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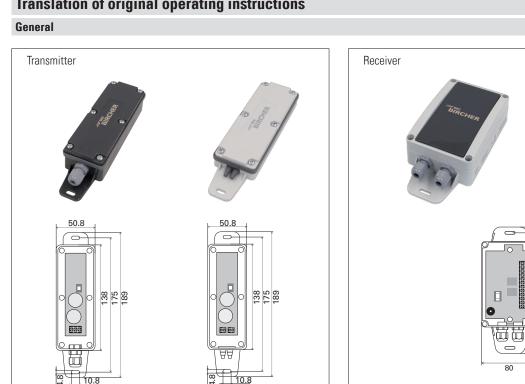
BIRCHER

Smart Access

RFGate 2.2.A

Wireless signal transmission system for safety edges, two channels

Translation of original operating instructions



1 Safety instructions

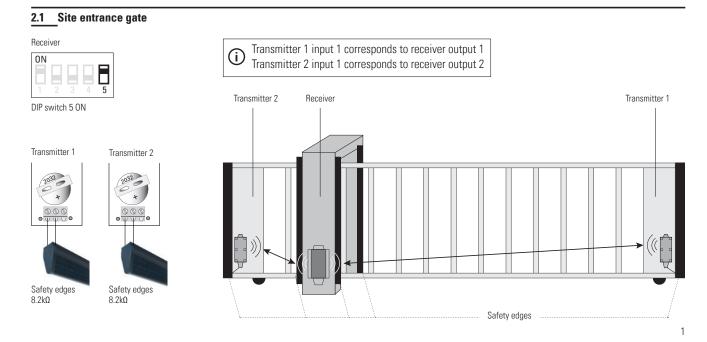
Warning: Switch off the operating voltage before working on the system. Only trained, qualified personnel may perform installation and startup. The unit may only be repaired by the manufacturer. The switching unit may only be used to protect against dangers on crushing and shearing points and on automatic industrial doors and gates (intended use). National and international regulations on industrial door and gate safety must be complied with. 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 industrial door system correctly.

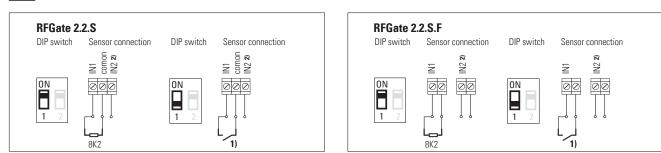
121 162 178

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

2 Common application



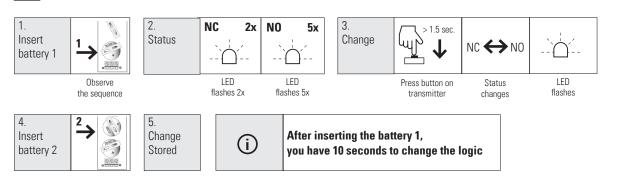
3.1 DIP switch setting according to sensor (safety edge, switch contact)



¹⁾ Change from NC to NO, see chapter 3.2

²⁾ (i) IN2 has no function

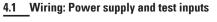
3.2 Change input from NC to NO (factory setting = NC)

