## SWISSDOOR DØRTEKNIK FOR PROFESSIONELLE

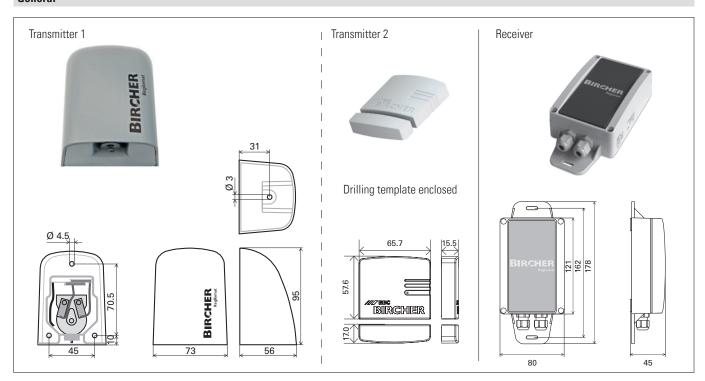
## BIRCHER

# **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



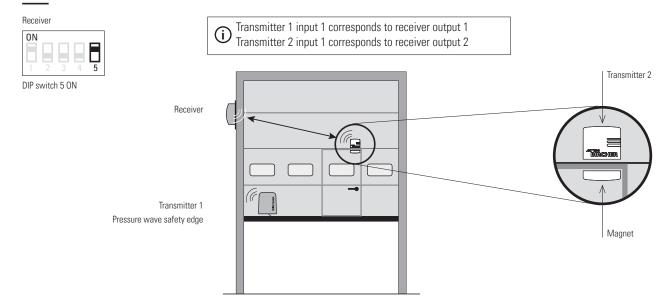
Warning: Switch off the operating voltage before working on the system. Only trained, qualified personnel may perform installation and startup. The unit may only be opened and repaired by Bircher Reglomat employees. The switching unit may only be used to protect against dangers at crushing and shearing points and at automatic industrial doors (intended use). National and international regulations on industrial door safety must be complied with. Always consider the safety functions of your applica-

tion as a whole, never just in relation to one individual section of the system. A risk assessment in advance is mandatory. The installer is responsible for installing the industrial door system correctly.

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

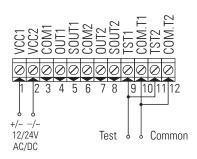
#### 2 Common application

#### 2.1 Industrial door with wicket door



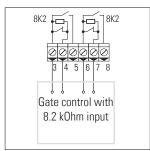
1

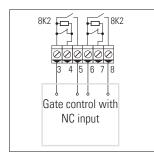
#### Wiring: Power supply and test inputs

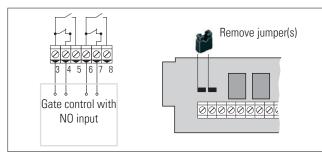


#### 3.2 Wiring: Outputs and control

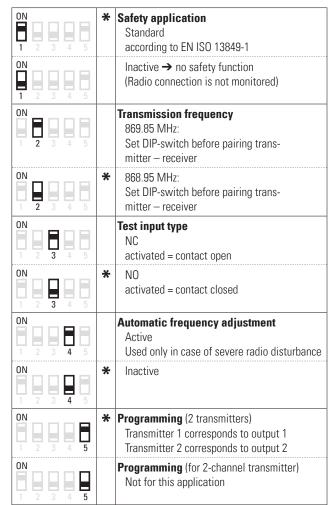
Relay contacts are shown unpowered







#### **DIP** switches



\* = factory setting

#### 4 Installation





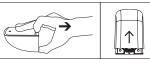
Install and wire receiver, see 3



Receiver: Turn on power supply



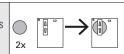




Carefully pull out PCB



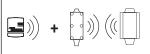
Insert both batteries (front/back)



Transmitter 2 Insert batteries



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



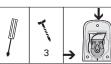


The distance between the transmitter and receiver and additional transmitters must be at least 1 m

Transmitter 1 Slide PCB back into housing













12.

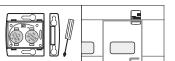
Connect safety edge with transmitter (rubber hose)



13. System test: Activate safety edge

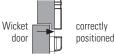


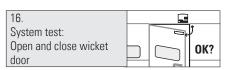
14. Mount transmitter 2 and magnet



Note: Distance magnet / transmitter when doors are







closed

#### 5 Programming

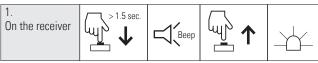
#### Pair transmitter with receiver 5.1





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

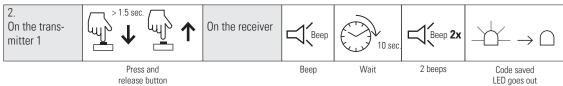
#### Channel 1:





Веер

Release button LED lights up



Channel 2:

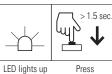




Веер











Release button



LED flashes

On the transmitter 2



Press button

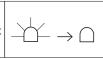






button





Press and release button

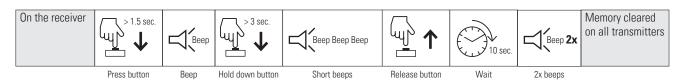
Веер

Wait

2 beeps

Code saved LED goes out

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

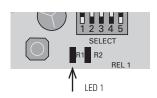


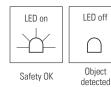
#### Memory full 5.3

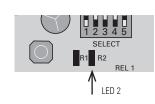


#### 6 Operation

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











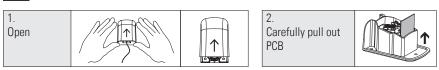
6.2 Warning indicator for low battery voltage

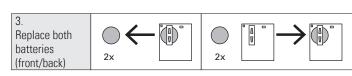


Signal sounds each time a transmitter is activated

#### 7 Battery change

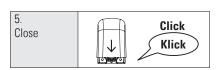
#### 7.1 Transmitter 1













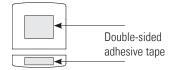
#### 7.2 Transmitter 2





### 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

Manufacturer: Bircher Reglomat AG, Wiesengasse 20, CH-8222 Beringen
Following directives have been observed: MD 2006/42/EC, RoHS 2011/65/EU, RED 2014/53/EU
EC type-examination certificate: E6945

Suva, technology division, SCESp 0008, ID no. 1246

Product variants: AirMission 2.x

#### 12 Contact / Danish seller

Notified inspection centre:

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

Swissdoor ApS, Stenhuggervej 2, DK-5471 Soendersoe, Denmark, Tel.: +45 86 28 00 00, mail@swissdoor.dk, www.swissdoor.dk