PrimeTec B PrimeScan B

Please keep for further use!

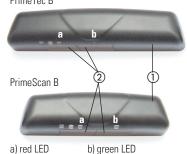
Smart Access

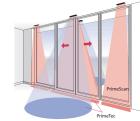
Combined detector AIR/Radar for opening and protecting automatically controlled sliding doors

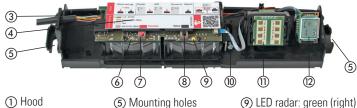
Translation of the original instructions

General

PrimeTec B







- (1) Hood
- (2) AIR light window
- 3 Cable bushing
- (4) Short Guide
- (5) Mounting holes
- (6) LED AIR: red (left) (10) AIR adjustment screw
- (7) Button function (red) (11) Radar module
- (8) Button value (black)

(12) LCD display

Safety instructions

- · Read these operating instructions thoroughly before putting the device into operation and keep them for future reference.
- This product is designed to be mounted above an overhead pedestrian door
- Do not use this product other than for its specified application.
- Only trained and qualified personnel may install and initialize the device.
- It is the responsibility of the equipment installer to carry out a risk assessment and to install the system, in compliance with applicable local, national and international regulations, safety standards, codes and laws as well as the Machinery Directive 2006/42/EC, should this apply.
- Always consider the safety functions of your applications as a whole, never just in relation to one individual section of the system.
- The installer is responsible for testing the system to ensure it meets all applicable safety standards.
- Safety devices that are classified as Category 2 according to EN ISO 13849-1 must be tested regularly - at least once per cycle.
- If the safety device is not requested operationally at least once a year, it must be checked manually by the operator at least once a year.
- The sensor should only be operated from a safety extra low voltage (SELV) system with safe electrical separation according to EN 61558. The wiring must be protected against mechanical damage.
- Avoid touching any electronic and optical components.
- . The door drive and the transom must be properly earthed.











Start-up

1

Recommended start-up sequence: (1) Mounting (2) Connection (3) Initialisation

2 Mounting

- 1. Remove cover hood
- 2. Set AIR field width (see chapter 2.1)

- 3. Lay and connect cable
- 4. Mount detector

2.1 Setting the AIR field width (PrimeTec / PrimeScan)

The width of the AIR field can be set using the click-in plastic cover in front of the detector's lens

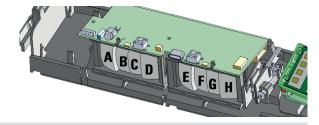




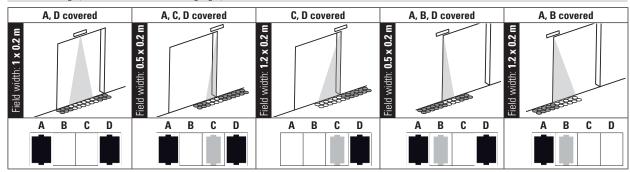
Field width: 2.0 m x 0.2 m at 2.2 m



1. Slide 2. Push & click!

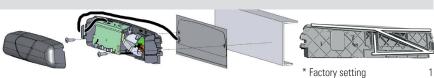


Possible settings (Dimensions at 2.2 m mounting hight):



2.2 Mounting the detector

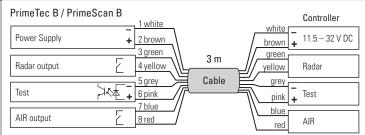
- 1. Position drill template
- 2. Drill the holes, remove drill template
- 3. Lay cable and mount detector





3 Electrical connections

Connecting ©



4 Initialisation

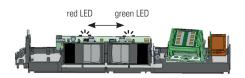
3

Initialisation

Remove all objects that do not form part of the usual door system environment from the door area BEFORE switching on the power supply. Ensure that no people are in the door area, otherwise correct startup will not be possible.

The alternate flashing shows the initialisation (teaching) of the detector. (Duration 20 - 25 seconds) During startup, the firmware version FXXX is displayed.

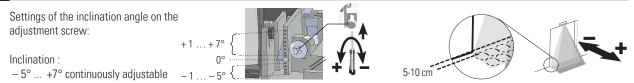
Following initialisation, the red/green LED only illuminates when a detection has occurred.