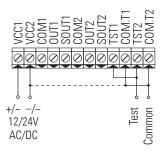


4.3

DIP switches

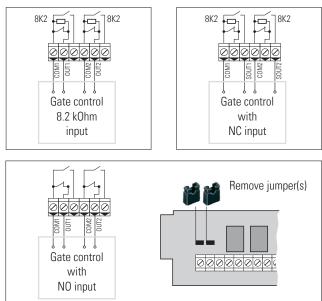
4 Receiver





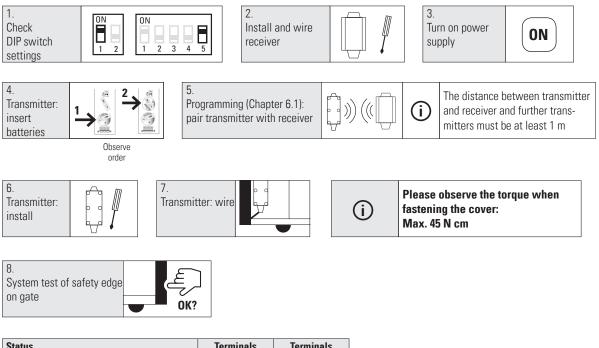
4.2 Wiring: Outputs and control

Relay contacts are shown unpowered



0N Safety application * standard according to EN ISO 13849-1 ON inactive → no safety function! (Radio connection is not monitored) ΟN **Transmission frequency** 869.85 MHz: Set DIP-switch before pairing h П transmitter - receiver 0N * 868.95 MHz: Set DIP-switch before pairing transmitter - receiver 0N Test input type NC activated = contact open ΟN * NO activated = contact closed 0N Automatic frequency adjustment active used only in case of radio disturbances 0N * inactive _ 0N Programming of RF Gate 2.2.A (2 transmitters) Transmitter 1 corresponds to output 1 Transmitter 2 corresponds to output 2 0N Programming of RF Gate 2.2.NG * (1 transmitter) Input 1 corresponds to output 1 Input 2 corresponds to output 2

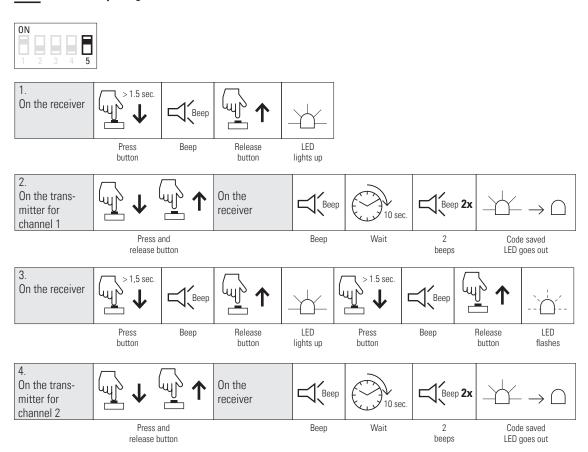
* = factory setting



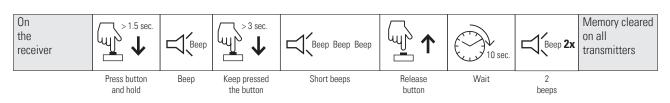
Status	Terminals COMx – OUTx	Terminals COMx – SOUTx
Sensor not activated (operating mode)	8K2	closed
Sensor activated (security system activated)	closed	open
No supply voltage	closed	open
Transmitter and receiver not paired	closed	open
Broken cable between sensor and transmitter	closed	open
Transmitter batteries low	closed	open

6 Programming

6.1. RFGate 2.2.A, pairing transmitter with receiver



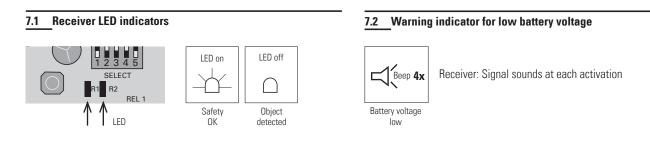
6.2 Transmitter reset



6.3 Memory full



7 Standard operation



8 Technical data

Receiver	
Supply voltage	12/24 V ACDC
Transmitter memory	7
Output	2 relays 24 V, 0.5 A; micro switch-off 1B
Power consumption	0.5 W @ 12 V; 1.2 W @ 24 V
Test signal input	12/24 VACDC

Transmitter	
Battery power	2 x Lithium 3 V Type CR2032
Power consumption	Transmitting: 17 mA standby: 16 µA

System	
Frequency bands	868.95 MHz & 869.85 MHz
Range	under optimum conditions up to 100 m
Protection class IEC 60529	IP55
Pollution degree	2
Working temperature	-20 °C to +55 °C

9 EU Declaration of Conformity



See attachment

10 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.

11 Contact

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