Barrier-free toilet with ED100/ED250

Technical Documentation

dormakaba⚡

Characteristic Features and Configuration

The upgrade card "Barrier-Free Toilet" provides the in and outputs of the control unit with the required special functions and thus allows easy and direct connection of the respective components.

Following the successful installation of the upgrade card, a power reset is required to ensure that the system takes on the functions.

System Overview

The door has to be equipped with a fail-safe electric strike or a suitable motorised emergency escape lock. Furthermore, the assembly is provided with a lever handle on the inside and a knob on the outside. This allows the door to be opened from the inside at any time, while a corresponding key is required to unlock the door from the outside.

In addition, large-surface push buttons are installed on the inside and on the outside of the toilet while a status indicator (vacant/occupied) on the outside and an occupied light indicator on the inside show the current status. As an option, the system allows the installation of emergency push buttons on the inside and on the outside to open the door quickly in the event of an emergency.

dormakaba recommends integrating the barrier-free toilet in an additional emergency call system (by others).

Functional Description

Entering the barrier-free toilet

While the toilet is vacant, the status indicator on the outside is green. When a user has triggered an automatic opening cycle via the push button on the outside, the door will close automatically on expiry of the adjusted hold-open time. As soon as the door is fully closed again, the user can deactivate the external push button via the push button on the inside.

At the same time, the external status indicator switches from green to red in order to indicate that the toilet is occupied. Also the internal light indicator turns red to show the user inside the toilet that the door is now locked.

Leaving the barrier-free toilet

Users can open the door either automatically via the internal push button or manually by using the lever handle. As soon as the door opens, the system sends a 24 V DC message to terminal 1G, which can be used to flush the toilet automatically. The door closes on expiry of the adjusted hold-open time. As soon as the door is fully closed, the status indicator on the outside switches from red to green and the light indicator on the inside goes out.
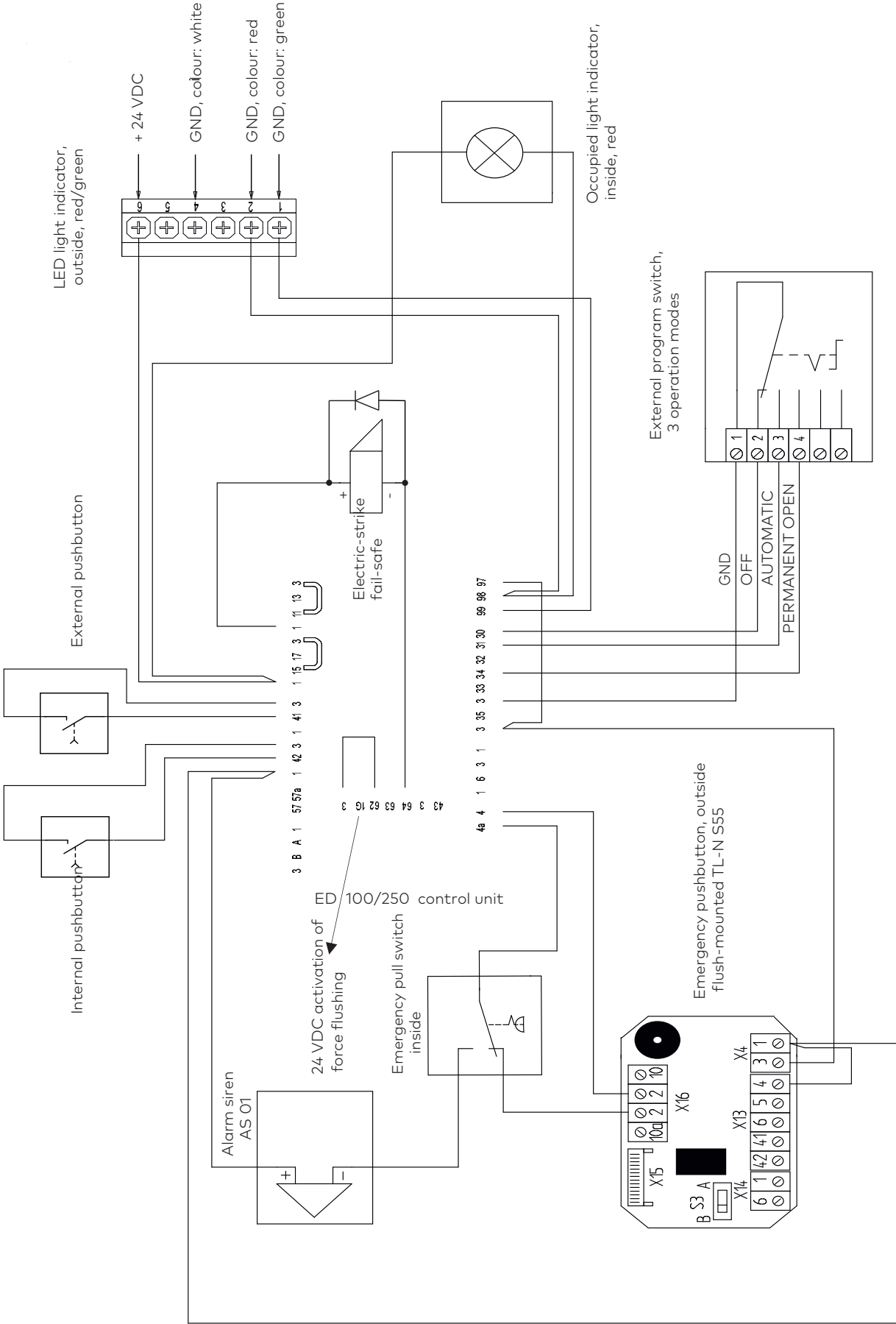
Emergency opening from the outside

The system is ready for connection of an emergency

push button. In the event of an emergency, users can deactivate the locking function and the door can only be opened manually. In this case, the door no longer operates automatically.

As an alternative, users can open the door from the outside with a key. In both cases, the status indicator on the outside switches from red to green and the light indicator on the inside goes out.

Terminal Assignment

LED light indicator, outside, red/green

+ 24 VDC

GND, colour: white

GND, colour: red

GND, colour: green

Occupied light indicator, inside, red

External program switch, 3 operation modes

GND

OFF

AUTOMATIC

PERMANENT OPEN

External pushbutton

Electric-strike fail-safe

Internal pushbutton

ED 100/250 control unit

24 VDC activation of force flushing

Emergency pull switch inside

Emergency pushbutton, outside flush-mounted TL-N S55

Alarm siren AS 01

List of Components

Swing door operator ED 100/250	**Quantity depending on requirements**
Upgrade Cards Upgrade card "Barrier-Free Toilet"	**1 x 29253002**
Electric strike (fail-safe principle) Basic-S 24 VDC	**1 x 15137124**
Status indicator (outside) LED light indicator - Red/Green	**1 x 16713401170**
Occupied light indicator (inside) Flush-mounted light indicator (RED)	**1 x 05080331332**
External pushbutton Switch pad with wheelchair symbol	**1 x 16717701170**
Pushbutton (inside) Pushbutton (to lock/unlock the door)	**1 x 16718101170**
Emergency alert (inside) Emergency pull switch	**1 x 19140601150**
Emergency keyswitch (outside) TL-ST S55	**1 x 56330701**
Alarm siren AS 01	**1 x 56080100**
Central Insert Push button inserts	**2 x 5157633332**
Cover Frame Double (1x Inside, 1 x Outside)	**2 x 5214333332**

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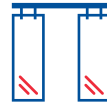Systems that enable access rights and key control to all rooms within the premises

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