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Observer 180 Standard / Universal Ref.-no.: ..3180../..3180-1A..

Operating Instructions Observer 180



1. System Information

This device is a product of the instabus EIB system and complies with EIBA directives.

Detailed technical knowledge obtained in instabus EIB training courses is a prerequisite to proper understanding.

The functionality of this device depends on the software.

Detailed information on loadable software and attainable functionality as well as on the software itself may be taken from the manufacturer's product database.

Planning, installation and commissioning of the unit are performed by means of EIBA certified software.

2. Installation Instructions

All attachment models are plugged onto an instabus bus coupler. Instructions on how to fit and install a bus coupler can be obtained from the technical documentation.

🕂 3. Safety warnings

Caution: The installation and assembly of electrical equipment may only be carried out by a skilled electrician.

4. Function

This user module is designed for interior application. It responds to thermal movements released by persons, animals or objects and transmits corresponding telegrams to the instabus.

The device must be fitted at the opposite installation height (1.10 m or 2.20 m), depending upon the cap lens type.

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① Lens for 2.20 m and 1.10 m installation height.



^② Lens for 1.10 m installation height.

Detection Field Pictorial Schematic Cap lens for 1.10 m installation height.

Size of detection field: 10 m x 12 m.

Details refer to an installation height of 1.10 m.



Detection Field Pictorial Schematic Cap lens for 2.20 m installation height.

Detection field for 2.20 m installation height

Size of detection field: 12 m x 12 m. Details refer to an installation height of 2.20 m. Installation to different heights may vary the rated (recommended) detection range.

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Example:

Detection Field Pictorial Schematic

Cap lens for 2.20 m installation height, however, fitted at a height of 1.10 m.

Detection field for 1.10 m installation height:

Size of detection field:

6 m x 6 m.

Details refer to an installation height of 1.10 m.

If pets, such as cats and dogs, are not to be detected, use cap lens for 1.10 m installation height.



For achieving the optimum detection range, install the observer lateral to the walking direction..

Otherwise, losses in detection range must be expected.



Avoid interfering sources, e. g. lamps or heatings within the detection range of the devices. (Refer to chapter 'Application of Slip-On Aperture'.). Never align sensors towards the sun. The high thermal energy may cause irreparable damage to them.

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① Note: When voltage returns (also after re-programming the standard attachment), a time delay of approx. 80 seconds has to be expected until re-starting.

If lighting (B) is switched off, the device may, under unfavourable installation conditions, be re-started due to the detection of the lamps (cooling down, which means different temperature), reflexion of heat radiation from the lighting, or because of too close a spacing between the sensor and the light fitting. In such cases, undesired re-starting can be avoided by extending the preset interlocking time (software function).



5. Installation

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The user module must be plugged onto a bus coupler (A). User interface (D) of the attachment needs to be placed at the bottom as, otherwise, malfunctioning may occur.



Frame (B) must be plugged onto the flush-mounted insert together with sensor part (C). Contacting is effected via a user interface (AST).

Application of Slip-On Aperture

With the aid of the attached slip-on aperture,



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interfering sources can be eliminated by limiting the detection field. The aperture can cover either the left or the right half of the detection field $(90^{\circ} \text{ each})$.



Carefully remove the decoration cover with a screw driver. Attach slip-on aperture (A) to lens system (B). Snap decoration cover (C) onto lens system.

Detection field with attached aperture (A).

(1) gated (covered) area.

(2) detected area.

Cutting the aperture to smaller angles may cause malfunctioning.



6. Adaptation to the Installation Environment

Comfort Attachment (Illustration above)

The comfort attachment can be adapted to the local conditions by means of three potentiometers:



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Carefully remove lower cover (slide switch) by means of a screw driver.

- ① Potentiometer for altering the "additional transmitting delay" software default (time base x factor) by \pm 50 %. Middle position +/-0 = software default. The function of this potentiometer can be deactivated through the software.
- ② Fine adjustment of the twilight stage software default. Adjustable ranges: 3 10 / 10 30 / 30 60 / 60 100 lux The function of this potentiometer can be deactivated through the software.

Comfort and Standard Attachments

③ Potentiometer for continuously adjustable reduction of the maximim detection range from 100% to 20%, independent of the software.



7. Manual Controls

Comfort Attachment

When enabled by the software, the comfort attachment offers the possibility of setting the mode of the device by a slide switch.



In the as-supplied condition, mode selector switch (1) fixed to the AUTO position by a locking screw (2) If the mode is to be selectable by the slide switch, locking screw (2) must be removed. Keep the locking screw in clip (3) the inside of slider (4)

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Pushing slider to position 1 or 0 generates a telegram in dependence upon the software and activates inhibiting. Bringing the slider to AUTO activates automatic operation.

The function of the slide switch can be deactivated through the software.

8. Comfort Attachment Function Test

The comfort attachment has a test function and a diagnostic LED for checking the function of the device and the detection field.

To activate the test function:

- 1. Set potentiometers "time" (1) and "lux" (2) to "Test" mark.
- 2. Make a bus reset or pull off and re-plug the attachment.



When test operation is enabled by the software, the subsequent functions follow:

- No movement telegrams are transmitted.
- When a movement is detected, the diagnostic LED (3) is turned on. It goes out at the end of detection.
- The device works independently of the brightness.
- Master stations and extensions operate independently.
- The delay time of 80 sec. after the application of the bus voltage to the device is omitted.

To deactivate the test function:

1. Inhibit enabling by the software or change the potentiometer setting (\neq Test)

2. Make a bus reset or pull off and re-plug the attachment.

Note: The diagnostic LED can only be seen on attachments with a white lens.

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9. Specifications

Angle of detection:	180°
Class of protection: IP 20	
Ambient temperature:	-5 °C to +45 °C
Connections	
User interface (AST):	2 x 5pole for sensor part

Cap lens for 1.10 m installation height

•	-	
Front rated detection range:	10 m	
Lateral rated detection range:	2 x 6 m	
Installation height for		
rated detection range:	1,10 m	
Numbers of lenses	18	
Lens planes:	2	
Cap lens for 2.20 m installation height		
	· J	
Front rated detection range:	12 m	
•	-	
Front rated detection range:	12 m	
Front rated detection range: Lateral rated detection range:	12 m	
Front rated detection range: Lateral rated detection range: Installation height for	12 m 2 x 6 m	
Front rated detection range: Lateral rated detection range: Installation height for rated detection range:	12 m 2 x 6 m 2,20 m	

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10. Guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

Please return the unit postage paid to our central service department giving note of a brief description of the defect.:

ALBRECHT JUNG GMBH & CO. KG

Service-Center

Kupferstr. 17-19 D-44532 Lünen

Service-Line: 0 23 55 . 80 65 51 Telefax: 0 23 55 . 80 61 89 E-Mail: mail.vki@jung.de

General equipment

Service-Line: 0 23 55 . 80 65 55 Telefax: 0 23 55 . 80 62 55 E-Mail: mail.vkm@jung.de

KNX equipment

Service-Line: 0 23 55 . 80 65 56 Telefax: 0 23 55 . 80 62 55 E-Mail: mail.vkm@jung.de

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