
Adjustable time	5 s up to 10 min.
Sensitivity to light	< 3 up to 1000 Lux
Protection	IP 20
Installation height	> 2,2 m
Working temperature	0 up to 40 °C





IR22A-Klasik

Order No.- 0922

IR22B-Klasik

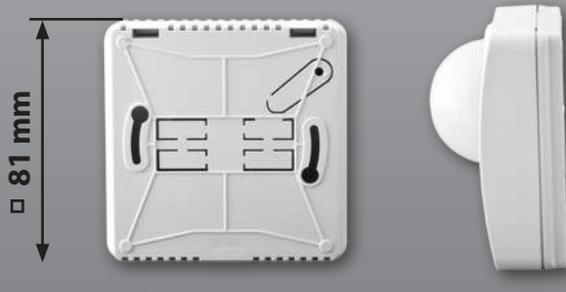
Order No. - 0923

IR22

Description:

IR22 allows switching LED bulbs. In some types of motion sensors, when the LED bulbs are operated, they occasionally flicker when switched off. **This is technically solved with IR22.**

Controls:



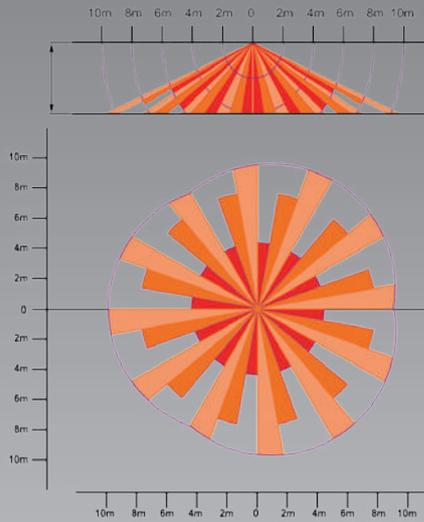
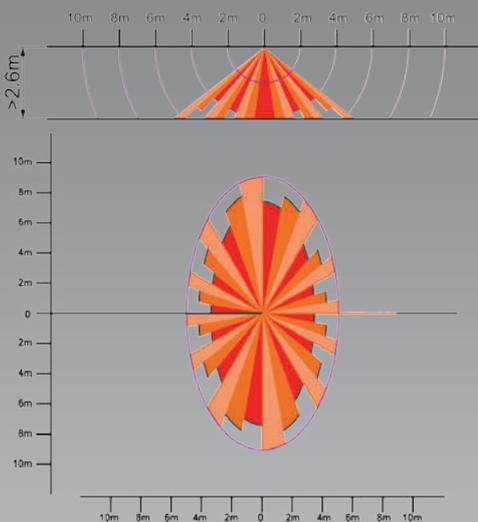
Detection field:

IR22A

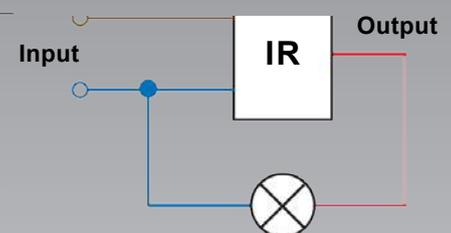
IR22B



3 sensors for a circular shot



Scheme of connection:



Technical specification

Types of loads:

Power supply	230 V / 50 Hz	Maximum switching current	up to 16 A
Consumption	< 1 W	Light bulbs	2300 W
Light intensity adjustment range	10 - 2000 Lux	Fluorescent lamps with lossless ballast - in parallel	250 VA
Scanning angle	360°	Fluorescent lamps with lossless ballast - as standard	400 VA
Deceleration time (light)	5 s - 10 min.	Energy saving light bulbs	100 W / max. 9 pcs.
Working temperature	-20 up to 40 °C	LED bulbs	100 W / max. 9 pcs.
Protection	IP20	Fans	350 W

IR30

Order No. - 0931

Description:

- IR30 is an infrapassive sensor, where the output element is a relay and is therefore suitable for switching almost all types of loads.
- After registering the movement in the space, the sensor automatically switches on the connected electrical appliance (mostly lighting) and switches off after the set time.
- Using a sensor saves energy - you don't have to wonder if the light stays on, the IR30 always goes out for you.
- Thanks to the control elements, the sensor can be adapted to switch on the light only when it gets dark.



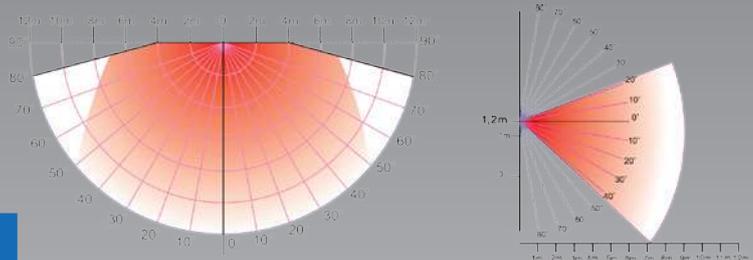
IR30



Function switch and trimmer, which are hidden under the cover.



