

## GB Installation instructions

### Dear customer,

Many thanks for the trust that you have shown in purchasing your new STEINEL infrared sensor. You have chosen a high-quality product that has been manufactured, tested and packed with the greatest care.

Please familiarise yourself with these instructions before attempting to install the sensor because prolonged, reliable and trouble-free operation will only be ensured if it is installed and used properly.

We hope that your new infrared sensor brings you lasting pleasure.

### Principle

The built-in sensor for indoors and outdoors with the size of a light bulb. Newly developed and uncompromisingly geared to professional needs: IS D 360, the built-in sensor that fits inside all commercially available fitting frames, since the external dimensions are the same as those of the light bulb. The unit is equipped with

pyro sensors that detect the invisible heat emitted from moving objects (people, animals etc.). This detected heat radiation is converted and switches on connected loads (e.g. a light). No heat radiation is detected through obstacles such as walls or panes of glass for example and consequently no switching occurs.

### Safety warnings

- The electrical connection lead must be dead during installation. Therefore, switch off the power first and use a voltage tester to make sure the wiring is off circuit.
- Installation of the built-in sensor involves connecting it to the mains supply. This work must therefore be carried out by a specialist

in accordance with the applicable national wiring regulations and electrical operating conditions. (DE- VDE 0100, AT-ÖVE/ÖNORM E8001-1, CH-SEV 1000)

- Only use genuine replacement parts.
- Repairs may only be carried out by specialist workshops.

### System components

#### IS D360

- ① Ceiling fitting frame
- ② Cover / cable grip
- ③ Mains module
- ④ Sensor unit

- ⑤ Shroud
- ⑥ Securing spring
- ⑦ Twilight setting (2 – 2000 lux)
- ⑧ Time setting (5 sec. – 20 min.)


### Installation

The site of installation should be at least 50 cm away from another light because heat radiated from it may activate the system.

The mains supply lead is a 3-core cable:

**L** = phase

**N** = neutral conductor

**PE** = protective-earth conductor 

S1, S2: Connection contacts for operation of devices between 50 V – 240 V-.

With connection type (1), jumper from L to S1 must be applied.

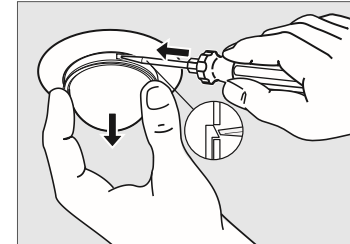
**This eliminates the electrical isolation.**

## Functions

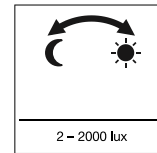
Functional configuration can be performed before fitting the sensor unit. If you wish to change the configuration again after fitting the sensor unit, the catch must first be released with a flat-bladed screwdriver and the sensor unit must be removed (see illustration).

The light fixture automatically switches to continuous operation in this case. On fitting the sensor unit, an approx. 45 second measuring phase is initiated on each occasion. The red LED flashes during this period.



Two settings are available on the device:




### Twilight setting (response threshold)

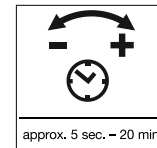


(factory setting: daylight operation 2000 lux)

The desired response threshold of the motion detector is infinitely adjustable between approx. 2 lux to 2000 lux. Adjusting screw set to  means daylight operation at approx. 2000 lux. Adjusting screw set to  means night-time operation at approx. 2 lux.

The adjusting screw must be set to  when adjusting the detection zone and performing the function test in daylight.

### Time setting (switch-off delay)



(factory setting: approx. 5 sec.)

The desired duration of illumination of the connected lamp is infinitely adjustable between approx. 5 sec. to max. 20 min.

Adjusting screw set to **-** means the shortest time, approx. 5 sec., adjusting screw set to **+** means the longest time, approx. 20 min. The shortest time setting is recommended when adjusting the detection zone and performing the function test.

### Manual override function ⑩

If a mains switch is installed in the mains supply lead, the light is capable of the following functions in addition to the simple ON/OFF function:

#### Sensor operation

##### 1) Switch light ON (when light is OFF):

Turn switch OFF and ON once.  
Light stays ON for the period selected.

##### 2) Switch light OFF (when light is ON):

Turn switch OFF and ON once.  
The light goes out or switches over to sensor mode.

**Important:** The switch should be operated several times in rapid succession.

#### Manual override

##### 1) Activate manual override:

Turn switch OFF and ON twice. The lamp is set to stay on for 4 hours (red LED lights up behind the lens). Then it returns automatically to sensor mode (red LED off).

