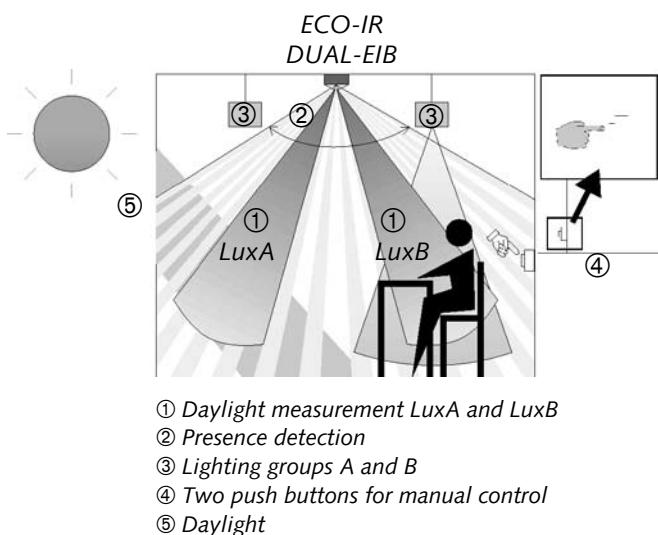
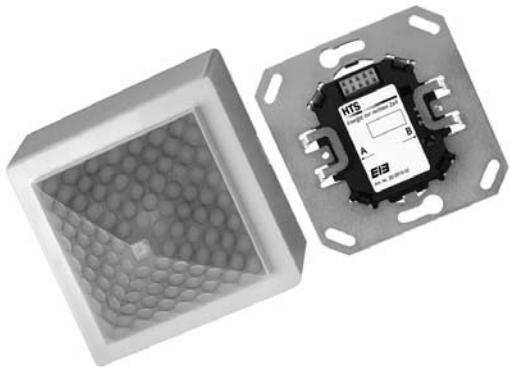
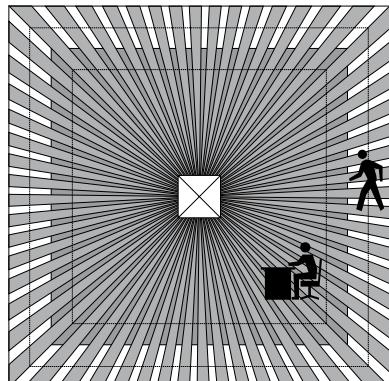
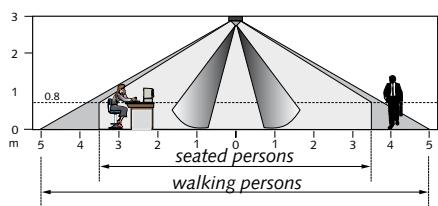


Presence Detector ECO-IR DUAL-EIB



Detection range



ECO-IR DUAL-EIB Product Features

- ◆ Passive infrared presence detector for EIB
- ◆ Square 360° detection range for ceiling mounting
- ◆ True daylight measurement in two individual zones
- ◆ Presence and daylight-dependent control for lighting systems
- ◆ Optional fully or semi-automatic operation of the lighting control
- ◆ Direct integration of push buttons for manual lighting control (push button input)
- ◆ Remotely parametrizable via ETS or adjustment using a potentiometer on the device
- ◆ Adaptive (self-learning) behavior
- ◆ Parallel connection of multiple presence detectors (master-slave) without any logic components
- ◆ Mechanical safety lock

Application

For a detailed functional description please refer to the „HTS EIB-Product Database“ specification sheet

Dual Daylight Measurement for Lighting Control of Two Zones

The ECO-IR DUAL-C allows the division of a room into two lighting zones (A = window zone, B = interior zone) with independent lighting control. The detector features two directed light measurement units, LuxA and LuxB, measuring the present daylight in the two zones. For each zone a brightness threshold value can be defined.

Suitable Lighting

The true daylight measurement is designed for use with fluorescent lights (FL/PL). Incandescent or halogen lights distort the daylight measurement and may disturb the function of the detector.

