



# INSTALLATION DRIVE POD



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# 1 General

The MSB-RC installation drive pod allows the car to be moved wirelessly as an assembly platform in dead man operation without travelling cable, car top box or car top control pod.

## 1.1 Abbreviations, characters and symbols used

Symbol / abbreviation	Meaning
MSB-RC	Installation drive pod
	<b>Operational instructions</b> Perform the tasks that follow this symbol in the specified order.
•	Action step under the respective operational instruction
	<b>Warning notice</b> This symbol is located in front of safety-relevant information
	<b>Information notice</b> This symbol is located in front of relevant information.

## 1.2 Notation

Notation	Meaning
<b>Bold</b>	› Designations of switches and actuators › Input values
<i>Italics</i>	› Captions › Cross references › Designations of functions and signals › Product names
<b><i>Bold italics</i></b>	› Remarks
LCD font	› System messages of the controller

### 1.3 Further information

The following documents, among others, are available for the FST controller and its components.

- › FST-2XT Installation & Commissioning
- › FST-2XT manual
- › ADM manual
- › FPM manual
- › SAM manual
- › Fire recall manual

These and other current manuals can be found in the download area of our website at  
<http://www.newlift.de/service/download/?L=0>

### 1.4 How to contact us

If, after referring to this manual, you still require assistance, our service line is there for you:

Phone +49 89 - 898 66 - 110

E-mail [service@newlift.de](mailto:service@newlift.de)

Mon. - Thurs.: 8:00 a.m. - 12:00 p.m. and 1:00 p.m. - 5:00 p.m.

Fr: 8:00 a.m. - 3:00 p.m.

## 2 Safety

### 2.1 General safety regulations

The installation drive pod must only be operated in perfect working condition in a proper manner, safely and in compliance with the instructions, the valid accident prevention regulations and the guidelines of the local power company.



**The safety guidelines of the FST manual and the FST Installation and Commissioning manual apply for this product.**

- › The instructions of the lift manufacturer and the instructions in this manual must be followed during installation and commissioning of the lift system.
- › The shaft must be secured against unauthorised trespassing during installation and commissioning.
- › Assemblies, devices and cables must be installed and fastened securely and permanently.
- › Loads must be moved with suitable aids (lift trucks, hoisting gear etc.).
- › Sharp and pointed tools or other potentially dangerous objects may only be carried along in clothing if suitable protective measures have been taken to rule out any danger.
- › Alcohol and drugs must not be consumed before and during installation and commissioning.

### 2.2 Working in the shaft

- › Any work in the shaft requires perfect and permanent communication between the supervisor on the FST-2 controller in the motor room and the workers in the shaft.
- › Components in the shaft must be arranged or secured in such a way that persons accessing the shaft for inspection, maintenance or repair purposes are not in danger.
- › The maximum load of the lift system must not be exceeded.
- › The specified overruns of the emergency end switches in relation to the speed must be observed.
- › The emergency installations must not be activated during normal operation.
- › All emergency installations and braking systems must be checked for troublefree operation and all shaft entrances closed off before beginning work.
- › Installation and operation are prohibited if other persons could be in danger.
- › Workers must be secured against falling.
- › In case of any work interruptions, the car must be moved to the lowest stop position, the controller switched off and the power supply (e.g. UPS) permanently disconnected.

### 2.3 Personal safety equipment of the installing engineer

- › Eye protection
- › Safety boots
- › Protective helmet
- › Safety harness
- › Clothing suitable to the ambient conditions of the installation location
- › Jewellery, watches or similar objects must not be worn.  
Wear a hairnet if necessary.

## 3 Technical data

### 3.1 Structure and function

The MSB-RC installation drive pod consists of receiver and transmitter.

#### RECEIVER

The receiver is equipped with a 2 m long cable and plugs X2, X14, X19 and X32.

#### TRANSMITTER

The MSB-RC allows the car to be moved as an assembly platform in dead man operation without travelling cable, car top box and car top control pod. It sets all safety circuit bridges necessary for travel in dead man operation.

