

Platformlift – controlled by Windigipet 2021

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Content

1	Summary.....	2
2	Feedback system (S88)	3
3	M84 Decoder	4
3.1	Diagram	5
4	Windigipet implementations.....	7
4.1	Trackdiagram	7
4.2	Dispatcher (stellwerkswärkter)	8

1 Summary

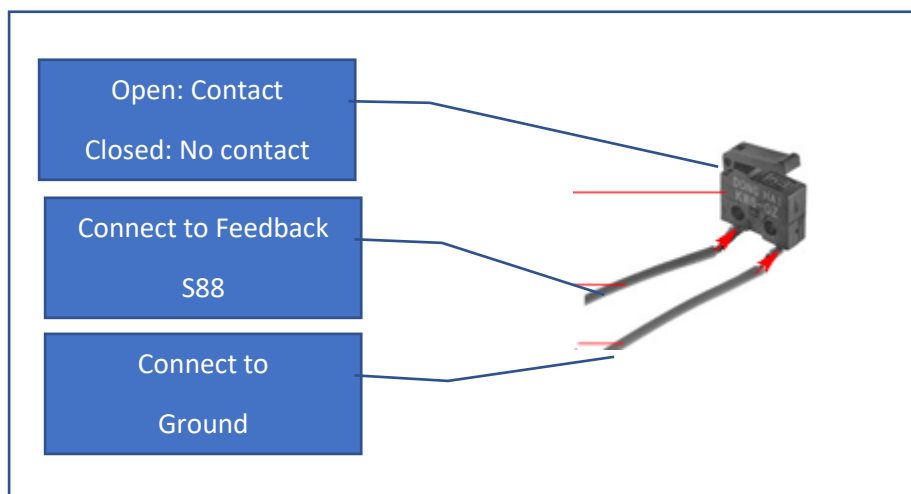
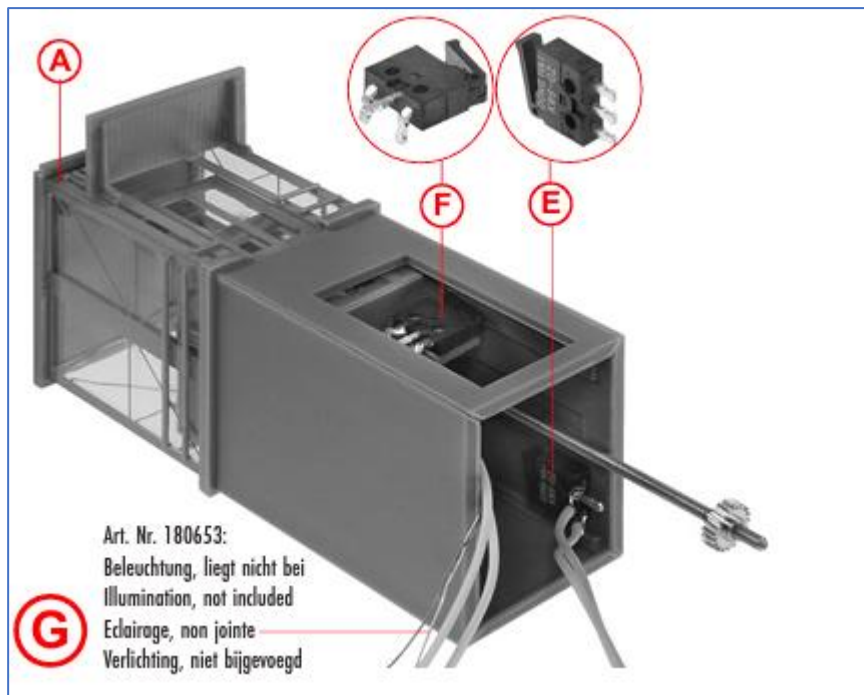
This document contains a description of how I rebuild

- **Faller platform lift 120297**
https://medien.faller.de/xs_db/DOKUMENT_DB/www/anleitungen/120297_anl_01.pdf
-
- **Drive unit 180692.**
https://medien.faller.de/xs_db/DOKUMENT_DB/www/anleitungen/180692_anl_01.pdf
-

In order to be able to operate the lift from Windigipet, I have replaced the 3-way switch with the following:

- The 2 microswitch that indicate whether the lift chair is at the top or bottom are now connected to the S88 feedback system
- The start of the elevator is done digitally – it stops when it has reached its destination.
- To make the motor change direction, the poles must be reversed. This is done with an M84 decoder
- Lights have been installed that can be switched off digitally

2 Feedback system (S88)



Connect the two MicroSwitch to the FeedBack system – I use S88.

