

## supplementary manual for SWING X

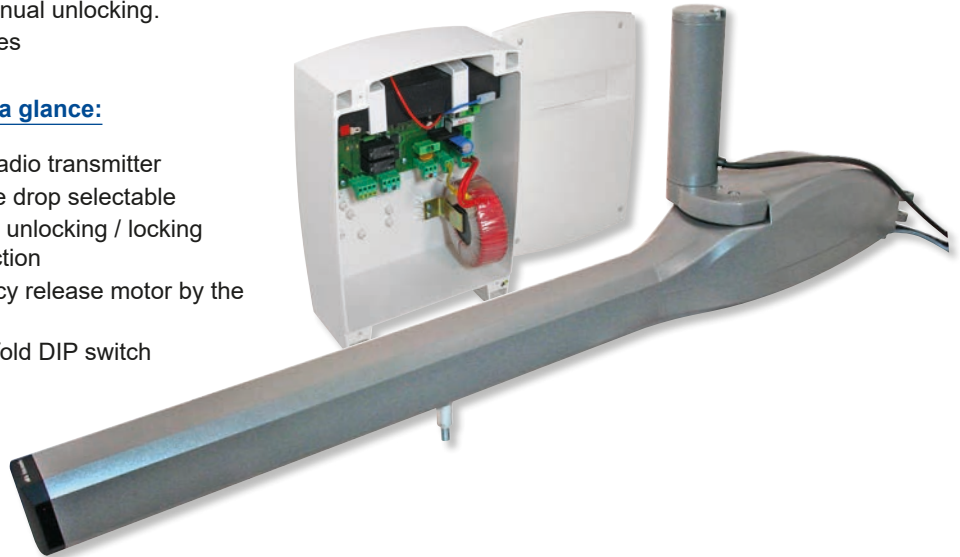
# Electric emergency release

### Applications:

- the automatic emergency release for the SWING X operators allows manual gate opening in the event of a power failure without first having to perform a manual unlocking.
- mostly required at fire brigade entries

### The most important functions at a glance:

- release/lock via impulse button or radio transmitter
- automatic unlocking at main voltage drop selectable
- 24V DC battery (2 x 12V) to ensure unlocking / locking function with deep discharge protection
- display of current state of emergency release motor by the use of relay
- various modes selectable with fourfold DIP switch
- LED display of the operating state (after first impulse input)
- LED display of battery charge level



### Important

- Operator is delivered in unlocked state.
- Operator or emergency release are only allowed to be used with appropriate tousek control board
- **Attention:** The use of external power supply (e.g. battery, ...) leads to destruction of emergency release motor!
- **PLANNING-/ INSTALLATION NOTE:** Please consider dimensions of SWING X with electric emergency release and accordingly provide sufficient space for movement of the operator !
- **Not suitable for continuous operation (continuous unlocking / locking)!**



**Protection against DEEP DISCHARGE of the accumulator (battery):** If the system is to be disconnected from the mains supply for a longer period of time (from one day), it is absolutely necessary to disconnect the rechargeable battery from the control.



### Important when locking

Slowly move the gate manually in its travel direction until you can hear the gearing re-engage!

### Technical data

electrical emergency release SWING X			
control unit			
power supply	230V a.c., +/-10% 50Hz	protection class	IP54
emergency release outputs	2 x 80W, 12Vd.c. (PWM)	ambient temperature	- 20°C to + 70°C
unlocking / locking	with 2 impulse emitter inputs or pluggable radio receiver STN 2	article no.	12111090
battery	24Vd.c. (2 x 12V), deep discharge protection		
status display	by the use of relay (contact load 230V/6A): ON= unlocked, OFF= locked		
emergency release motor			
power supply	12Vd.c.	article no.	13830040
protection class	IP44		