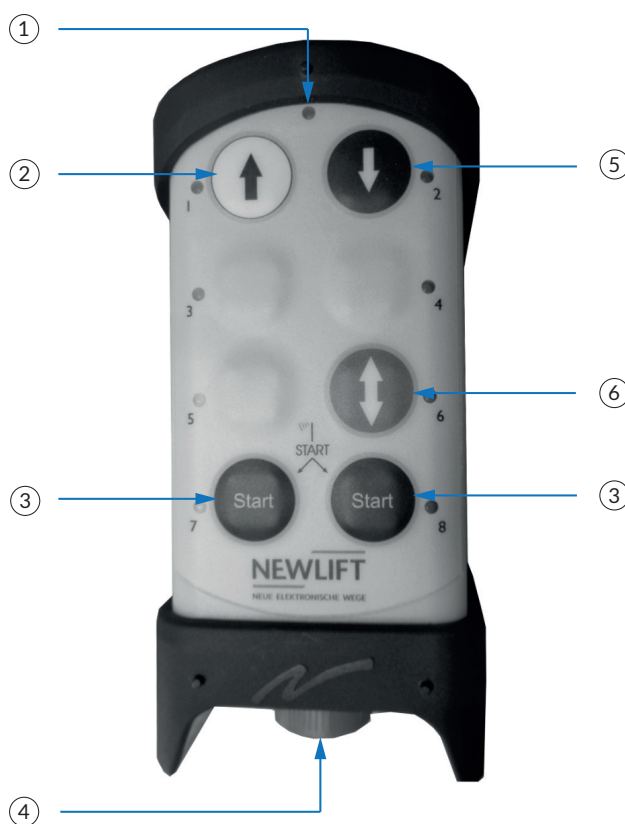


Abb. 1 Transmitter

1	Signal lamp (yellow) Driving UP/DOWN
2	Drive button (white) <b>UP</b>
3	2x <b>START</b> button for activating the wireless connection
4	<b>EMERGENCY-STOP</b> button
5	Drive button (black) <b>DOWN</b>
6	Enable button (blue) <b>ENABLE</b>

The transmitter of the MSB-RC installation drive pod also has an acoustic alarm for signalling the activated wireless connection.

### 3.2 Connecting the MSB-RC

- Insert plugs X2, X14, X19 and X32 of the receiver cable into the corresponding terminal strips of the FST-2XT according to Fig. 2.



*The electrical connection of the MSB-RC installation drive pod is to be performed with the main switch switched off in an unpowered state!*

