

Service

(D)

STEINEL-Schnell-Service
Dieselstraße 80–84
33442 Herzebrook-Clarholz
Tel.: +49/52 45/448-188

(A)

I. MÜLLER
Peter-Paul-Str. 15
A-2201 Gerasdorf bei Wien
Tel.: +43/22 46/21 46

(CH)

PUAG AG
Oberebenstrasse 51
CH-5620 Bremgarten
Tel.: +41/56/6 48 88 55

(GB)

STEINEL U.K. LTD.
37, Manasty Road
Orton Southgate
GB-Peterborough PE2 6UP
Tel.: +44/1733/238-265

(IRL)

SOCKET TOOL COMPANY
8, Queen Street
IRL-Dublin 7

(F)

DUVAUCHEL S. A.
86/108 Avenue Louis Roche
F-92230 Gennevilliers Cedex
Tel.: +33/141 472 040
e-mail: sav@duvauchel.fr

(NL)

HEGEMA PRESENT B.V.
Christiaan Huygensstraat 4
NL-3291 CN Strijen
Tel.: +31/78/674 44 44

(B)

PRESENT Handel b.v.b.a.
Toekomstlaan 6
Industriezone Wolfstele
B-2200 Herentals
Tel.: +32/14/25 74 74

(L)

A. R. Tech.
70, Millewee
Boite Postale 1044
L-1010 Luxembourg
Tel.: +3 52/49/33 33

(I)

THOELKE DISTRIBUZIONE
S.N.C.
Via Adamello 15/17
I-22070 Locate Varesino
(Como)
Tel.: +39/3 31/83 69 11
Fax: +39/3 31/83 69 13

(E)

SAET-94 S.L.
Polig. Industrial Cova Solera
C/Atenas, 5
E-08191 Rubí (Barcelona)
Tel.: +34/93/5 88-6725
e-mail: saet94@retemail.es

(P)

F. Fonseca, S.A.
Estrada de Taboreira,
87/89 Esigueira
Apartado 3003
3801-997 AVEIRO
Tel.: +351/234/30 39 00
Fax: +351/234/30 39 10
e-mail:
ffonseca@ffonseca.com

(S)

KARL H STRÖM AB
Verktygsvägen 4
Podjetje Za Trgovino
S-553 02 JONKÖPING
Tel.: +46/36/31 42 40

(DK)

BROMMANN
Eilegaastrøj 18
DK-6400 Sønderborg
Tel.: +45/74 42 88 62

(FIN)

Hedengren Yhtiöt
Oy Hedtec Ab,
Mänkimiehentie 4
FIN-02780 Espoo
Tel.: +358/9/68 28 81
Fax: +358/9/67 49 18
hedtec@hedtec.fi
www.hedtec.fi

(N)

STAUBO ELEKTRO-
MASKIN A.S.
Tvetensveien 30B
N-0611 Oslo
Tel.: +47/23 25 89 00

(CZ)

ELNAS spol. s.r.o.
Obřetkvice 394
CZ-67181 Znojmo
Tel.: +420/515/22 01 26
Fax: +420/515/26 15 25
e-mail: info@elinas.cz
http://www.elinas.cz

(PL)

LANGE ŁUKASZUK Sp.j.
Byków 25a
PL-55-095 Mirków
Tel.: +48/71/3 98 08 00
Fax: +48/71/3 98 08 02

(LT)

KVARCAS 17-4
A. Mickeviciaus
LT-3000 Kaunas
Tel.: +370/37/32 88 23

(EST)

FORTRONIC Ptc.
Tähe str. 108
EST-50113 Tartu
e-mail: forttron@online.ee

(SLO)

LOG Zabrnica D.O.O.
Podjetje Za Trgovino
SLO-4209 Zabrnica
Tel.: +386/42/31 20 00

(GR)

PANOS Lingonis + Sons O. E.
8, Aristofanos
GR-10554 Athens
Tel.: +32/10/3 21 20 21

(TR)

EGE SENSÖRLÜ
AYDINLATMA İTH. İHR.
TIC. VE PAZ. Ltd. STI.
Gersan Sanayi Sitesi 659
Sokak No. 510
TR-06370 Bati Sitesi
(Ankara)
Tel.: +90/312/2 57 12 33

(RA)