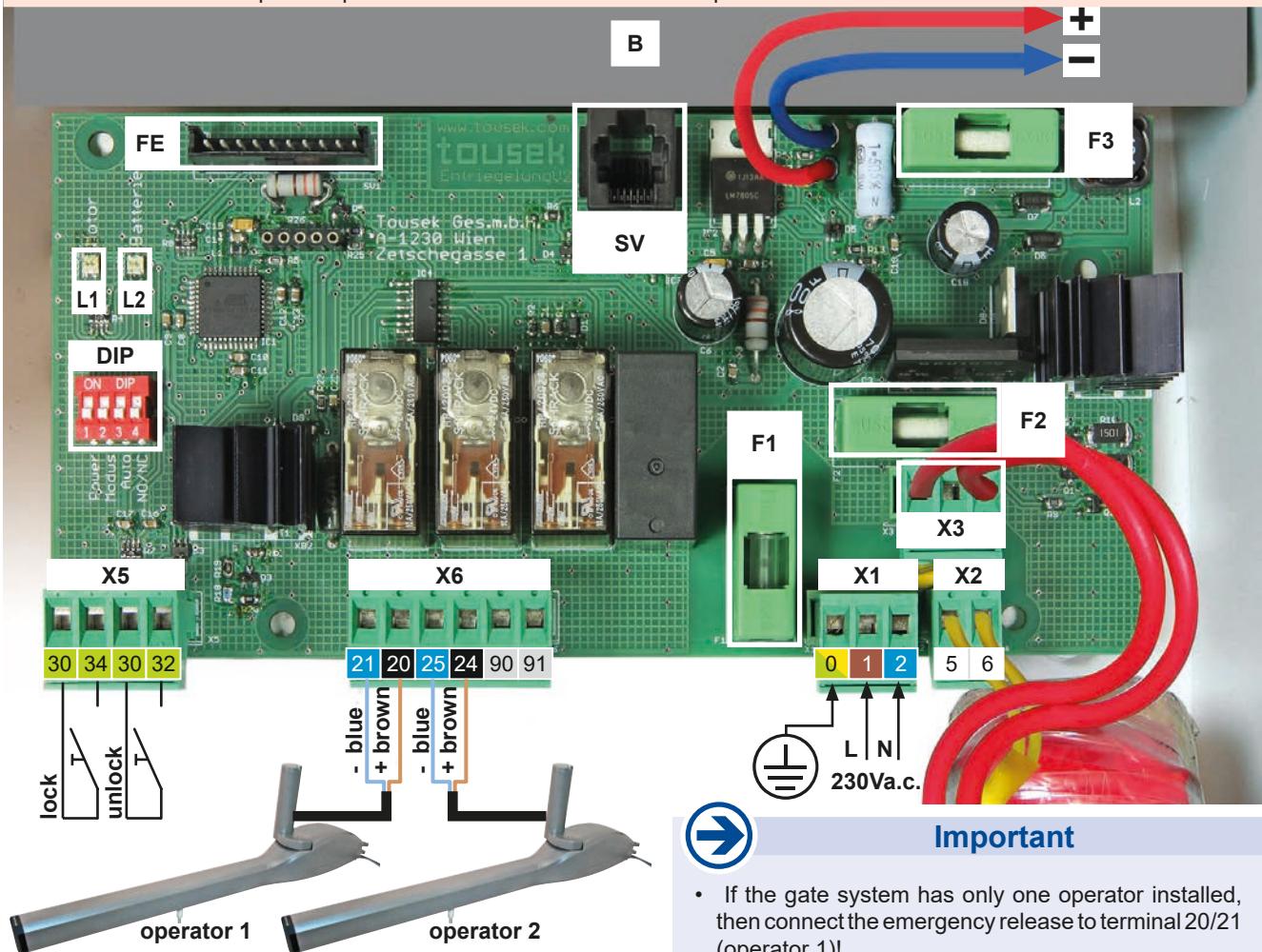
## Warning

- Before electrical installation the power supply of the complete system (incl. control board) must be turned off.
- In order to avoid electrical stroke, the safety regulations need to be followed.
- The device may only be connected by trained professionals.
- The product is not suitable for installation in explosion hazardous areas!



**Pay attention to the correct polarity! - Wrong connection leads to damage of battery and control board!**

- Before initial operation, the red cable needs to be connected to the positive pole.
- Connect the blue cable of the board to the minus pole.