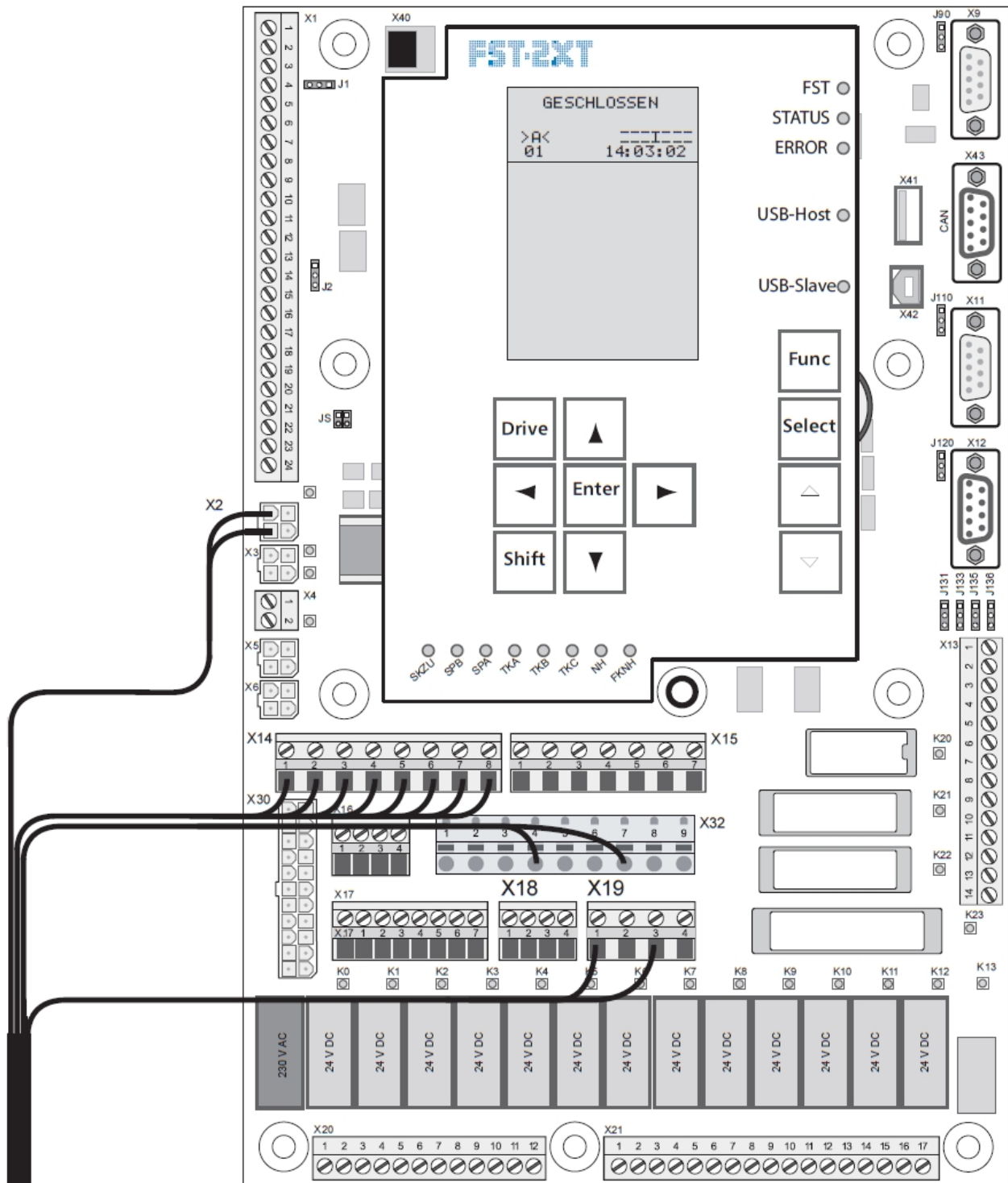


Abb. 2 Connection of the receiver cable to the FST-2XT controller



### 3.3 Checking the function of the Emergency-Stop button



*The **EMERGENCY-STOP** button interrupts the safety circuit and must be actuated after every drive! If the **EMERGENCY-STOP** button is not actuated and the wireless connection is activated, an acoustic signal sounds!*

*If the **EMERGENCY-STOP** button is not actuated, the car may begin to move on its own in the event of an electrical malfunction!*

**Check the **EMERGENCY-STOP** button for proper function prior to starting every shift!**

- ▶ **Actuate the **EMERGENCY-STOP** button:**
  - The **EMERGENCY STOP** message must appear on line A on the display of the **FST-2**.
  - All started drives without electrical overtravel must be interrupted.
- ▶ Try to move the car with the **EMERGENCY-STOP** button actuated:  
Successively press the **UP** and **DOWN** buttons.  
No car movement may occur.



*If the acoustic warning message does not sound or if the **EMERGENCY-STOP** button does not function exactly as described above, the **MSB-RC** installation drive pod must not be used!*

#### Requirements prior to the first drive

- › The **MSB-RC** installation drive pod is electrically connected.
- › The drive was commissioned.
- › The **FST-2** is in installation mode  
(**CONFIG / COMMISSIONING / INSTALLATION MODE = ON**)
- › The function of the **EMERGENCY STOP** button was tested.

#### Requirements prior to every drive

- ▶ Make certain that persons accessing the shaft for inspection, maintenance or repair purposes are not endangered by the driving of the assembly platform!
- ▶ Check the function of the **EMERGENCY STOP** button
- ▶ Before stepping onto the assembly platform, check the direction of travel and drive speed of the drive:
  - When driving upwards, the assembly platform must move upwards
  - When driving downwards, the assembly platform must move downwards
  - The speed of the assembly platform must not exceed 0.6 m/s in either direction!

#### Driving in upwards or downwards direction

- ▶ Deactivate the **EMERGENCY-STOP** button by pulling out and then actuate both **START** buttons at the same time.  
The wireless connection is activated. The acoustic warning message sounds.

#### Drive with reduced speed

- ▶ Depending on the direction of travel, lightly press the **UP** or **DOWN** drive button (first level) and simultaneously actuate the **ENABLE** button.  
The assembly platform begins to move at reduced speed and the yellow "Driving" signal lamp illuminates.

#### Drive with increased speed

- ▶ Depending on the direction of travel, firmly press the **UP** or **DOWN** drive button (second level) and simultaneously actuate the **ENABLE** button.  
The assembly platform begins to move at increased speed and the yellow "Driving" signal lamp illuminates.
- ▶ End the drive by releasing both buttons and immediately actuate the **EMERGENCY-STOP** button.