##### 2) Deactivate manual override:



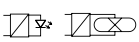
Turn switch OFF and ON once. The light goes out or switches over to sensor mode.

### Reach setting / adjustment ⑪

With an assumed mounting height of 2.5 m, the maximum reach of the sensor is 8 m. The detection zone can be optimally adjusted according to needs. The shroud provided can be used for masking out any number of lens segments to shorten reach as required. This pre-

vents the light from being activated unintentionally, e.g. by cars, passers-by etc. and allows you to target danger spots. The shroud can be separated along the pre-grooved divisions in the vertical and horizontal directions and applied to the lens.

### Technical specifications

Dimensions (H x Ø):	83 x 82 mm
Output:	
	Filament bulbs, 1000 W max., operating on 230 V AC
	Fluorescent lamp, 5 AX max., at $\cos \varphi = 0.5$ , inductive load at 230 V AC
	4 x max. each 58 W, $C \leq 88 \mu\text{F}$ operating on 230 V AC *
Switching capacity:	50 – 240 V- / 5 A
Connection:	230 – 240 V/50 Hz
Angle of coverage:	360° with 180° angle of aperture
Reach:	8 m max. all round
Sensor system:	10 detection zones, 720 switching zones
Time setting:	5 sec. – 20 min.
Twilight setting:	2 – 2000 lux
Manual override:	4 hrs. selectable
Enclosure (top/bottom):	IP 20
Temperature range:	-20 °C to +50 °C

\* Fluorescent lamps, low-energy bulbs, LED lights with electronic ballast (total capacity of all connected ballasts below the value specified)

### Troubleshooting

Malfunction	Cause	Remedy
Without power	<ul style="list-style-type: none"> <li>■ Fuse faulty, not switched ON</li> <li>■ Short circuit</li> </ul>	<ul style="list-style-type: none"> <li>■ New fuse, switch ON mains switch, check lead with a voltage detector</li> <li>■ Check connections</li> </ul>
Does not switch ON	<ul style="list-style-type: none"> <li>■ Twilight setting in night-time mode during daytime operation</li> <li>■ Bulb faulty</li> <li>■ Power switch OFF</li> <li>■ Fuse faulty</li> <li>■ Detection zone not targeted</li> </ul>	<ul style="list-style-type: none"> <li>■ Adjust setting</li> <li>■ Replace light bulbs</li> <li>■ Switch ON</li> <li>■ New fuse, check connection if necessary</li> <li>■ Re-adjust</li> </ul>
Does not switch OFF	<ul style="list-style-type: none"> <li>■ Continued movement in the detection zone</li> <li>■ Light is in detection zone and keeps switching ON as a result of temperature change</li> </ul>	<ul style="list-style-type: none"> <li>■ Check zone and re-adjust or shroud if necessary</li> <li>■ Change zone, or apply shroud</li> </ul>
Keeps switching ON/OFF	<ul style="list-style-type: none"> <li>■ Lamp being operated in the detection zone</li> <li>■ Animals moving in the detection zone</li> </ul>	<ul style="list-style-type: none"> <li>■ Adjust zone, shroud or increase distance</li> <li>■ Adjust zone, or apply shroud</li> </ul>
Switches ON when it should not	<ul style="list-style-type: none"> <li>■ Wind moves trees and bushes in the detection zone</li> <li>■ Cars in the street are being detected</li> <li>■ Sudden change in temperature due to weather (wind, rain, snow) or air expelled from fans, open windows</li> </ul>	<ul style="list-style-type: none"> <li>■ Adjust zone or apply shroud</li> <li>■ Adjust zone or apply shroud</li> <li>■ Adjust zone, change installation site</li> </ul>
LED flashes rapidly	<ul style="list-style-type: none"> <li>■ Overload protection activated</li> </ul>	<ul style="list-style-type: none"> <li>■ Switch OFF unit and switch ON again after cooling down</li> </ul>

## Operation / Maintenance

The infrared sensor is suitable for switching on light automatically. The unit is not suitable for burglar alarm systems as it is not tamperproof in the manner prescribed for such systems. Weather conditions may affect the way the motion detector works. Strong gusts of wind,

snow, rain or hail may cause the light to come on when it is not wanted because the sensor is unable to distinguish sudden changes of temperature from sources of heat. The detector lens may be cleaned with a damp cloth if it gets dirty (do not use cleaning agents).

