

# PrimeTec B PrimeScan B

Please mind the original manual!

BBC  
**BIRCHER**

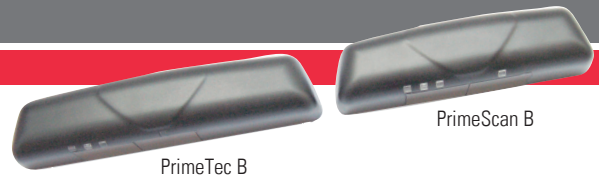
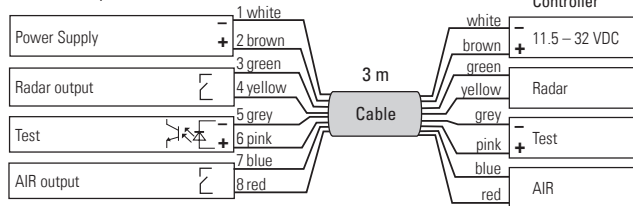
Smart Access

299140E  
04/20

## Short guide

### Electrical connections

PrimeTec B / PrimeScan B



### Configuration using programming buttons (Operator buttons)

	Automatic	Config. mode	Choose	Choose	Funct./Parameter	Back to choice	Back to autom.
	<b>A:</b> Automatic mode <b>t:</b> Test active ① Radar output on ② AIR output on	Press shortly both buttons simultaneously	<b>Red button:</b> switch between Radar, AIR and general	<b>Black button:</b> choose	<b>Red button:</b> Choose parameter <b>Black button:</b> Choose value of the parameter	Press both buttons	Press both buttons <i>Switches to automatic mode (A) automatically after 1 min</i>

Radar functions (PrimeTec) ①		OPERATION OF THE BUTTONS <sup>1</sup>			DESCRIPTION
		Function	Value	LCD	
Field size		1	1 - 5		① = Smallest radar field, ② ..... ③* = Medium radar field, ④ ..... ⑤ = Largest radar field
Direction recognition		2	1 - 2		① = both directions ②* = forward
Cross Traffic Optimisation CTO (Cross Traffic Optimisation)		4	1 - 2		①* = Off ② = On (recommended only at narrow field)
Door filter		6	1 - 2		①* = Filter off ② = Door and interference filter on (EMV flows, e.g. fluorescence tube)
Radar output		7	1 - 2		①* = active ② = passive

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

AIR functions (PrimeTec / PrimeScan) ②		OPERATION OF THE BUTTONS <sup>1</sup>			DESCRIPTION
		Function	Value	LCD	
Set sensitivity		1	1 - 5		① = high sensitivity (acc. to EN 16005 ≤ 3m, only indoors) ② = medium sensitivity (acc. to EN 16005 ≤ 3m) ④ = low sensitivity (acc. to EN 16005 ≤ 2.3m) ③* = normal sensitivity (acc. to EN 16005 ≤ 2.6m) ⑤ = very low sensitivity
Set teach-in time		2	1 - 5		① = 10 s ②* = 30 s (acc. to EN 16005) ③ = 60 s (acc. to DIN 18850 + AS 5007) ④ = 180 s ⑤ = 15 min
AIR output contact logic		3	1 - 4		① = active (NO) no detection contact open ②* = passiv (NC) no detection contact closed Series connection Settings: Master ① → Slave ③, Master ② → Slave ④ Wiring: See series connection diagram: <a href="http://reglomat.bircher.com/en/products-technologies/primefamily-b">reglomat.bircher.com/en/products-technologies/primefamily-b</a>
AIR output		4	1 - 2		①* = On ② = Off (AIR is going to be reactivated automatically after 15 minutes)

General functions (PrimeTec / PrimeScan) ① ②		OPERATION OF THE BUTTONS <sup>1</sup>			DESCRIPTION
		Function	Value	LCD	
Reset		Press both buttons 8 seconds			Initialisaiton and teaching of the background
Presetting (After presetting and leaving config. a reset will be done automatically)		1	1 - 8 Press value for 1 second to change the presetting		① = Standard, ② = footpath, ③ = home for the aged, ④ = wind screen, ⑤ = high door, ⑥ = narrow door, ⑦ = wide door, ⑧ = <b>factory settings</b> For all values set, parameter 0 is displayed
Combined outputs activated / not activated		2	1 - 2		① = activated (radar and AIR actuate the radar output) ②* = not activated
AIR-frequency (In the case of overlapping AIR fields consider the addressing order: → odd nr. 1 → even nr. 2 → odd nr. 3)		3	1 - 6		①* = Frequency 1 ③ = Frequency 3 ⑤ = Frequency 5 ② = Frequency 2 ④ = Frequency 4 ⑥ = Frequency 6 In the case of overlapping AIR fields consider the frequency order: → odd number ① → even number ② → odd number ③

<sup>1</sup> Press both buttons shortly for configuration mode / \* Factory setting