### 3.4 Wiring diagram

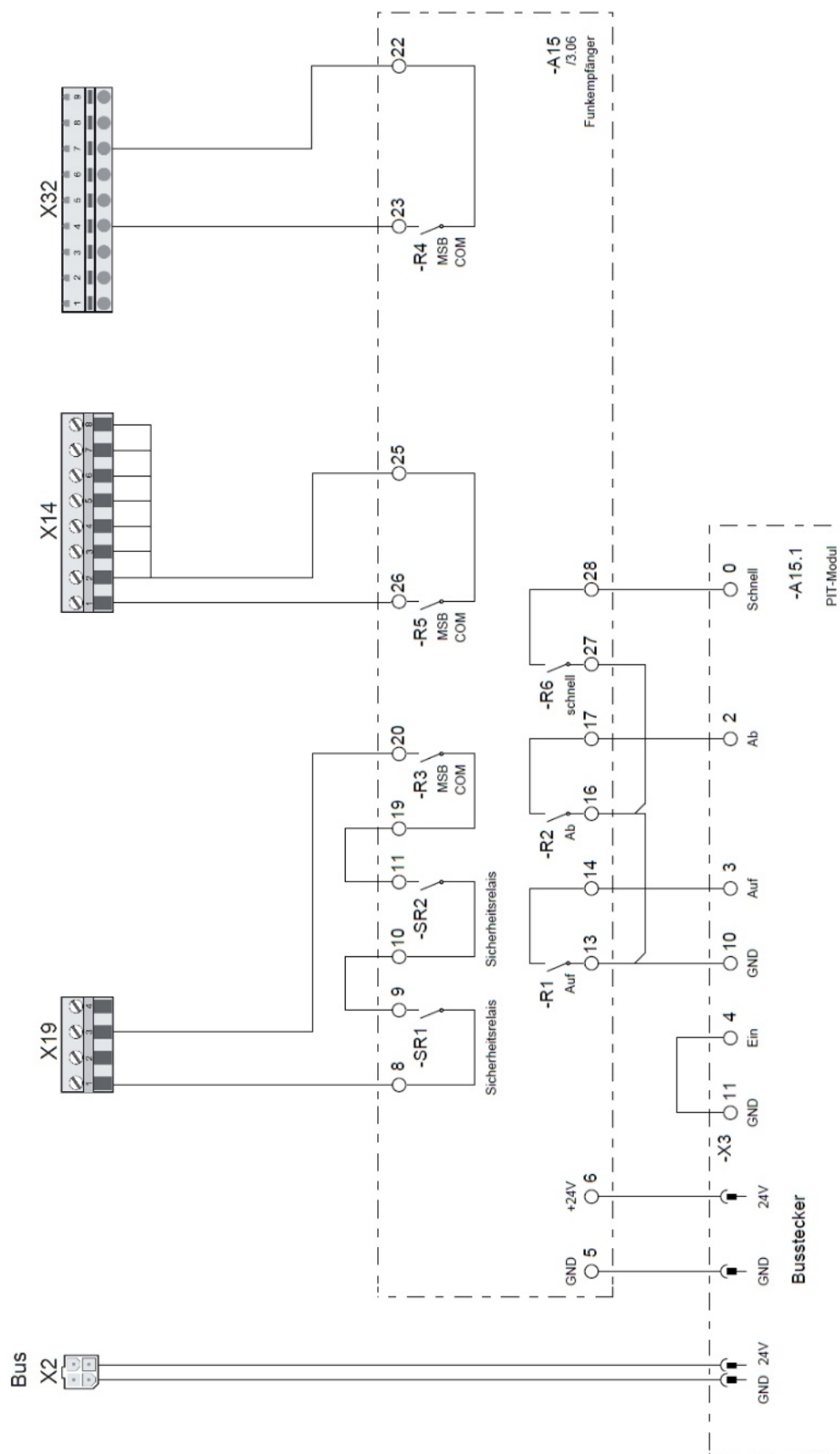


Abb. 3 MSB-RC wiring diagram

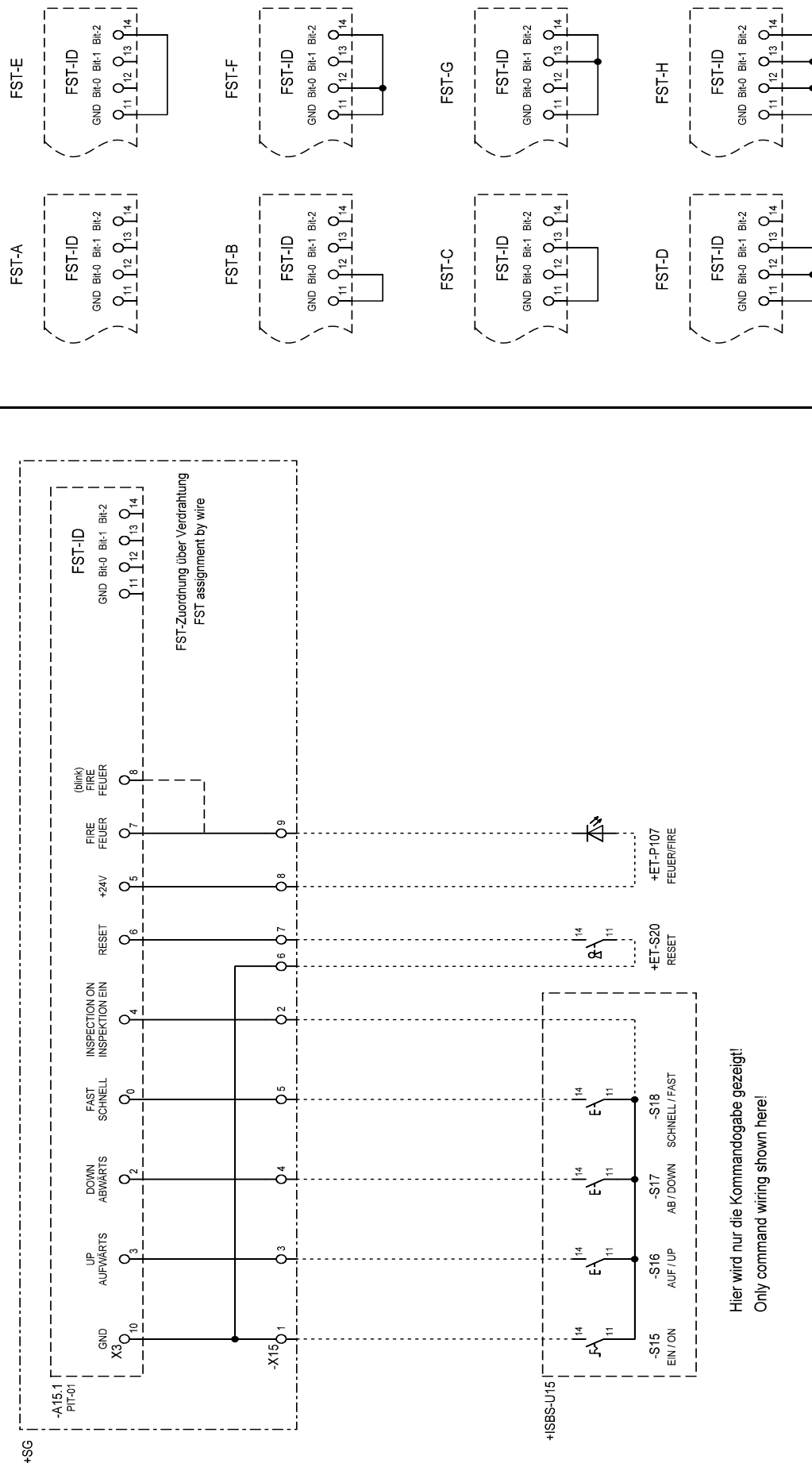
### 3.5 Configuration

To use the MSB-RC with lift groups, communication must be established between the receiver and the respective lift.

- ▶ Dismount the cover of the receiver:  
Loosen 4 fastening screws and remove cover.
- ▶ Place wire bridges on module A15 according to the following diagram (*see Fig. 4*).
- ▶ Mount cover.

The receiver can now communicate with the desired lift.

FST-Zuordnung über Verdrahtung (ab Version PIT-01 V04)  
FST assignment by wire (since version PIT-01 V04)



Hier wird nur die Kommandogabe gezeigt!  
Only command wiring shown here!

Abb. 4 Shaft pit inspection control, wiring principle

## NOTES

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