Dítec







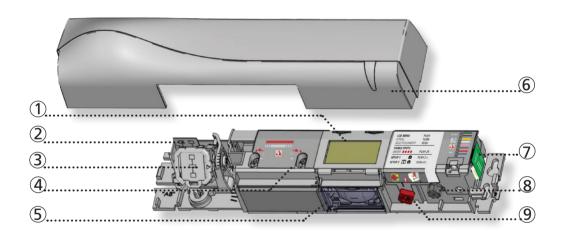
PASO24AMR

OPENING & SAFETY SENSOR FOR AUTOMATIC SLIDING DOORS IN EMERGENCY EXITS

(according to EN 16005 and DIN 18650)

User's Guide for product version 0403 and higher See product label for serial number

DESCRIPTION



- 1. LCD
- 2. radar antenna (narrow field)
- 3. radar antenna (wide field)
- 4. IR-curtain width adjustment
- 5. IR-lenses

- 6. cover
- 7. main connector
- 8. main adjustment knob
- 9. IR-curtain angle adjustment knob

HOW TO USE THE LCD? -

DISPLAY DURING NORMAL FUNCTIONING



Opening impulse



Negative display = active output





To adjust contrast, push and turn the grey button simultaneously. During normal function only.

FACTORY VALUE VS. SAVED VALUE _____



displayed value = factory value



displayed value = saved value

NAVIGATING IN MENUS _



Push to enter the LCD-menu



Enter password if necessary

Not during the first minute after power-on of the sensor.



Select your language before entering the first LCD-menu.

During the first 30 seconds after power-on of the sensor or later in the diagnostics menu.





Select Back to return to previous menu or display.



Select More to go to next level:

- basic settings
- advanced settings
- diagnostics

CHANGING A VALUE



menu

up-down





Push to select parameter



displayed



Scroll values up-down



more values are displayed



Push to save new value



new value is displayed

CHANGING A ZIP CODE



See application note on ZIP CODE



ZIP code E24 1 56 KG4 01 0 800 02F



ZIP coc E24 1 0108



















Validate the last digit in order to activate the new ZIP code:

- v = valid ZIP code, values will be changed accordingly
- x = invalid ZIP code, no values will be changed
- -v/x = valid ZIP code, but from a different product. Only available values will be changed.

VALUE CHECK WITH REMOTE CONTROL _

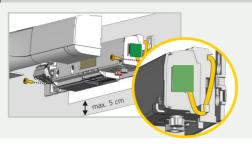




Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen. Do not unlock first.

PAS024AMR: INSTALLATION GUIDE

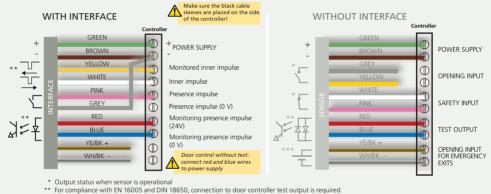
MOUNTING



IMPORTANT!

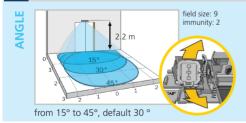
The radar output parameter has to be set to « current output « (factory value).

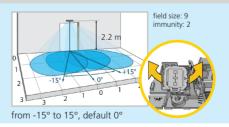
2 WIRING

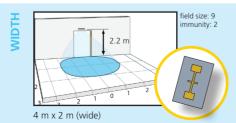


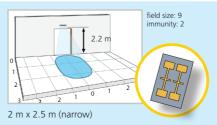
- ***Current source output for emergency exits

RADAR OPENING IMPULSE FIELD







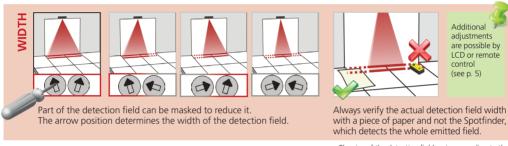


4 INFRARED SAFETY FIELD DOOR OR Activate the visible* spots to verify If necessary, adjust the IR-curtain

angle (from -7° to 4°, default 0°).

* Visibility depends on external conditions. When spots are not visible, use the Spotfinder to locate the curtains.

** The distance between the inner curtain of the inside door sensor and the inner curtain of the outside door sensor should always be smaller than 20 cm. The distance to the door leaf depends therefore on the tikness of the door leaf.