KALEKIN s.r.l.
Tivortovani 137
RA-1427 Buenos Aires
Tel.: +54/11/45 23-90 01

Infrarot-Sensor Typ 300



(D) Bedienungsanleitung

(GB) Operating instructions

(F) Mode d'emploi

(NL) Gebruiksaanwijzing

(I) Istruzioni per l'uso

(E) Instrucciones de montaje

(S) Bruksanvisning

(DK) Brugsanvisning

(FIN) Käyttöohje

(N) Bruksanvisning

Studioline

STEINEL®

STEINEL®

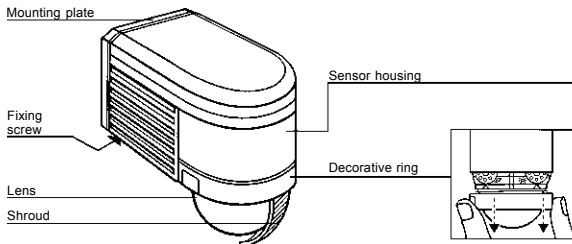
GB Installation instructions

STEINEL infrared sensors form the basis for modern efficient crime deterrents. They switch light on automatically on sensing movement within their detection zone and therefore provide convenience and safety, while making economical use of energy.

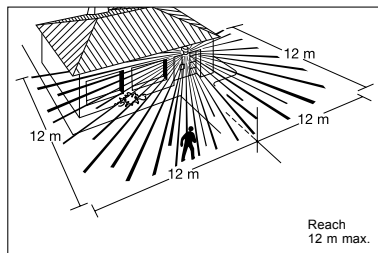
With a total of three integrated pyro sensors, the IS 300 motion detector records the heat and infrared radiation of moving bodies (people, animals, etc.) which is invisible to the human eye, within its detection zone. The recorded heat radiation is converted electronically and one or several connection consumers, e.g. lights, are switched on or off

again after a pre-programmed time on leaving the detection zone. No heat radiation is detected through obstacles, such as walls or glass and no switching therefore occurs. The IS 300 achieves an angle of coverage of 300° with an angle of aperture of 180°. It therefore covers a detection zone of approx. 300 m².

IS 300

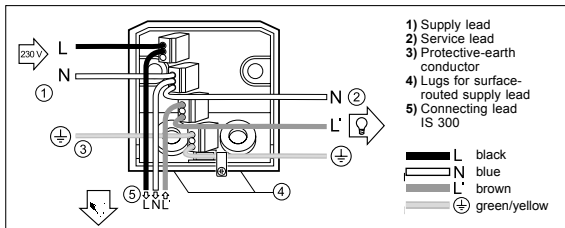


Reach



Important: The most reliable motion detection is achieved by mounting the unit diagonally to the direction of movement and ensuring that no obstacles (such as trees or walls) obstruct the line of sight.

Installation IS 300



Wall mounting

The installation site should be at least 50 cm from a light, since the latter's heat radiation could result in false triggering of the sensor. The installation height should be approx. 2 m. Unscrew the fastening screw counterclockwise with a screwdriver, slide down the mounting plate and remove it. Insert the rubber plugs into the mounting plate. Hold the mounting plate against the wall and mark the drill holes (paying attention to the wiring arrangement in the wall), drill the holes and insert the dowels.

In order to be able to perform a switching operation, a power supply lead with at least two phases must run to the unit and a second lead out to the consumer. The two rubber plugs can be pierced for this purpose with a screwdriver. Two lugs are provided on the bottom of the wall fastener for surface wiring. These can be snapped off easily. After passing the wiring through, the mounting plate can be screwed in place.

Connection of the leads:

The mains and consumer leads consist of a 2 to 3 conductor cable:

L, L' = live conductor or switched phase to the consumer (usually black or brown)
N = neutral conductor (usually blue)
PE = protective-earth conductor,

if present (⊕)
If in doubt, the conductors must be identified with a voltage tester. Switch off the current again.

Wiring of the mains and consumer conductors must be performed in the wall holder using the enclosed connecting terminals:

1. The live conductor is inserted in the first terminal (L).
2. Both neutral conductors (N) of the mains and consumer leads are inserted into the second terminal.
3. The switched phase to the consumer (L') is inserted into the third terminal.
4. Green/yellow protective-earth conductors (⊕) must be inserted together into the fourth terminal. In order to identify the flexible leads, the enclosed sticker (⊕) must be applied to one of the leads (green/yellow).

Connection of the IS 300:

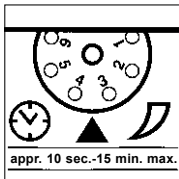
The connecting leads of the IS 300 are to be inserted into the connecting terminals according to the marking on the leads (L = black, N = blue, L' = brown).

Important: Getting the cable connections crossed will produce a short circuit in the unit or in your fuse box. In this case, you must once again identify the individual wires and reconnect them. A mains switch for ON and OFF switching can of course be installed in the mains lead.

Function

After the motion detector has been connected and fastened to its wall mount, the system can be switched on.

Two setting options are available after removing the decorative ring.

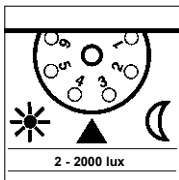


Switch-off delay (time setting)

The desired period of operation of the light can be adjusted continuously from approx. 10 sec. to a max. of 15 min.