## Disposal

Electrical and electronic equipment, accessories and packaging must be recycled in an environmentally compatible manner.



Do not dispose of electrical and electronic equipment as domestic waste.

EU countries only:

Under the current European Directive on Waste Electrical and Electronic Equipment and its implementation in national law, electrical and electronic equipment no longer suitable for use must be collected separately and recycled in an environmentally compatible manner.

## Manufacturer's warranty

As purchaser, you are entitled to your statutory rights against the vendor. If these rights exist in your country, they are neither curtailed nor restricted by our Warranty Declaration. We guarantee that your STEINEL Professional sensor product will remain in perfect condition and proper working order for a period of 5 years. We guarantee that this product is free from material-, manufacturing- and design flaws.

In addition, we guarantee that all electronic components and cables function in the proper manner and that all materials used and their surfaces are without defects.

### Making Claims

If you wish to make a claim, please send your product complete and carriage paid with the original receipt of purchase, which must show the date of purchase and product designation, either to your retailer or contact us at STEINEL (UK) Limited, 25 Manasty Road, Axis Park, Orton Southgate, Peterborough, PE2 6UP, for a returns number. For this reason, we recommend that you keep your receipt of purchase in a safe place until the warranty period expires. STEINEL shall assume no liability for the costs or risks involved in returning a product.

For information on making claims under the terms of the warranty, please go to [www.steinel-professional.de/garantie](http://www.steinel-professional.de/garantie)

If you have a warranty claim or would like to ask any question regarding your product, you are welcome to call us at any time on our Service Hotline 01733 366700.

**5 YEAR**  
MANUFACTURER'S  
WARRANTY

## FR Instructions de montage

### Cher client,

Nous vous remercions de la confiance que vous avez témoignée à STEINEL en achetant ce détecteur infrarouge. Vous avez choisi un article de très grande qualité, fabriqué, testé et conditionné avec le plus grand soin. Avant de l'installer, veuillez lire attentivement ces instructions de montage. En effet, seules une

installation et une mise en service correctement effectuées garantissent durablement un fonctionnement impeccable et fiable.

Nous souhaitons que votre nouveau détecteur infrarouge vous apporte entière satisfaction.

FR

### Le principe

Le détecteur à intégrer pour l'intérieur et l'extérieur, de la taille d'une ampoule. De conception nouvelle et répondant sans concessions aux attentes des professionnels : l'IS D 360 est un détecteur à encastrer qui loge dans tous les cadres à encastrer courants, car il a les dimensions extérieures d'une ampoule. L'appareil est muni de détecteurs pyroélectriques qui détectent le rayonnement de chaleur

invisible émis par les corps en mouvement (personnes, animaux, etc.). Ce rayonnement de chaleur capté est ensuite traité par un système électronique qui met en marche l'appareil raccordé (p. ex. une lampe). Les obstacles comme les murs ou les vitres s'opposent à la détection du rayonnement de chaleur et empêchent toute commutation.

### Consignes de sécurité

- Pendant le montage, les conducteurs à raccorder doivent être hors tension. Il faut donc d'abord couper le courant et s'assurer de l'absence de courant à l'aide d'un testeur de tension.
- L'installation du détecteur à encastrer implique une intervention sur le réseau électrique et doit donc être effectuée par un professionnel confor-

mément à la norme (FR- NF C-15100, DE- VDE 0100, AT-ÖVE/ÖNORM E8001-1, CH-SEV 1000)  
■ N'utiliser que des pièces de rechange d'origine.  
■ Les réparations ne doivent être effectuées que par des ateliers spécialisés.

### Description de l'appareil

#### IS D 360

- ① Cadre à encastrer pour plafond
- ② Cache / dispositif de protection contre les tractions
- ③ Module secteur

- ④ Unité de détecteur
- ⑤ Cache enfichable
- ⑥ Ressort de blocage
- ⑦ Réglage de crépuscularité (2 – 2 000 lux)
- ⑧ Temporisation (5 s – 20 min)

### Conseils d'installation

Il faut monter l'appareil doit être installé à 50 cm au moins de toute lampe car la chaleur pourrait entraîner un déclenchement intempestif du détecteur.

S1, S2 : Contacts de raccordement pour le fonctionnement d'appareils entre 50 V – 240 V-.

La conduite secteur est composée d'un câble à 3 conducteurs :

- L = phase
- N = neutre
- PE = terre

Si le branchement est de type (1), il faut poser un fil de liaison entre L et S1.

**La coupure de potentiel est alors supprimée.**