Note: When the contact is open – there are contact between the two wires.

MicroSwitch in upper position: S88_Upper (RMK 95)

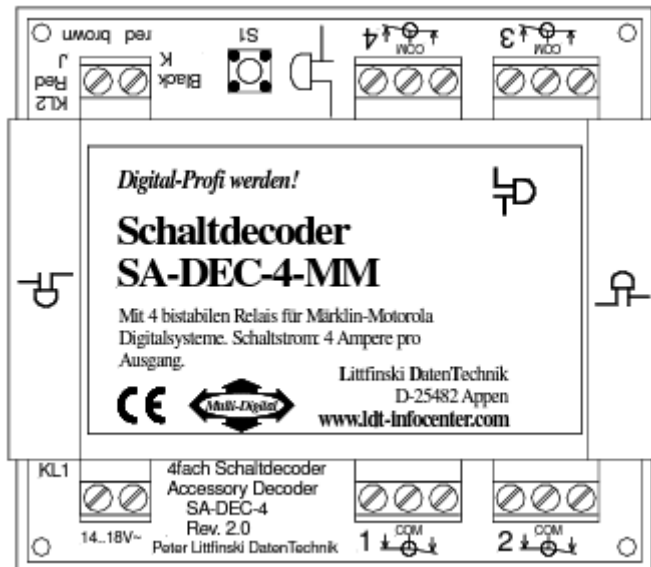
MicroSwitch in lower position: S88_lower (RMK 96)

When the elevator chair is in upper position: S88_Upper : Free (S88_Lower occupied)

When the elevator chair is in lower position: S88_Lower : Free (S88_Upper occupied)

