

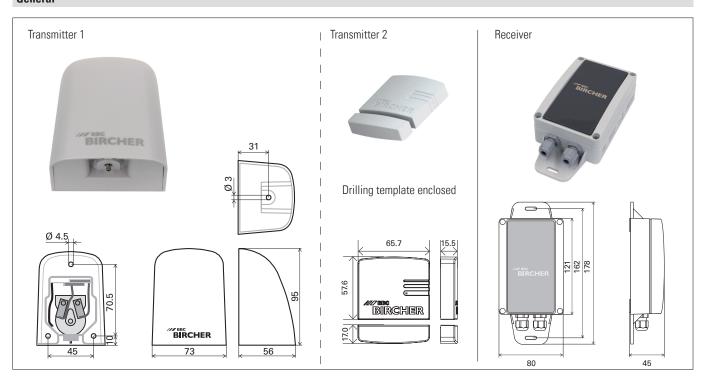
**Smart Access** 

# AirMission 2.W2

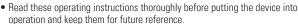
Wireless signal transmission system with integrated pressure-wave- and wicket-door-switch

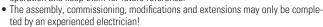
# Translation of the original operating instruction

### General



# 1 Safety instructions





- Before commencing work, remove the power supply from the device/installations!
- During the operation of electrical components
- e. g in the case of a short circuit hot and ionised gases can be emitted
- protection covers must not to be removed!
- Pay attention to all local relevant electrical safety regulations!
- Disregard of the safety regulations can cause death, severe injuries or extensive damage!
- Devices that are classified as Category 2 according to EN ISO 13849-1 must be tested regularly – at least once per cycle.
- It is the responsibility of the equipment manufacturer to carry out a risk assessment and to install both the detector and the equipment in compliance with

applicable national and international regulations and safety standards, as well as the Machinery Directive 2006/42/EC, should this apply.

Before commencing the installation or assembly complete the following safety precautions:

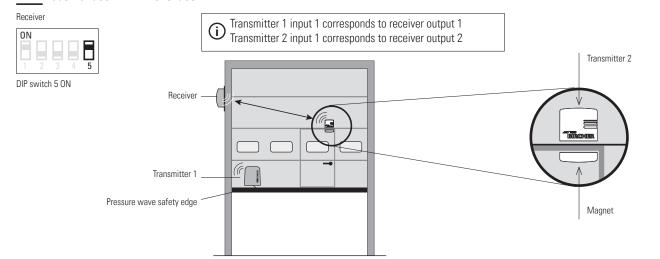
- Check the voltage data on the label of the switching device.
- Ensure that the device/installations can not be switched on!
- · Determine that the power supply is disconnected!
- Protect the device with a housing against contamination or aggressive environments!
- · Connect all operating and switching voltages to the same fuse.
- Connect the operating voltage to the same circuit as the industrial door controller.
- Disconnect device from mains in the event of a fault.

# Limited protection against accidental contact!

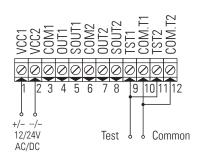
(i) It is recommended to change the batteries every year.

# 2 Common application



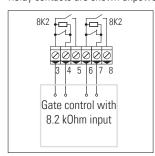


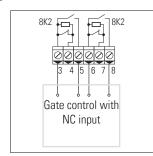
### 3.1 Wiring: Power supply and test inputs

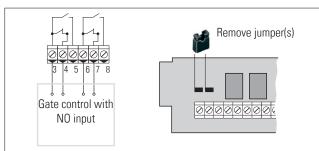


## 3.2 Wiring: Outputs and control

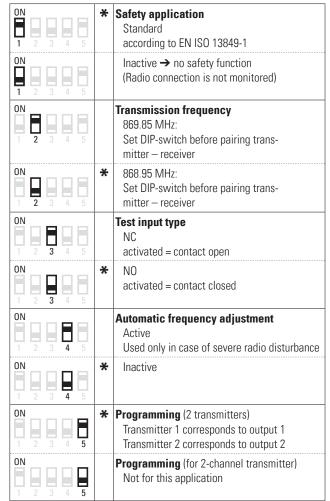
Relay contacts are shown unpowered







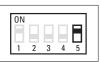
# 3.3 DIP switches



\* = factory setting

# 4 Installation





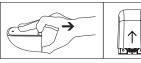
2. Install and wire receiver, see 3



Receiver:
Turn on power supply



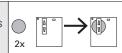
4. Transmitter 1 Open



5. Carefully pull out PCB



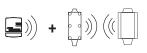
6. Insert both batteries (front/back)



7. Transmitter 2 Insert batteries



8. Programming (Chapter 5.1): Pair both transmitters with receiver





The distance between the transmitter and receiver and additional transmitters must be at least 1 m

9. Transmitter 1 Slide PCB back into housing



10. Install transmitter





11. Close



12.