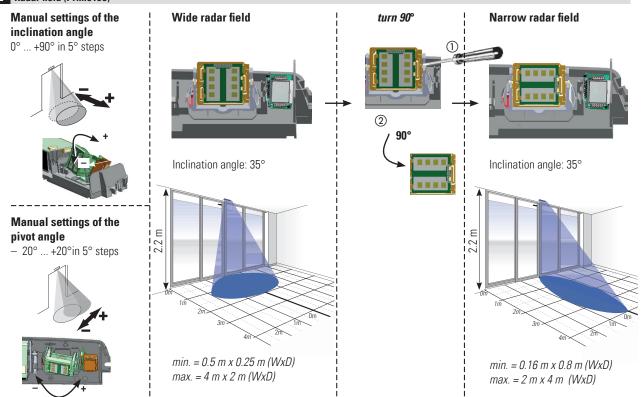
The door system is now operational at this point. If any further settings are required, proceed as described in the following sections.

5 Mechanical fine tuning

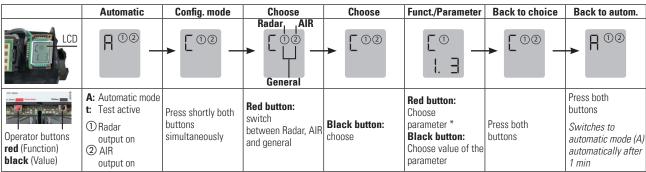
5.1 AIR field (PrimeTec / PrimeScan)



5.2 Radar field (PrimeTec)



6 Configuration using programming buttons (Operator buttons)



Radar functions (PrimeTec)		0PERAT10	OPERATION OF THE BUTTONS ¹	TONS1	DESCRIPTION
)		Function (red)	Value (black)	<i>0</i> 27	
Field size		-	1 - 5	⊕ m	\bigcirc = Smallest radar field, \bigcirc , \bigcirc * = Medium radar field, \bigcirc , \bigcirc = Largest radar field
Direction recognition	†	2	1-2	الم الما	
Cross Traffic Optimisation CTO	*	4	1-2	⊕ <u></u>	$\bigcirc^* = 0$ ff \bigcirc = 0n (recommended only at narrow field)
Door filter	→→ →→	9	1-2		\bigcirc^* = Filter off, \bigcirc = Door and interference filter on (EMV flows, e.g. fluorescence tube)
Radar output	7 7	7	1-2	<u>⊖</u>	\bigcirc * = active (NO) \bigcirc = passive (NC)

The Slow Motion Detection (SMD) is a factory setting. The SMD recognises slow motions after the detecor has been activated.

AIR functions (PrimeTec / PrimeScan) (2)		OPERATION	N OF THE BUTTONS	TONS1	DESCRIPTION
		Function (red)	Value (black)	<i>0</i> 27	
Set sensitivity		—	ر ا ت	⊚ m	
Set teach-in time		2	_ ក	[⊙ n]	$(1) = 10 \text{ s}$ $(2)^* = 30 \text{ s}$ (acc. to EN 16005) $(3) = 60 \text{ s}$ (acc. to DIN 18650 + AS 5007) $(4) = 180 \text{ s}$ $(5) = 15 \text{ min}$
AIR output contact logic	7 /	က	1 – 4	⊚ ru	(D) I = active (NO) Contact open (NC) (NC)
AIR output		4	1 – 2	∅–	$(1)^* = 0$ n $(2)^* = 0$ ff (AIR is going to be reactivated automatically after 15 minutes)

General functions (PrimeTec / PrimeScan) (1) (2)	2)	OPERATION (IN OF THE BUTTONS	TONS	DESCRIPTION	
)	Function (red)	Function (red) Value (black)	a D T		
Reset	→	Press both buttons	tons 8 seconds		Initialisaiton and teaching of the background	
Presetting (After presetting and leaving config. a reset will be done automatically)	\$0\$\$0\$	-	1 – 8 Press value for 1 second to change the presetting		(a) = Standard, (2) = footpath, (3) = home for the aged, (4) = wind screen, (5) = high door, (6) = narrow door, (7) = wide door, (8) = factory settings	For all values set, parameter 0 is displayed
Combined outputs activated / not activated	•*	2	1 – 2	[100] [10]	\bigcirc = activated (radar and AIR actuate the radar output) \bigcirc^* = not activated	
AIR-frequency (In the case of overlapping AIR fields consider the addressing order: → odd nr. 1 → even nr. 2→ odd nr. 3)	VVV	3	1 – 6	[00]	\bigcirc = Frequency 1, \bigcirc = Frequency 2, \bigcirc = Frequency 3, \bigcirc = Frequency 4, \bigcirc = Frequency 5, \bigcirc = Frequency 6	requency 5,