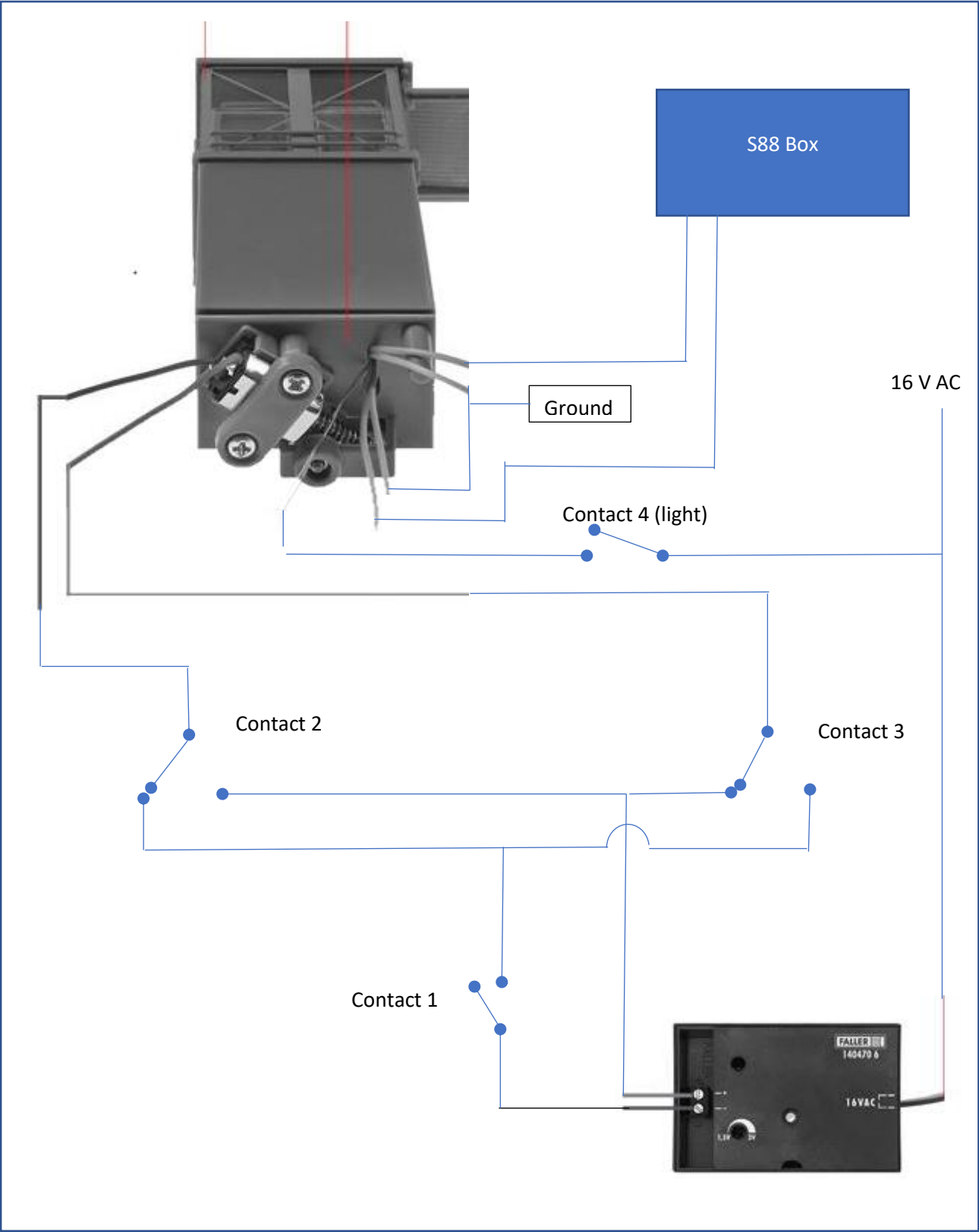
3 M84 Decoder

There are several types of these decoder – I use a Litfinski with 4 contacts



Contact	Adress DCC	Purpose	Note
1	149	Motor Start/Stop	
2	150	Wire 1 from motor – connect to + or -	Contact 2 and 3: They always switch together. Both er either ON or OFF (Windigipet Stellwerswärter takes care of that)
3	151	Wire 2 from motor – connect to - or +	
4	152	LED light on/off	

3.1 Diagram



With contact 1 the power to the motor is switch on or off.

Contact 2 and 3 are always switch together. The purpose is to change the motor direction.

Windigipet takes care thar THESE TWO CONTACTS ARE ALWAYS SWITCH AT THE SAME TIME – otherwise there will be an overload situation!

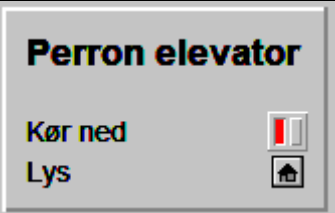
Contact 4 turn the light in the elevator chair on or off.

The two microswitch is connected to the S88 system with 1 wire – and the other to ground.

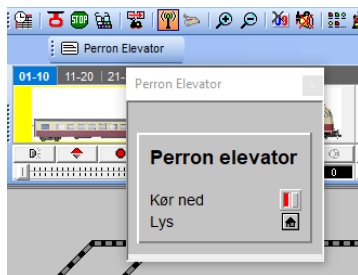
NB: When the elevator chair is in the upper position – the upper S88 contact is Free ! – and when the elevator chair is in the below position – the lower S88 contact is free

4 Windigipet implementations

4.1 Trackdiagram

 The image shows a control panel for a 'Perron elevator'. It has the text 'Perron elevator' at the top. Below it, there are two buttons: 'Kør ned' (Down) and 'Lys' (Light). To the right of these buttons is a small red indicator light and a home icon.	Contact 1	Start the elevator
	Contact 4	Light on / off

This is the main control of the elevator - it is implemented as and



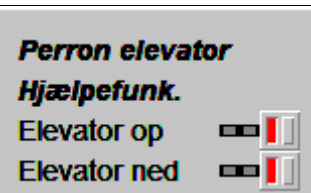
Perron elevator (Danish) = Platform lift (English)

Kør ned (danish) = Down (English)

Kør op (Danish) = Up (English)

The text “Up” and “Down” changes – when the elevator are up the text is Down – and vice/versa

Lys (Danish) = Light (Danish)

 The image shows a control panel for 'Perron elevator' with the text 'Hjælpefunk.' (Help functions). Below it, there are two buttons: 'Elevator op' (Lift up) and 'Elevator ned' (Lift down). To the right of these buttons are two red indicator lights.	S88 Upper Contact	
	S88 Lower Contact 3	