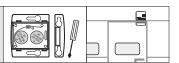
Connect safety edge with transmitter (rubber hose)



13. System test: Activate safety edge

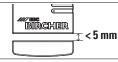


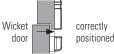
14. Mount transmitter 2 and magnet

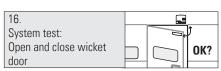


15.

Note: Distance magnet / transmitter when doors are closed







# 5 Programming

#### Pair transmitter with receiver 5.1





The distance between the transmitter and receiver and additional transmitters must be at least 1 m

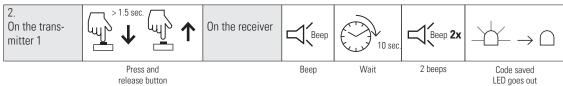
# Channel 1:



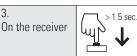


Веер

Release button LED lights up



Channel 2:

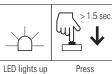




Веер









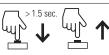


Release button



LED flashes

On the transmitter 2



Press button

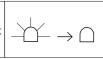






button





Press and release button

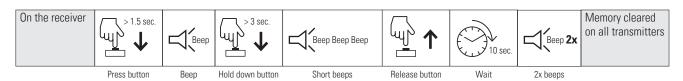
Веер

Wait

2 beeps

Code saved LED goes out

## Transmitter reset (clear pairing between transmitters and receiver)

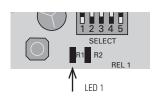


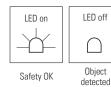
#### Memory full 5.3

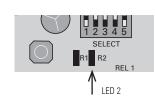


# 6 Operation

#### **Receiver LED indicators** 6.1











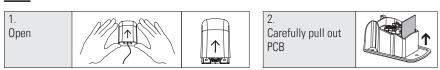
6.2 Warning indicator for low battery voltage

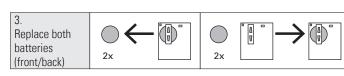


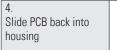
Signal sounds each time a transmitter is activated

# 7 Battery change

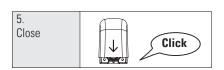
### 7.1 Transmitter 1















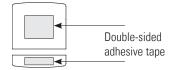
### 7.2 Transmitter 2





# 8 Alternative installation with double sided tape (not supplied)

View of transmitter 2 (bottom)



### Caution!

Ensure surfaces are clean, dry and free of dust and grease.

# 9 Technical data

System	
Frequency bands	868.95 MHz & 869.85 MHz
Range	Under optimum conditions up to 100 m
Pollution degree	2
Working temperature	-20 °C to +55 °C

Receiver	
Supply voltage	12/24 V ACDC
Transmitter memory	7 + 7
Output	2 relays 24 V, 0.5 A; micro-disconnection 1B
Power consumption	0.5 W @ 12 V; 1.2 W @ 24 V
Test signal input	12/24 VACDC
Protection class IEC 60529	IP55

Transmitter 1	
Battery power	2 x Lithium 3 V Type CR2032
Power consumption	Transmitting: 17 mA, standby: 16 μA
Protection class IEC 60529	IP54

Transmitter 2	
Battery power	2x Lithium 3 V type CR2032
Power consumption	Transmitting: 17 mA, standby: 16 μA
Protection class IEC 60529	IP65

## 10 Standards EN ISO 13856-2 and EN ISO 13849-1

The AirMission 2.W2 system itself is not able to check the function of the sensor in response to a pressure pulse. In accordance with D 3.5 of EN ISO 13856-2, a pressure wave system according to category 2 of EN ISO 13849-1 can be designed by checking the pressure wave system

at every machine cycle. On the doors and gates the door/gate control must assure this function in order to satisfy category 2. ( $\rightarrow$  Figure A.4 of EN ISO 13856-2).

### 11 EC-Declaration of Conformity

 $\epsilon$ 

See attachment

## 12 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.

# 13 Contact

**BBC Bircher Smart Access,** BBC Bircher AG, Wiesengasse 20, CH-8222 Beringen, www.bircher.com Designed in Switzerland / Made in Switzerland