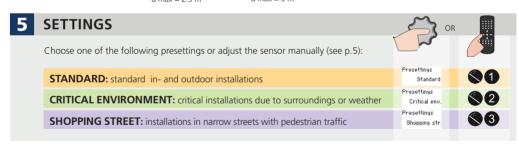


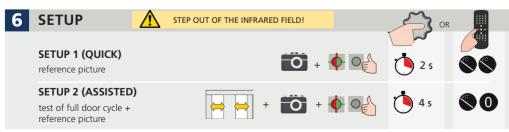
| Mounting height | Detection width | DIN 18650 3.50 m | EN 16005 3.50 m |
|--|--|------------------|-----------------|
| 2.00 m 2.20 m 2.50 m 3.00 m 3.50 m | 2.00 m 2.20 m 2.50 m d max d max | 2.50 m | 2.50 m 2 m |

the position of the IR-curtain.

The size of the detection field varies according to the mounting height and the settings of the sensor.

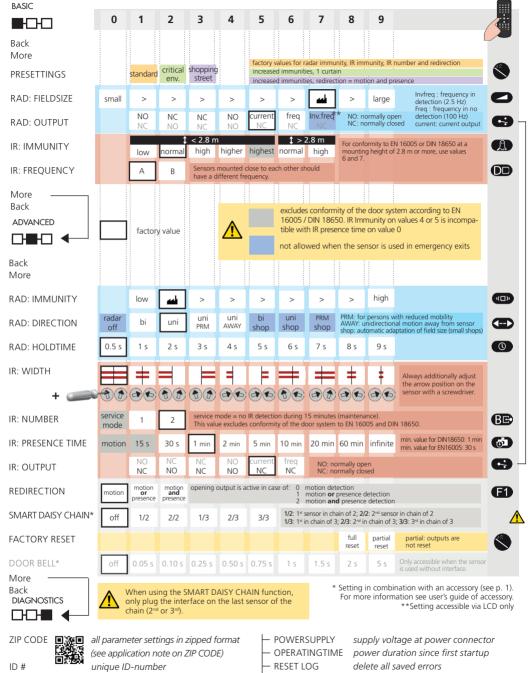
The full door width must be covered.







OVERVIEW OF SETTINGS



TROUBLESHOOTING _____

| E1 - | ORANGE LED flashes 1 x. | The sensor signals an internal fault. | 1 Replace sensor. |
|-------------|---|---|---|
| E2 -2 | ORANGE LED flashes 2 x. | The power supply is too low or too high. | 1 Check power supply (in the diagnostics menu of the LCD). 2 Check wiring. |
| E4 🗘 | ORANGE LED flashes 4 x. | The sensor receives not enough IR-energy. | Decrease the angle of the IR-curtains. Increase the IR-immunity filter (values >2.8 m). Deactivate 1 curtain. |
| E5 5 | ORANGE LED flashes 5 x. | The sensor receives too much IR-energy. | 1 Slightly increase the angle of the IR-curtains. |
| | | The sensor is disturbed by external elements. | 1 Eliminate the cause of disturbance (lamps, rain cover, door controller housing properly grounded). |
| E6 -6 | ORANGE LED flashes 6 x. | Faulty radar sensor output | 1 Replace sensor. |
| E7 7 | ORANGE LED flashes 7 x. | The internal test of the radar is disturbed. | Change radar field angle or antenna. Launch a quick setup. If orange LED flashes again, replace sensor. |
| E8 -8 | ORANGE LED flashes 8 x. | IR power emitter is faulty. | 1 Replace sensor. |
| E9 9 | ORANGE LED flashes 9 x. | Internal reference of the radar is faulty. | 1 Replace sensor. |
| | ORANGE LED is on. | The sensor encounters a memory problem. | 1 Cut and restore power supply. 2 If orange LED lights up again, replace sensor. |
| * | RED LED flashes quickly after an assisted setup. | The sensor sees the door during the assisted setup. | Move the IR-curtains away from the door. Install the sensor as close to the door as possible. If needed, use a bracket accessory. Launch a new assisted setup. |
| | RED LED lights up sporadically. | The sensor vibrates. | Check if the sensor is fastened firmly. Check position of cable and cover. |
| | | The sensor sees the door. | 1 Launch an assisted setup and adjust the IR angle. |
| | | The sensor is disturbed by external conditions. | Increase the IR-immunity filter to value 3.Select presetting 2 or 3. |
| | GREEN LED lights up sporadically. | The sensor is disturbed by rain and/or leaves. | Select presetting 2 or 3. Increase radar-immunity filter. |
| | | Ghosting created by door movement. | 1 Change radar field angle. |
| | | The sensor vibrates. | Check if the sensor and door cover is fastened firmly. Check position of cable and cover. |
| | | The sensor sees the door or other moving objects. | 1 Remove the objects if possible.2 Change radar field size or angle. |
| | The LED and the LCD-display are off. | | 1 Check wiring. |
| | The reaction of the door does not correspond to the LED-signal. | | Check output configuration setting. Check wiring. |
| | The LCD or remote control does not react. | The sensor is protected by a password. | 1 Enter the right password. If you forgot the code, cut and restore the power supply to access the sensor without entering a password during 1 minute. |
| | | | |

LED-SIGNAL











LED flashes red-green



LED flashes quickly



LED is off

INSTALLATION



The sensor should be fixed firmly to avoid extreme vibrations.