When the adjustment screw is at the left stop position, this means the shortest time of approx. 10 sec. When the adjustment screw is at the

right stop position, this means the longest time of approx. 15 min. (Factory setting is at min.) The shortest time setting is recommended when adjusting the detection zone and performing a functional test.



Twilight setting

The desired motion detector response threshold can be adjusted continuously from approx. 2 lux to 2000 lux.

When the adjustment screw is at the left stop position, this means daytime operation of approx. 2000 lux.

When the adjustment screw is at the right stop position, this means twilight operation of approx. 2 lux.

This motion detector is equipped with integrated anti-dazzle protection and account should be taken of the following:

If the performance test is conducted in daylight, the twilight setting screw can be set to night operation.

There must be no motion in the detection zone within the set illumination time and 60 seconds thereafter, otherwise the light will remain illuminated.

The same procedure should be followed for any modification of the set twilight threshold.

(Factory setting is daytime operation.)

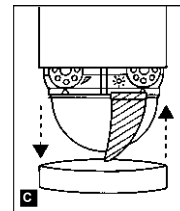
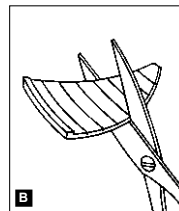
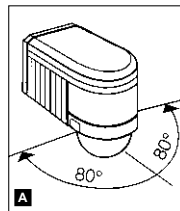
The adjustment screw must be at the left stop position when setting the detection zone and for the functional test in daylight.

Reach setting/adjustment

Assuming an installation height of 2 m, the maximum reach of the sensor is 12 m. Optimum adjustment of the detection zone is possible according to needs. The shrouds provided serve to cover any desired number of lens segments and individually reduce the reach. Fine adjustment is also possible

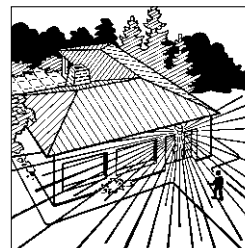
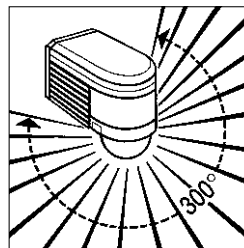
by turning the sensor housing by $\pm 80^\circ$ **A**. The shrouds can be divided vertically or horizontally along the grooved divisions, or cut with scissors **B**. After removing the decorative ring **C**, the shrouds are to be suspended on the upper part of the sensor lens. The decorative ring is subsequently to be

reapplied and the shrouds are fixed firmly in place. False switching by cars and pedestrians, etc. is therefore ruled out, or risk areas deliberately monitored.



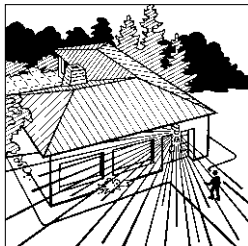
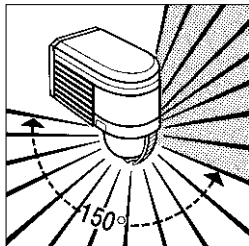
Reach setting/examples

1

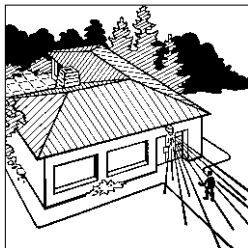
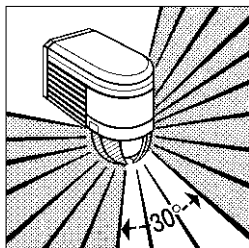


Reach setting/examples

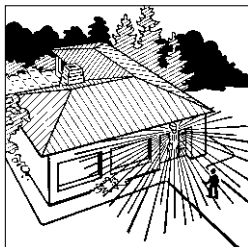
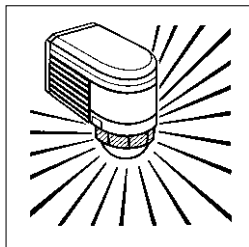
2



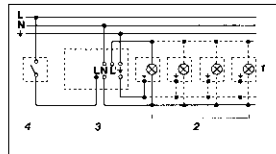
3



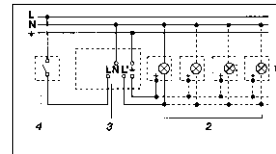
4



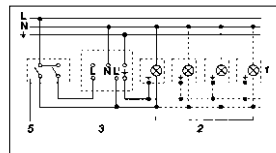
Wiring examples



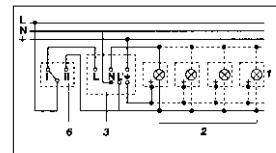
1. Fixture without neutral conductor



2. Fixture with neutral conductor



3. Connection via series switch for manual and automatic operation



4. Connection to double-throw switch for permanent light and automatic operation
Setting I: automatic operation
Setting II: manual operation for permanent light
Important: the unit cannot be switched off, only optional operation between settings I and II.

