SWISSDOOR
DØRTEKNIK FOR PROFESSIONELLE

BIRCHER
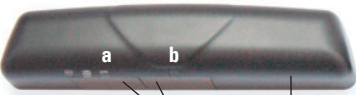### Reglomat

PrimeTec B
PrimeScan B

Please keep for further use!

Combined detector AIR/Radar for opening and protecting automatically controlled sliding doors
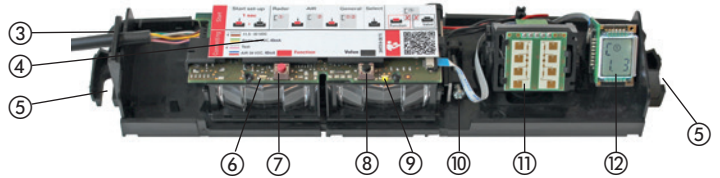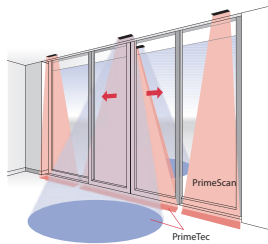
Translation of the original instructions

General

PrimeTec B

a   b

PrimeScan B

a   b

a) red LED   b) green LED

② ①

PrimeScan

PrimeTec

③
④
⑤

⑥ ⑦   ⑧ ⑨   ⑩   ⑪   ⑫   ⑤

① Hood
② AIR light window
③ Cable bushing
④ Short Guide

⑤ Mounting holes
⑥ LED AIR: red (left)
⑦ Button function (red)
⑧ Button value (black)

⑨ LED radar: green (right)
⑩ AIR adjustment screw
⑪ Radar module
⑫ LCD display

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1   Safety instructions

⚠

- Consider the national and international regulations on door safety.
- Only trained, qualified personnel may mount and start up the detector.
- The unit may only be opened and repaired by Bircher Reglomat.
- The unit may only be operated from a safety extra-low voltage (SELV) system with safe electrical separation.
- Always consider the safety functions of your application as a whole, never just in relation to one individual section of the system.

- The installer is responsible for carrying out a risk assessment and installing the detector and the door system correctly.
- Avoid touching any electronic components.
- The door drive and transom profile must be grounded correctly.
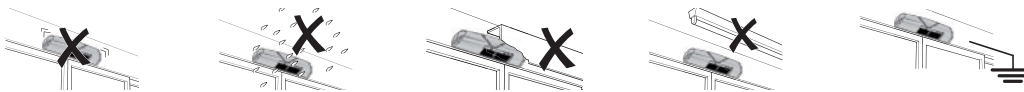
Start-up

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

2   Mounting

①

Mounting

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

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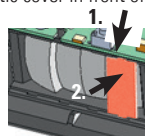**4.** Mount detector

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.
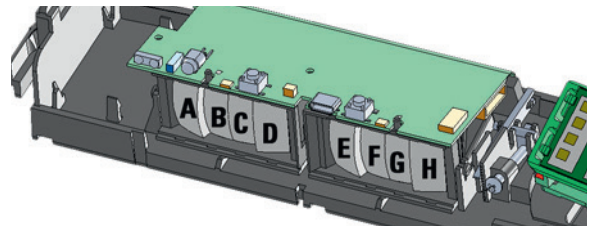
* Detector without cover:
All light beams are active

11.3 mm   9 mm
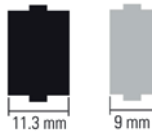
Field width:
2.3 m x 0.2 m
at 2.2 m

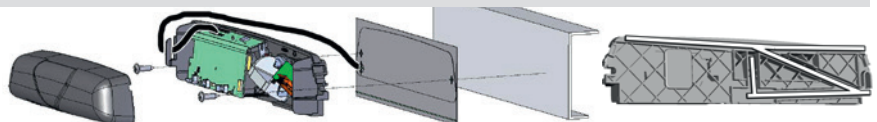1.
2.