Help functions – only needed for the Stellwerkswärter

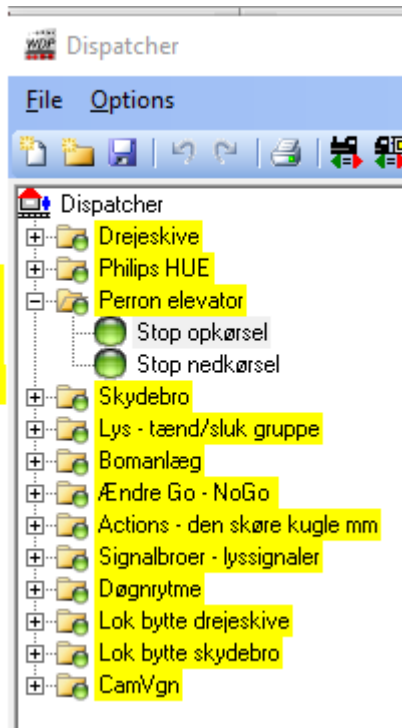
Perron elevator (Danish) = Platform lift

Hjælpefunk. (Danish) = Help functions

Elevator op (Danish) = Lift up

Elevator down (Danish) = Lift down

4.2 Dispatcher (stellwerkswärkter)

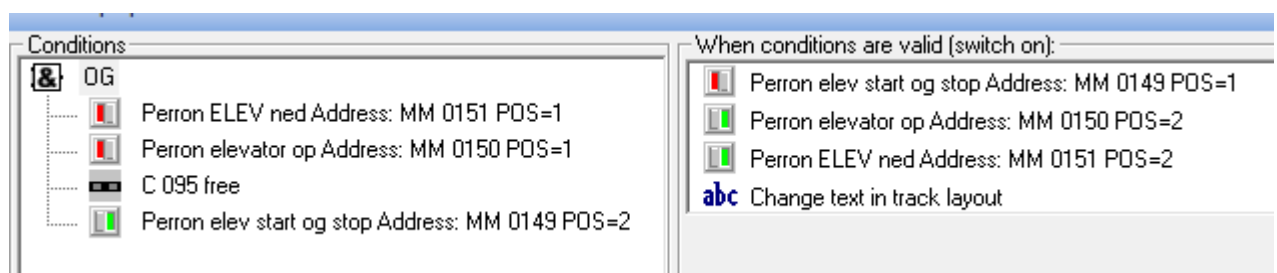


In the dispatcher there are the following two records:

- Stop driving up
- Stop driving down

When the user has started the elevator these two records stops it when it has reach its goal – and at the same time contact 2 and 3 are switch – change direction of the motor.

Stop driving up:



Conditions:

- Contact 2 and 3 er false – the elevator is driving up
- S88 upper = Free – the elevator has reached the top
- Contact = 1 true – the motor is running

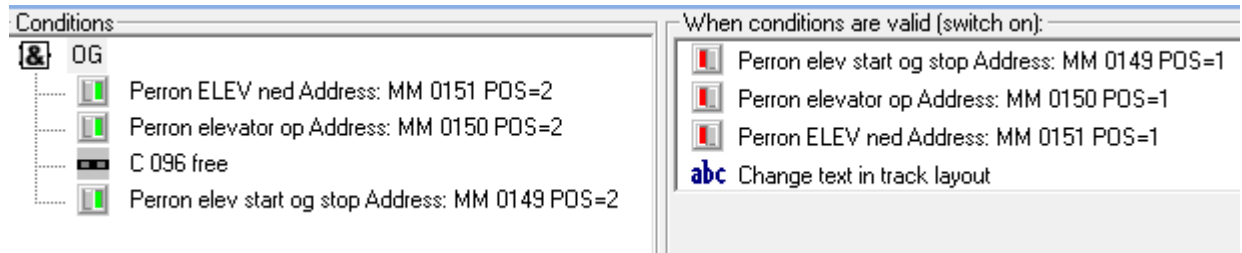
Action:

Stop the elevator – Contact 1 = False

Change motor direction – contact 2 and 3 = True

Change the text on the pop up: from Up to Down

Stop driving down:



Exactly same principle as stop driving up