Detection field:



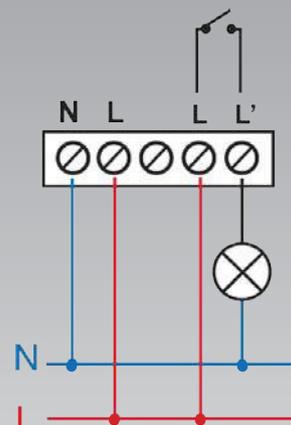
Controls:



Technical specification

Power supply	230 V / 50 Hz
I _{max}	6 A
bulb	1200 W
halogen, transformer fluorescent lamp uncompensated	350 VA
fluorescent lamp compensated	not recommended
energy saving light bulb	max. 5 pcs.
Detection angle	180°
Switching time	5 s up to 10 min.
Sensitivity to light	< 3 Lux up to 1000 Lux
Detection range	2 m up to 12 m
Protection	IP20
Working temperature	0 up to 40 °C

Scheme of connection



LM-102D

Order No. - 0180

CE¹⁵
0359
0359-CPR-00486
EN14604:2005/AC:2008

Description:

- It reacts in all directions, ensuring higher sensitivity and faster smoke detection.
- LM-102D meets the requirements of the regulation „About technical conditions of buildings fire protection“ Law 23/2008 Coll. valid since 1.7.2008!

Function:

- LM-102D is designed to detect smoldering fire, which is caused by smoldering e.g. paper, textile and wood.
- Optical and acoustic signalling are activated after smoke detection and an acoustic alarm to alert persons within the detector's range of an emerging hazard.
- This detector works on the principle of scattered light.
- It also reacts to the smallest amount of smoke entering the detector housing.
- Functionality allows you to test users on the top instrument.
- It is exclusively designed as a separate device for installation in houses, flats and offices.
- It is not intended for caravans!



LM-102D



9 V alkaline battery included.

Smoke detectors: guards protecting you and your property



The **large „TEST“ button** makes it **convenient** device to control easily from the ground with a broom or another long object.

Technical specification	
Power supply	9 V alkal. battery (type 6F22)
Battery lifetime	1 to 3 years (depending on type)
Sensitivity	in accordance with EN14604
Volume	> 85 dB
Power input	<12 uA (working <20 mA)
Detection chamber	optical chamber
Low battery indication	7.35 V (signalling every 43 s)
Lifetime	3 - 5 years
Protection	IP42
Working temperature	-10 up to 40 °C



LM-107A



LM-107A

Order No. - 0182

CE₁₅
0832
0832-CPR-F0913
EN14604:2005/AC:2008

10 yr.
10 years inserted
battery lifetime



Description:

- It reacts in all directions, ensuring higher sensitivity and faster smoke detection.
- LM-107A meets the requirements of the regulation „On the technical conditions of fire protection of buildings“ Law 23/2008 Coll. valid from 1.7.2008!

Function:

- LM-107A is designed to detect smoldering fire, which is caused by smoldering e.g. paper, textile and wood.
- Optical signalling is activated after smoke detection and an acoustic alarm to alert person within the detector's range of an emerging danger.
- This detector works on the principle of scattered light.
- It also reacts to the smallest amount of smoke entering the detector cover.
- Functionality can be tested by the button on the top cover of the instrument.
- It is exclusively designed as a separate device for installation in houses, flats and offices.
- It is not intended for caravans!

Smoke detectors: guards protecting you and your property



The **large „TEST“ button** makes it **convenient** device to control easily from the ground with a broom or another long object.

Technical specification	
Power supply	3 V Lithium battery, CR123A
Battery lifetime	10 years
Volume	> 85 dB (3m)
Power input	0,002 mA (working < 120 mA)
Detection method	optical chamber
Low battery indication	YES
Working temperature	-10 up to 40 °C
Dimensions	Ø 102 x 36 mm
Lifetime	up to 10 years
Protection	IP42



ELBO-073

Order No.- 0106



Product video



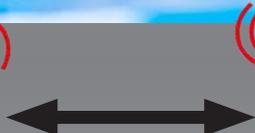
Your pool guard



transmitter - sensor ELBO-073



receiver - siren



Description:

- Independent of water level (can be used for any swimming pool or garden lake).
- High protection against external environment IP67 (can be used for commonly chemically treated pools with salt water).
- Two-way communication (guarantees high reliability of signal transmission).
- Possibility to set the sensitivity of the sensor (setting the sensitivity threshold according to the environment and filtration).
- Automatic activation (when activated on a calm water surface, it is automatically activated after 30 s).
- Emergency mode (suitable at bathing time, the alarm will be activated automatically after 2 min)
- Loud siren (up to 95 dB).
- Long range (up to 300 m in open area).
- Possibility to use repeater to extend the signal range).
- Possibility to pair with other receivers to cover the whole house.
- Transmitter power supply (sensor) 2 x 1.5 V AA with battery lifetime of 1 year.
- Receiver power supply (sirens) to 230 V AC / 50 Hz.

Transmitter	
Power supply	2 x 1,5 V AA
RF power	10 mW
Frequency	433,92 MHz
Protection	IP67
Working temperature	10 up to 50 °C
Sensor type	wireless
Battery lifetime	up to 1 year
Receiver	
Power supply	230 V / 50 Hz
Volume	95 dB
Consumption	to 1,5 VA
Protection	IP20
Working temperature	10 up to 50 °C
Free range	approx 300 m
Range in built-up areas	approx 30 m

This security product is just another level of security, not a 100 percent solution.

Overview of used marks in the catalogue:



The KLASIK series is equipped with OMRON power switching relays with current up to 16 A



The PROFI series is equipped with a special semiconductor - relay output for continuous currents up to 16A with starting current up to 100 A for <20 ms.



The product is equipped with an indication LED



Mark for regulable light sources



Motion sensitivity control



Control element for setting the switching time



Daylight sensitivity control



Possibility of switching up to 16 A



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www.elbock.cz



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