1. Slide
2. Push & click!

A B C D
E F G H

Possible settings (Dimensions at 2.2 m mounting hight):

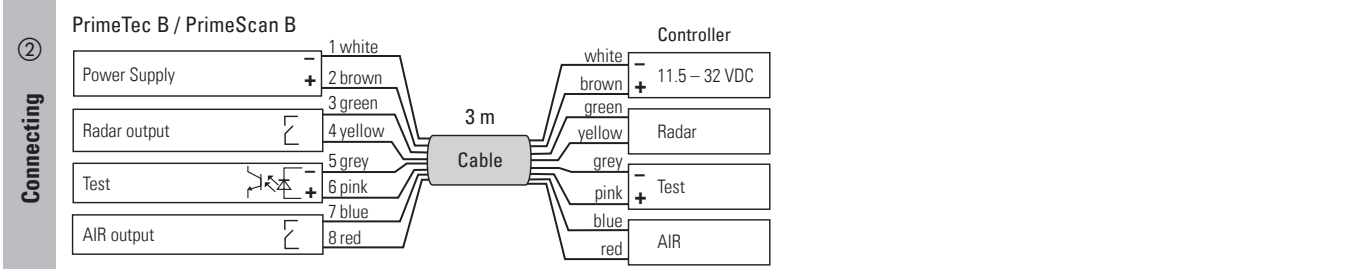| A, D covered	A, C, D covered	C, D covered	A, B, D covered	A, B covered
Field width: 1 x 0.2 m	Field width: 0.5 x 0.2 m	Field width: 1.2 x 0.2 m	Field width: 0.5 x 0.2 m	Field width: 1.2 x 0.2 m
A B C D	A B C D	A B C D	A B C D	A B C D

2.2   Mounting the detector

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

PrimeTec B / PrimeScan B

PrimeTec B / PrimeScan B		Controller

Power Supply — / + | 1 white / 2 brown
Radar output | 3 green / 4 yellow
Test | 5 grey / 6 pink
AIR output | 7 blue / 8 red

3 m Cable

Controller:
white − / brown + | 11.5 – 32 VDC
green / yellow | Radar
grey − / pink + | Test
blue / red | AIR

(left margin: ② Connecting)

| 4 | Initialisation |

(left margin: 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.

red LED   green LED

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.
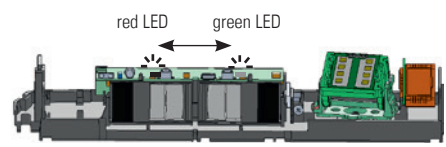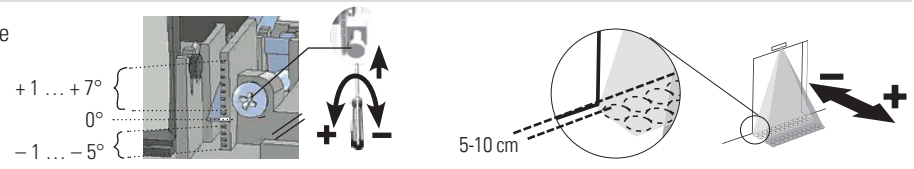
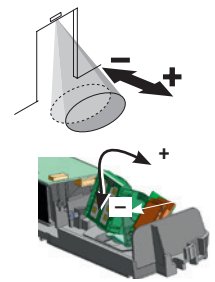| 5 | Mechanical fine tuning |

| 5.1 | AIR field (PrimeTec / PrimeScan) |

Settings of the inclination angle on the adjustment screw:

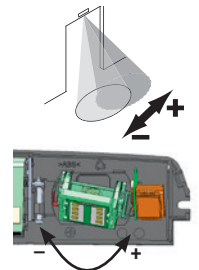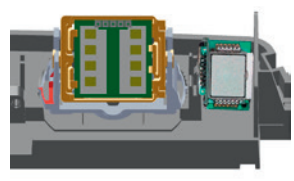Inclination :
− 5° ... +7° continuously adjustable