- 1) e.g. 1-4 x 100 W filament bulbs
- 2) consumer, lighting max. 2000 W (refer to Technical specifications)
- 3) IS 300 connection terminals
- 4) indoor switch
- 5) indoor series switch, manual, automatic
- 6) indoor double-throw switch, automatic, permanent light

Operation/Maintenance

The motion sensor is suitable for automatic switching of lights or alarms. The unit is not suitable for special burglary alarm systems, since it lacks the sabotage protection

prescribed for this purpose. Weather can affect operation of the sensor. Strong gusts of wind, snow, rain and hail can cause switching errors, since the sudden temperature

changes cannot be distinguished from heat sources. The detection lens can be cleaned with a damp cloth (without detergents) if dirty.

Troubleshooting

Malfunction	Cause	Remedy
IS 300 without power	<ul style="list-style-type: none"> ■ Fuse has blown; not switched ON ■ Short circuit 	<ul style="list-style-type: none"> ■ Replace fuse, switch on mains switch, check wiring with voltage tester ■ Check connections
IS 300 does not switch ON	<ul style="list-style-type: none"> ■ Twilight setting in nighttime mode during daytime operation ■ Bulb burnt out ■ Mains switch OFF ■ Fuse blown ■ Detection zone not correctly adjusted 	<ul style="list-style-type: none"> ■ Readjust ■ Replace light bulb ■ Switch power on ■ Replace fuse, check connection if necessary ■ Readjust
IS 300 does not switch OFF	<ul style="list-style-type: none"> ■ Continued movement within the detection zone ■ Switched on light is within detection zone and switches on again as a result of temperature change ■ Set to continuous operation by indoor series switch 	<ul style="list-style-type: none"> ■ Check zone and readjust if necessary or apply shroud ■ Readjust zone or apply shroud ■ Series switch to automatic
IS 300 keeps switching ON/OFF	<ul style="list-style-type: none"> ■ Switched on light is within detection zone ■ Animals moving in detection zone 	<ul style="list-style-type: none"> ■ Adjust detection zone or apply shrouds, increase distance ■ Adjust detection zone or apply shrouds
IS 300 switches on when it should not	<ul style="list-style-type: none"> ■ Wind is moving trees and bushes in the detection zone ■ Cars in the street are detected ■ Sudden temperature changes due to weather (wind, rain, snow) or exhaust air from fans or open windows 	<ul style="list-style-type: none"> ■ Adjust detection zone or apply shrouds ■ Adjust detection zone or apply shrouds ■ Adjust detection zone or install in a different place

Technical specifications

Dimensions (H x W x D):	90 x 60 x 100 mm
Output:	max. 2000 W (ohmic load, e.g. filament bulb) max. 1000 W (uncorrected, inductive, $\cos \phi = 0,5$, e.g. fluorescent lamps) max. 1800 W (series corrected) max. 500 W (parallel corrected with $C = 45,6 \mu\text{F}$) max. 1000 W (electronic ballast, capacitive, e.g. energy-saving lamps, max. 12 items)
Connection:	230 – 240 V, 50 Hz
Angle of coverage:	300° with 180° angle of aperture
Pivoting range of the sensor:	Fine adjustment $\pm 80^\circ$
Reach:	max. 12 m (electronically stabilised)
Time setting:	10 sec. – 15 min.
Twilight setting:	2–2000 lux
Type of enclosure:	IP 54

CE Declaration of conformity

This product complies with the European Directive on Low-Voltage Appliances,

73/23/EEC and the EMC Directive 89/336/EEC.

Functional Warranty

This STEINEL product has been manufactured with great care, and its operation and safety have been tested in conformity with the current regulations. Production is also submitted to final random-sample testing.

STEINEL undertakes the guarantee for perfect condition and function. The warranty period is 36 months, starting on the date of sale to the user. We undertake to remedy faults caused by material or manufacturing defects. This warranty undertaking shall be performed by the repair or replacement of the defective parts, at our own discretion. This warranty shall not cover damage to wearing parts or damage and faults caused by incorrect operation or maintenance. Breakage due to a fall is also not covered. Further consequential damage to external items is excluded.

Claims under warranty shall only be accepted if the product is sent fully assembled and well packed complete with sales slip or invoice (date of purchase and dealer's stamp) to the appropriate Service Centre or handed in to the dealer within the first 6 months.

Repair Service:
Our Customer Service Department will repair faults not covered by warranty or after the warranty period. Please send the product well packed to your nearest Service Centre.

FUNCTIONAL
36 month
WARRANTY