TUEX c.v.
experts in export

WWW.TUEX.com
E-mail: info@tuex.com
Ch. of Com: NL-243.08.200

Tel: +31 78 617 40 88
Fax: +31 78 617 41 88
VAT: NL.80 89 25 54 4B 01

PLEASE READ OUR INSTALLATION INSTRUCTIONS VERY CAREFULLY

Installation Instructions for the TUEX Doppler Sensor DS 58.10.42677

Working description: The TUEX Doppler Sensor is an active motion detector. The TUEX Doppler Sensor emits a high frequency electro-magnetic (5.8 GHz) of very low energy (<10 mW) wave and receives its echo. The TUEX Doppler sensor detects the change in echo from even the slightest movement in the detection zone. The microprocessor then triggers the “switch ON” command.

NOTE: The TUEX Doppler Sensor will detect movements through doors, panes of glass and thin walls.

Technical specifications of the TUEX Doppler Sensor

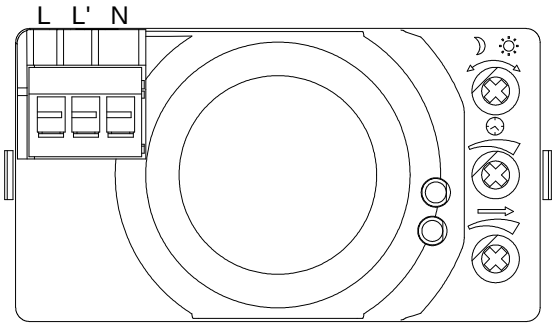
Power supply	220-240 Volt ☐ 100-130 Volt ☐
Power frequency	50/60 Hz
Internal Protection	IP 20
HF system	5.8 GHz CW ISM band
Transmission power:	<10mW
Rated inductive load:	for 220-240 Volt types: 200 VA
	for 100-130 Volt types: 100 VA
Adjustable reach:	between 3 and 10 m radius
Detection angle	360°in front of the TUEX sensor
Time setting	from 8 seconds to 12 minutes
Light control	from 2~2000 LUX
Power consumption:	approx.0.9W (in rest situation)

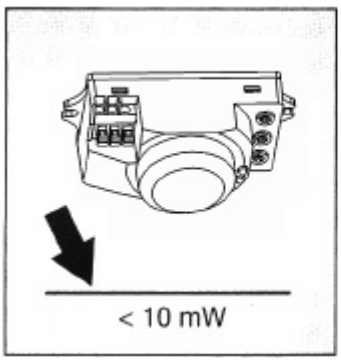
Electrical connections of the TUEX Sensor

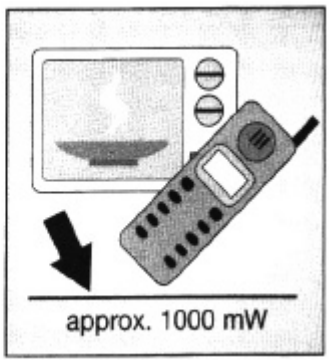
N= neutral L= power line L'= switch wire

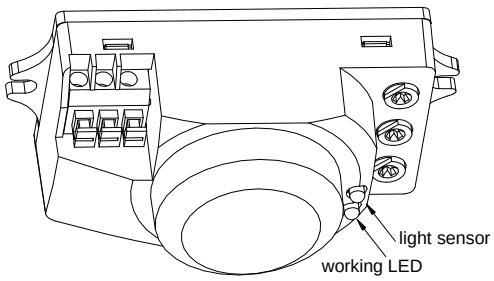
Connect the mains to: N and L

Connect the load to: N and L'









NOTE: the high frequency output of the TUEX Doppler Sensor is <10 Mw- that is just one 100th of the transmission power of a mobile phone or the output of a microwave oven.

Important: persons or objects moving towards the TUEX Doppler sensor are detected best

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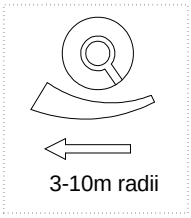
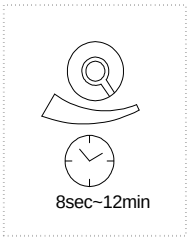
Reach setting (sensitivity) of the TUEX Doppler Sensor



Reach is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor at a height of 2.5 m, turn the reach control fully anticlockwise to select minimum reach (approx.3 m radii), and fully clockwise to select maximum reach (approx. 10 m radii).

NOTE: the above detection distance is gained in the case of a person who is between 1.6 ~ 1.7 m tall with middle figure and moves at a speed of 1.0~1.5 m/sec. If person's stature, figure and moving speed change, the detection distance will also change.

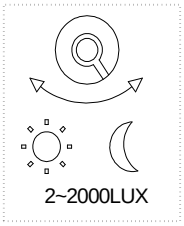
Time setting of the TUEX Doppler Sensor



The sensor can be set to stay ON for any period of time between approx. 8 sec (turn fully anticlockwise) and a maximum of 12 min (turn fully clockwise). Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test.

NOTE: after the load switches OFF, it takes approx. 1sec before it is able to start detecting movement again. The load will only switch on in response to movement once this period has elapsed.

Light-control setting of the TUEX Doppler Sensor



The chosen light response threshold can be infinitely from approx. 2-2000 LUX. Turn it fully anti-clockwise to select dusk- to-dawn operation at about 2 LUX. Turn it fully clockwise to select daylight operation at about 2000 LUX.

NOTE: The knob must be turned fully clockwise when adjusting the detection zone and performing the walk test in daylight.

Troubleshooting

Malfunction	Cause	Remedy
The load will not work	·Wrong light-control setting selected	·Adjust light level setting
	·Load faulty connected	·Check load connections
	·Main power is switched OFF	·Check of working LED lits
The load work always	·Continuous movement in the detection zone	·Check zone sensitivity setting
The load work without any identifiable movement	·The TUEX Doppler Sensor is not mounted for on the right location	·Mount the TUEX Doppler Sensor on a suitable location
	·Movement occurred, but not identified by the TUEX Doppler Sensor (movement behind wall, movement of a small object in immediate load vicinity etc.)	·Check zone sensitivity setting
The load will not work despite visible movement	·Rapid movements are being suppressed to minimize malfunctioning or the detection zone you have set is too small	·Check zone sensitivity setting