+ 1 ... + 7°
0°
− 1 ... − 5°

5-10 cm

| 5.2 | Radar field (PrimeTec) |

Manual settings of the inclination angle
0° ... +90° in 5° steps

Wide radar field

Inclination angle: 35°

turn 90°

① ② 90°

Narrow radar field

Inclination angle: 35°

Manual settings of the pivot angle
− 20° ... +20°in 5° steps

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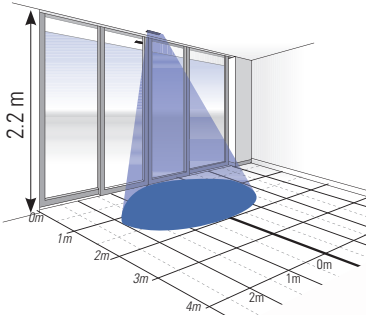
min. = 0.5 m x 0.25 m (WxD)
max. = 4 m x 2 m (WxD)

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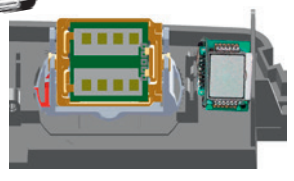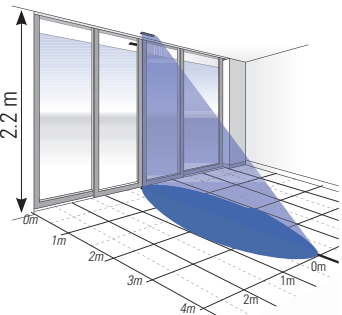
min. = 0.16 m x 0.8 m (WxD)
max. = 2 m x 4 m (WxD)

| 6 | Configuration using programming buttons (Operator buttons) |

	Automatic	Config. mode	Choose	Choose	Funct./Parameter	Back to choice	Back to autom.
LCD	A ①②	⊏ ①②	⊏ ①② Radar / AIR / General	⊏ ①②	⊏ ① 1.3	⊏ ①②	A ①②
Operator buttons red (Function) black (Value)	**A:** Automatic mode **t:** Test active ① Radar output on ② AIR output on	Press shortly both buttons simultaneously	**Red button:** switch between Radar, AIR and general	**Black button:** choose	**Red button:** Choose parameter * **Black button:** Choose value of the parameter	Press both buttons	Press both buttons *Switches to automatic mode (A) automatically after 1 min*

* Value is going to be saved by switching to other parameters

Radar functions (PrimeTec) ①

Function		OPERATION OF THE BUTTONS¹			DESCRIPTION
		Function (red)	Value (black)	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		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 (NO), ② = passive (NC)

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

Function		OPERATION OF THE BUTTONS¹			DESCRIPTION
		Function (red)	Value (black)	LCD	
Set sensitivity		1	1 – 5		① = high sensitivity (acc. to EN16005 ≤ 3m, only indoors), ② = medium sensitivity (acc. to EN16005 ≤ 3m), ③* = normal sensitivity (acc. to EN16005 ≤ 2.6m), ④ = low sensitivity (acc. to EN16005 ≤ 2.3m), ⑤ = very low sensitivity
Set teach-in time		2	1 – 5		① = 10 s, ②* = 30 s, ③ = 60 s, ④ = 180 s, ⑤ = 15 min
AIR output contact logic		3	1 – 4		① = active (NO) no detection contact open, ②* = passive (NC) no detection contact closed — Series connection: Settings Master ① → Slave ③, Master ② → Slave ④ — Wiring: See series connection diagram: reglomat.bircher.com/en/products-technologies/primefamily-b
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

Function		OPERATION OF THE BUTTONS¹			DESCRIPTION
		Function (red)	Value (black)	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 = factory settings — *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, ② = Frequency 2, ③ = Frequency 3, ④ = Frequency 4, ⑤ = Frequency 5, ⑥ = Frequency 6