## Important

- If the gate system has only one operator installed, then connect the emergency release to terminal 20/21 (operator 1)!
- After locking slowly move the gate manually in its travel direction until you can hear the gearing re-engage!

**B** battery 24Vd.c. (2 x 12V)

**T** transformer

**F1** fuse F 250mA

**F2** fuse T 1,5A

**F3** fuse F 10A

**SV** service connector

**X5** 30/32 input terminal **unlock**  
30/34 input terminal **lock**

**X6** unlocking / locking motors

20/21 for operator 1

24/25 for operator 2

90/91 potential-free relay output  
ON: unlocked, OFF: locked  
contact load 230V/6A

**X1** power supply: 0: grounding, 1/2: 230Va.c.

**X2** 230V a.c. transformer primary

**X3** 24V a.c. transformer secondary

**L1** LED 1 **red**: unlocked / **green**: locked

**L2** LED 2 3 coloured LED shows battery status

**red**: flat (0–50%) / **orange**: middle (51–90%) / **green**: full (91–100%)  
**OFF**: battery defective

**FE** slot for radio receiver (unlock / lock by radio system) for pluggable receiver STN2: 1. channel: unlock / 2. channel: lock



**If DIP 4 = ON the radio receiver slot (FE) is deactivated!**

**DIP** fourfold DIP-switch to set following options:

**DIP 1= OFF !!!** (for SWING X operators)

DIP 2: ON = 2 emergency release motors, OFF = 1 emergency release motor

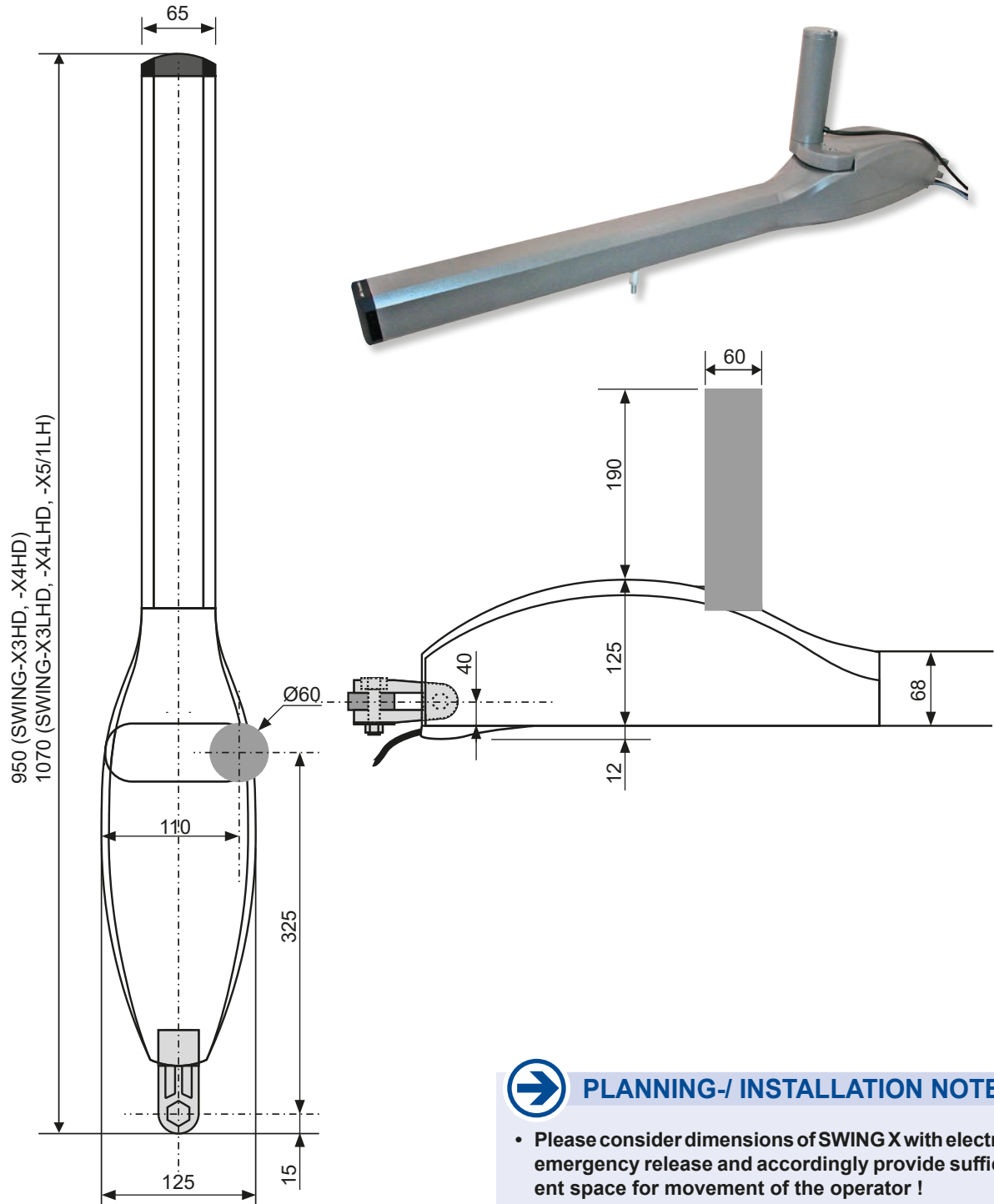
DIP 3: ON = automatic unlocking after power failure