### Presetting

	Standard	Foot path	Home for the aged	Wind screen	High door	Narrow door	Wide door	Factory settings
Radar field size	3	3	3	2	4	2	5	3
Field geometry <sup>2</sup>	wide	narrow	wide	wide	wide	narrow	wide	wide
Cross Traffic Optimisation	1	2	1	1	1	1	1	1

<sup>2</sup> Field geometry has to be set manually

## Initialisation

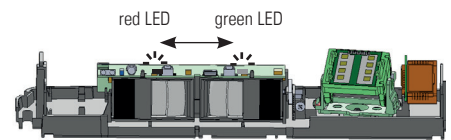


Remove all objects that do not form part of the usual door system environment from the door area **BEFORE** switching on the power supply. Ensure that no people are in the door area, otherwise correct startup will not be possible.

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.

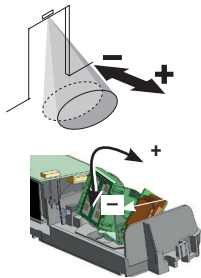


## Mechanical fine tuning

### Radar field (PrimeTec)

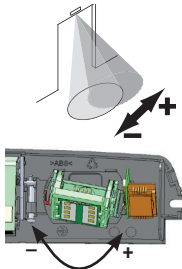
#### Manual settings of the inclination angle

0° ... +90° in 5° steps

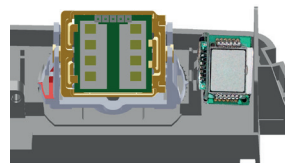


#### Manual settings of the pivot angle

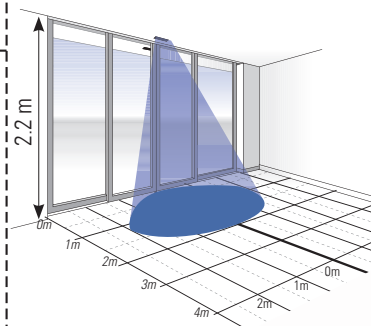
-20° ... +20° in 5° steps



#### Wide radar field

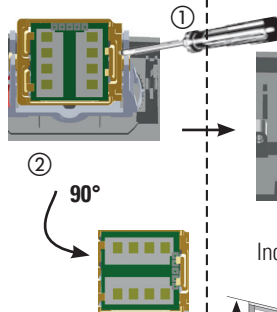


Inclination angle: 35°

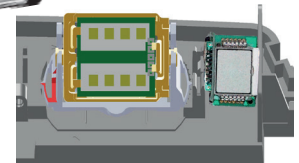


min. = 0.5 m x 0.25 m (WxD)  
max. = 4 m x 2 m (WxD)

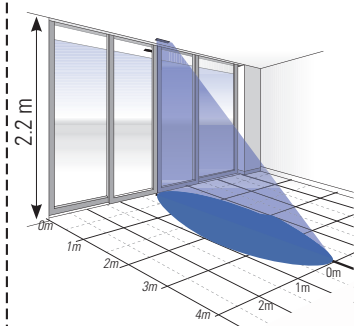
#### turn 90°



#### Narrow radar field



Inclination angle: 35°



min. = 0.16 m x 0.8 m (WxD)  
max. = 2 m x 4 m (WxD)

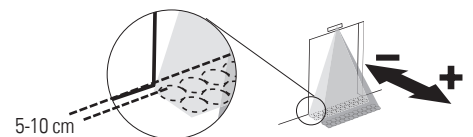
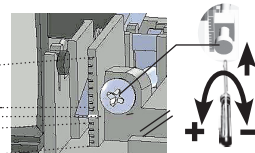
### AIR field (PrimeTec / PrimeScan)

Settings of the inclination angle on the adjustment screw:

Inclination:

-5° ... +7° continuously adjustable

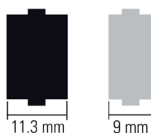
+1 ... +7°  
0°  
-1 ... -5°



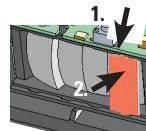
### Setting the AIR field width (PrimeTec / PrimeScan)

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

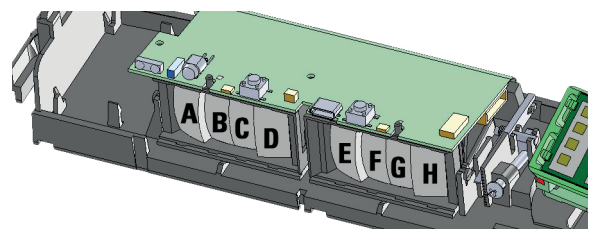
\* Detector without cover:  
All light beams are active



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 height):

A, D covered	A, C, D covered	C, D covered	A, B, D covered	A, B covered
Field width: 1 x 0.2 m	Field width: 0.5 x 0.2 m	Field width: 1.2 x 0.2 m	Field width: 0.5 x 0.2 m	Field width: 1.2 x 0.2 m
A B C D	A B C D	A B C D	A B C D	A B C D