1 Press both buttons shortly for configuration mode

*Factory setting

7 Remedying malfunctions

7.1 Remedying false tripping

red LED	green LED	Fault	Remedy
		Dodor tripping when door is alsoing	1. Set angle of radar further away from the door.
		Radar tripping when door is closing	2. Adjust radar field size.
	continuously		1. Avoid light sources (e.g. fluorescent tubes) in the immediate vicinity of the detector.
illuminated	lit	Radar false tripping without	2. No moving objects (plants, advertising posters, etc.) in the vicinity of the detector.
		apparent external influence	3. Avoid strong vibration at the radar detector
			4. Possible influence from a second radar detector in the vicinity (very unlikely)
		AIR tripping when door is closing	Set angle of AIR detector further away from the door
			1. Avoid light sources (e.g. fluorescent tubes) in the immediate vicinity of the detector.
continuously lit		l l	2. Avoid puddles of water on the ground.
	not	AIR false tripping without apparent	3. Avoid strong vibration at the AIR detector.
	illuminated	external influence	4. Influence of overlapping AIR field from another detector.
			Set new Reglobeam address or CAN bus address.
			5. Reduce sensitivity of the AIR (increase value).
not	not	Door stays open	Switch AIR exit contact logic to other value
illuminated	illuminated	Duul stays upeli	1. OWITCH / HIT OAK CONTACT TOGIC TO CHICK VALIDO

7.2 Remedying detector malfunctions

red LED	green LED		Fault	Remedy
flashing	flashing	E ¹	1: Self test (RAM/ROM) 2: Watchdog	 Disconnect device from supply voltage Restart device If device displays fault again or does not start → renew device
flashing	not illuminated	E ²	5: AIR fault 6: AIR output fault	 Disconnect device from supply voltage Clean optics-cover and check for scratches Restart device If device displays fault again or does not start → renew device

8 Technical data

Technology	Active infrared (wavelength: 880 nm), radar double field module → PrimeTec (24.125 GHz)	
Number of IR spots	24	
IR spot dimensions	3 cm x 3 cm (at 2.2 m mounting height)	
Response time	< 200 ms	
Mounting height	$1.8 - 4 \mathrm{m}$	
Angle setting of IR spots	−5° +7° continuously adjustable	
Operating voltage	PrimeTec B ES: 11.5-32 V DC; PrimeTec B ES/02: 12-32 V DC / 11-28 V AC, 50/60 Hz	
Operating voltage	PrimeScan B: 11.5–32 V DC	
Operating current	max. 120 mA	
Power consumption	max. 4 W	
Making current	max. 240 mA	
Output (AIR / Radar)	Semiconductor relay: Switching voltage: max. 24 V AC / 34 V DC, contact resistance: max.10 Ω	
	Switching current: max. 40 mA, switching capacity: max. 500 mW AC/DC	
Protection type	IP54	
Operating temperature	−20° 60° C	
Dimensionsn	PrimeTec: 260 x 60 x 48.5 mm (LxWxD), PrimeScan: 216 x 60 x 47.5 mm (LxWxD)	
Weight	PrimeTec: 250 g, PrimeScan: 180 g	
Estimated economic life-time	20 years	

9 EU Declaration of Conformity



See attachment

10 WEEE



Devices with this symbol must be treated separately during disposal. This must be done in accordance with the laws of the respective countries for environmentally sound disposal, processing and recycling of electrical and electronic equipment.

11 FCC approval



This device meets the requirements of Part 15 of the FCC regulations and the RSS-210 standard of Industry Canada.

Warning: Changes or modifications made to this device may void the FCC authorisation to operate this device.

12 Contact

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