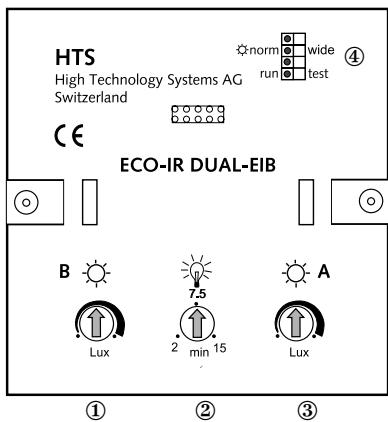
Presence Detection / Mounting

The ECO-IR DUAL-EIB reliably detects seated persons as well as walking persons (see side view (top) and top view (bottom) of the detection range in the figure on the left). In contrast to the daylight measurement, the presence detection takes place for both parts of the room together. The ranges in which seated persons and walking persons are detected differ in their expansion. In case of seated persons, the values given refer to the restricted detection range for movements taking place at table height. When using multiple detectors (e.g. connected in parallel to cover large offices), sufficient overlap of the individual detection ranges should be ensured. The sensitivity of the detector decreases with increasing mounting height. From a mounting height of 4m walking movements are required for detection. The maximum range is approx. 15m.

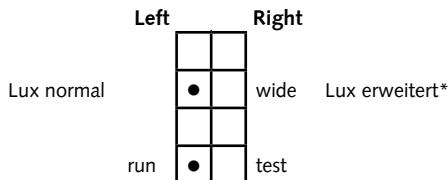
The recommended mounting height is 2.0m – 3.5m.

M.height	seated persons	walking persons
2,0m	4,5m x 4,5m	6,0m x 6,0m ± 0,5m
2,5m	6,0m x 6,0m	8,0m x 8,0m ± 0,5m
3,0m	7,0m x 7,0m	9,0m x 9,0m ± 0,5m
3,5m	8,0m x 8,0m	10m x 10m ± 1m
4,0m	-----	11m x 11m ± 1m

Sensore Module – Rear Side



DIP Switches



Settings on the ECO-IR DUAL-EIB

(see figure on the left)

All settings are remotely parametrizable via ETS. The use of local settings must be released by the application.

- 1) Brightness threshold LuxB (lux)*
- 2) Switch off delay for light (minutes)
- 3) Brightness threshold LuxA (lux)*
- 4) DIP switches:
The DIP switches serve to select the operation mode and to extend the brightness threshold value.

* Lux scale for low threshold values extended, light measurement deactivated on right limit stop.

Accessories

The unit can be flush-mounted into suspended ceilings using the QUICKFIX mounting kit.

A suitable surface frame for surface mounting is also available.

Technical Specifications for Presence Detector ECO-IR DUAL-EIB



Sensor module	ECO-IR DUAL-EIB
Detection range: horizontal	360°
vertical	120°
Recommended mounting height	approx. 2.0m - 3.5m
Parameter settings	
All settings are remotely parametrizable, the setting range of the potentiometer is limited	refer to „HTS EIB-Product Database“ specification sheet
Daylight control „standard“ (two zones)	approx. 100 - 1600Lux
„extended“	approx. 25 - 200Lux
Switch off delay for light	30s - 20min
Ambient temperature	0° - 45°C
Degree of protection	IP 40

Bus coupling unit	
Connections: screwless bus terminal	0,6...0,8mm single wire
Dimensions (L x W x D)	70 x 70 x 33mm
Ambient temperature	0° - 45°C
Size of concealed housing (for flush-mounting)	1 (NIS, PMI)
Article numbers	
ECO-IR DUAL-EIB sensor module	202 9 200
HTS EIB bus coupling unit	907 0 524

1103033401/09.07@Theben AG

This device complies with the protection regulations of the EMC directives 89/3/EWG and of the amending directives 92/31/EEC and 93/68/EEC.