**In order to lock again, a potential-free impulse is at terminal block 30/34 or radio impulse (2. channel) necessary!**

DIP 4: ON = NC-input (term. 30/32) for unlocking, **term. 30/34 not active!**  
OFF = NO-inputs (term. 30/32. and term. 30/34 are active)

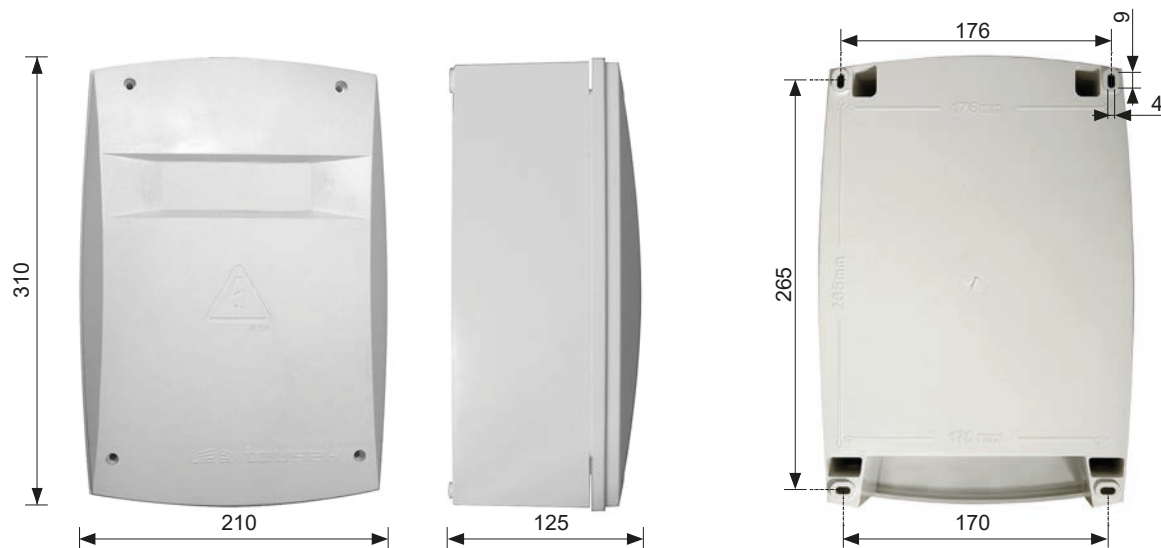
- dimensions in mm



We reserve the right to change dimensions and technical specifications without prior notice!

## Emergency release - control board housing IP54

- dimensions in mm



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