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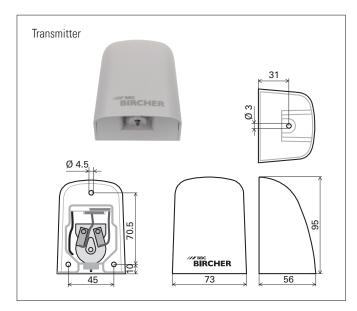
Smart Access

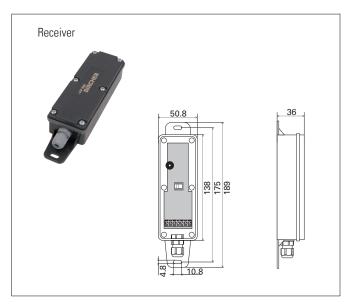
AirMission 1

Wireless signal transmission system with integrated pressure wave switch

Translation of the original operating instruction

General





1 Safety instructions

- · Read these operating instructions thoroughly before putting the device into operation and keep them for future reference.
- The assembly, commissioning, modifications and extensions may only be completed by an experienced electrician! Before commencing work, remove the power supply from the device/



- During the operation of electrical components - e. g. in the case of a short circuit hot and ionised gases can be
- 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.

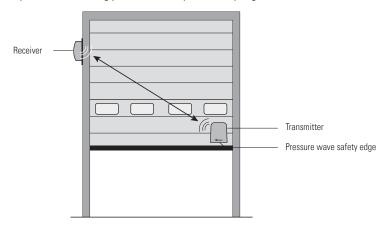
Limited protection against accidental contact!

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

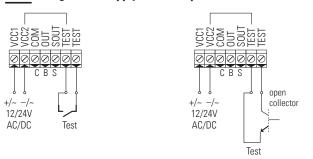
2 Common application

Industrial door

System for monitoring pressure wave system safety edges.

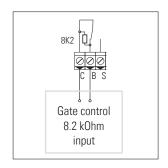


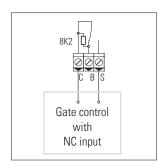
3.1 Wiring: Power supply and test inputs



3.2 Wiring: Outputs and control

Relay contacts are shown unpowered





Status	Terminals C – B	Terminals C – S
Sensor not activated (operating mode)	8K2	closed
Sensor activated (security system activated)	closed	open
No supply voltage	closed	open
Transmitter and receiver not paired	closed	open
Transmitter batteries low	closed	open

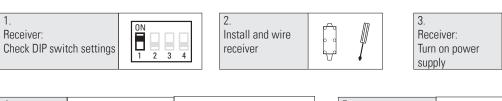
3.3 DIP switches

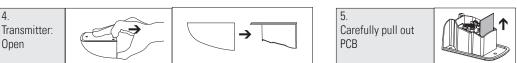
ON 1 2 3 4	*	Safety application Standard according to EN ISO 13849-1
ON 1 2 3 4		Inactive → no safety function! (Radio connection is not monitored)
ON 2 3 4		Transmission frequency 869.85 MHz: Set DIP-switch before pairing transmitter – receiver
ON	*	868.95 MHz: Set DIP-switch before pairing transmitter — receiver
ON 2 3 4		Test input type NC activated = contact open
ON	*	NO activated = contact closed
ON		Automatic frequency adjustment Active Used only in case of severe radio disturbance
ON	*	Inactive

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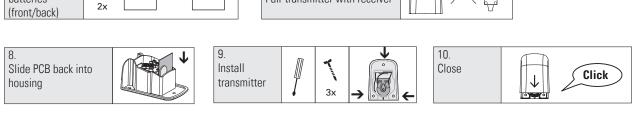
* = factory setting

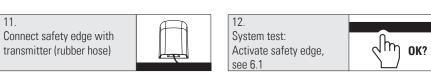
4 Installation











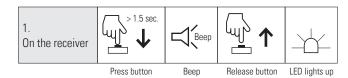
5 Programming

5.1. Pair the transmitter with the receiver



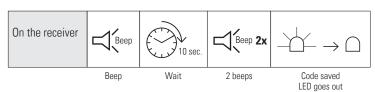


The distance between the transmitter and receiver and additional transmitters must be at least 1 m

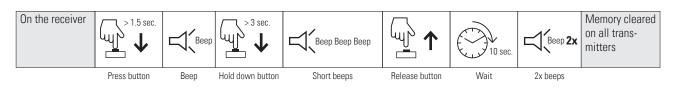








Transmitter reset (clear pairing between transmitters and receiver)



5.3 Memory full



6 Operation

6.1 Receiver LED indicators



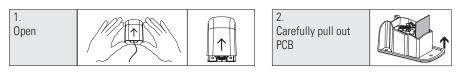


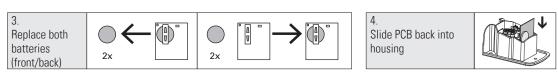


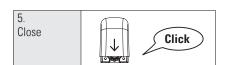
Warning indicator for low battery voltage



7 Battery replacement









8 Technical data

System			
Frequency bands	868.95 MHz & 869.85 MHz		
Range	Under optimum conditions up to 100 m		
Response time	25 ms		
Pollution degree	2		
Working temperature	-20 °C to +55 °C		

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

Receiver	
Supply voltage	12/24 V ACDC
Transmitter memory	10
Output	1 relay 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

9 Standards EN ISO 13856-2 and EN ISO 13849-1

The AirMission 1 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).

10 EU Declaration of Conformity



See attachment

11 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.

12 Contact

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