¹ Press both buttons shortly for configuration mode

*Factory setting

7.1 Remedying false tripping

red LED 🔴	green LED 🟢	Fault	Remedy
not illuminated	continuously lit	Radar tripping when door is closing	1. Set angle of radar further away from the door.
			2. Adjust radar field size.
		Radar false tripping without apparent external influence	1. Avoid light sources (e.g. fluorescent tubes) in the immediate vicinity of the detector.
			2. No moving objects (plants, advertising posters, etc.) in the vicinity of the detector.
			3. Avoid strong vibration at the radar detector
			4. Possible influence from a second radar detector in the vicinity (very unlikely)
continuously lit	not illuminated	AIR tripping when door is closing	1. Set angle of AIR detector further away from the door
		AIR false tripping without apparent external influence	1. Avoid light sources (e.g. fluorescent tubes) in the immediate vicinity of the detector.
			2. Avoid puddles of water on the ground.
			3. Avoid strong vibration at the AIR detector.
			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 illuminated	not illuminated	Door stays open	1. Switch AIR exit contact logic to other value

7.2 Remedying detector malfunctions

red LED 🔴	green LED 🟢	Fault	Remedy
flashing	flashing	E ① 00 1/2 — 1: Self test (RAM/ROM) 2: Watchdog	1. Disconnect device from supply voltage 2. Restart device 3. If device displays fault again or does not start ➔ renew device
flashing	not illuminated	E ② 005/6 — 5: AIR fault 6: AIR output fault	1. Disconnect device from supply voltage 2. Clean optics-cover and check for scratches 3. Restart device 4. If device displays fault again or does not start ➔ renew device

8   **Technical data**

Technology	Active infrared (wavelength: 880nm), 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 m
Angle setting of IR spots	$-5°\ ...\ +7°$ continuously adjustable
Power Supply	≤ 120 mA @ 11.5 ... 32 VDC
Power consumption	< 4 Watt
Making current	≤ 240 mA
Output (AIR / Radar)	Semiconductor relay: max. contact voltage 24 VAC / 34 VDC, max. contact resistance: 10 Ω max. load current 40 mA, max switching capacity: 500 mW (AC) / 500 mW (DC)
Protection type	Suitable for use acc. to IP54
Operating temperature	-20° ... 60° C
Dimensionsn	PrimeTec: 260 x 60 x 48.5mm (LxWxD), PrimeScan: 216 x 60 x 47.5mm (LxWxD)
Weight	PrimeTec: 250g, PrimeScan: 180g
Estimated economic life-time	20 years

9   **Declaration of conformity, identification of the year of manufacture by means of the serial number**

9.1 Declaration of conformity

Manufacturer:	Bircher Reglomat AG, Wiesengasse 20, CH-8222 Beringen
Authorised rep:	Bircher Reglomat GmbH, Robert Bosch Strasse 3, D-71088 Holzgerlingen
Following directives have been observed:	Manchinery directive 2006/42/EC, RoHS-Directive 2011/65/EU, R&TTE-Directive 1999/5/EC until 12.06.2016, RED 2014/53/EU starting 13.06.2016, EMC-Directive 2004/108/EC until 19.04.2016, EMC-Directive 2014/30/EU starting 20.04.2016
Following standards have been taken into account:	EN16005:2012, BS7036-1:1996, BS7036-2:1996, EN ISO 13849-1:2008, EN12978:2003+A1:2009
EC type-examination certificate:	44/205/12/403013-003
Notified inspection centre:	TÜV NORD CERT, NB 0044
Signee:	Head of Sales & Marketing Damian Grand / Head of Operations Daniel Nef
Product variant:	PrimeTec B ES, PrimeTec B ES/01, PrimeTec B ES/02, PrimeScan B

9.2 Identification of the year of manufacture

Bircher Reglomat AG
CH-8222 Beringen
www.bircher-reglomat.com
BIRCHER Reglomat

PrimeTec B ES / PrimeScan B

AOPD
FCC: xxxxxx
Reactiontime <200ms

260508
(W)09999999
(10D)1312

CE 0682 ①

Week
Year of manufacture

10   **Contact**

Manufacturer

Bircher Reglomat AG
Wiesengasse 20
CH-8222 Beringen
www.bircher-reglomat.com

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