Do not cover the sensor.



Avoid moving objects and light sources in the detection field.



Avoid highly reflective objects in the infrared field.

MAINTENANCE



It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.



Do not use aggressive products to clean the optical parts.

SAFETY



The door control unit and the door cover profile must be correctly earthed.



Only trained and qualified personnel may install and setup the sensor.



Always test the good functioning of the installation before leaving the premises.



The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.



- The device cannot be used for purposes other than its intended use. All other uses cannot be quaranteed by the manufacturer of the sensor.
- The manufacturer of the door system is responsible for carrying out a risk assessment and installing the sensor and the door system in compliance with applicable national and international regulations and standards on door safety.
- The manufacturer of the sensor cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.

TECHNICAL SPECIFICATIONS

| | | * The Equipment must be powered by a SELV limited power source ensuring double insulation between pri- | |
|-----------------------|---|--|--|
| Supply voltage: | 12 V - 24 V AC +/-10% ; 12 V - 30 V DC +/-10% | mary voltages and the Equipment supply. The supply | |
| Power consumption: | < 2.5 W | current should be limited to max 3A. | |
| Mounting height: | 2 m to 3.5 m | | |
| Temperature range: | -25°C to +55°C; 0-95% relative humidity, non condensing | | |
| Degree of protection: | IP54 | | |
| Noise: | < 70 dB | | |
| Expected lifetime: | 20 years | | |

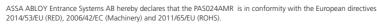
| | ⊕ → → → → → → → → → → → → → → → → → → → | |
|---|---|---|
| Detection mode: | Motion Min. detection speed: 5 cm/s | Presence Typical response time: < 200 ms (max. 500 ms) |
| Technology: | Microwave doppler radar Transmitter frequency: 24.150 GHz Transmitter radiated power: < 20 dBm EIRP Transmitter power density: < 5 mW/cm ² | Active infrared with background analysis Spot: 5 cm x 5 cm (typ) Number of spots: max. 24 per curtain Number of curtains: 2 |
| Output PAS024AMR: (sensor + interface) | Open-collector transistor Max. sink current: 20 mA | Solid-state-relay Max. contact current: 100 mA Max. contact voltage: 42 V AC/DC Holdtime: 0.3 to 1 s |
| Output PAS024AMT: (sensor only) | Solid-state-relay (potential and polarity free) Max. contact current: 100 mA Max. contact voltage: 42 V AC/DC - in switching mode: NO/NC - in frequency mode: pulsed signal (f= 100 Hz +/- 10%) - in inverted frequency mode: pulsed signal in detection (f = 2.5 Hz) Galvanically isolated current source No detection: current source ON Open circuit voltage: 6.5 V Output voltage available at 10 mA: 3 V min. Typical load: up to 3 optocouplers in series Detection: current source OFF Open-circuit remained voltage: < 500 mV | Solid-state-relay (potential and polarity free) Max. contact current: 100 mA Max. contact voltage: 42 V AC/DC Holdtime: 0.3 to 1 s |
| Test input: | | Sensitivity: Low: < 1 V; High: > 10 V (max. 30 V) Response time on test request: typical: < 5 ms The external monitoring is active by default |
| Safety Standards: | | EN ISO 13849-1 PL «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle) |
| | | EN 16005 (protective devices) DIN 18650-1 (protective devices) EN 12978 |

Specifications are subject to changes without prior notice. All values measured in specific conditions.

ASSA ABLOY Entrance Systems AB - Lodjursgatan 10 - SE-261 44 Landskrona - Sweden - www.ditecautomations.com







Notified Body for EC-type inspection: 0044 - TÜV NORD CERT GmbH, Langemarckstr. 20, D-45141 Essen EC-type examination certificate number: 44 205 13089624

Landskrona, february 2021 Matteo Fino, authorized representative and responsible for technical documentation This product should be disposed of separately from unsorted municipal waste