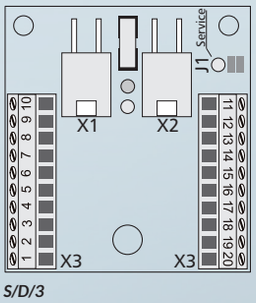
MANUAL

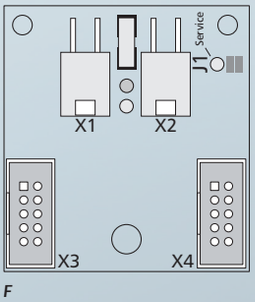
NEWLIFT
NEUE ELEKTRONISCHE WEGE

ADM$_S$ ADM$_D$ ADM$_3$
ADM$_F$ ADM$_M$
ADM$_{XK}$ ADM$_{XF}$

Landing call modules



S/D/3



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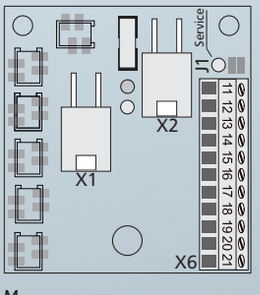

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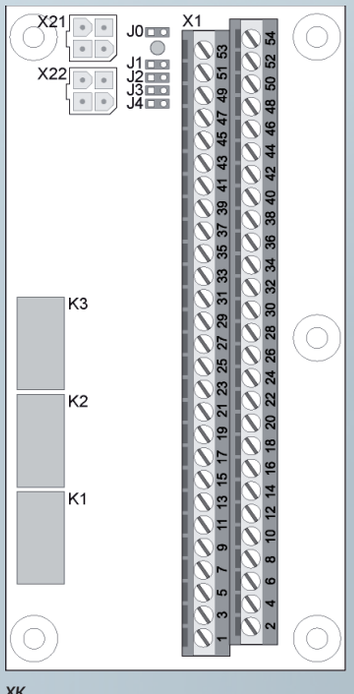
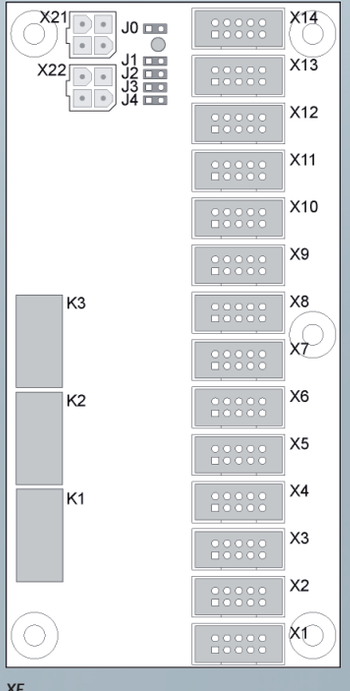


XK



XF

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ADM-XF: 2.0 / ADM-XK: 2.0

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1 About this manual

This manual contains all information about the technical data, operation and configuration of the ADM-S, ADM-D, ADM-3, ADM-F, ADM-M, ADM-XK and ADM-XF land call modules.

1.1 Abbreviations, characters and symbols used

Symbol / Abbreviations	Meaning
FST	Field bus controller
SAM	Speech Module
ADM	Landing call modul (landing button module); the landing call moduls control all components of the landing call panels, it means all buttons and display elements
FPM	Car panel module
P	Power
I	Input
O	Output
L	low activ
H	high activ
▶	**Operational instructions** Perform the tasks that follow this symbol in the specified order.
	Safety information This symbol is located in front of safety-relevant information.
	Information notice This symbol is located in front of relevant information.

1.2 Notation

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

1.3 Further information

The following documents, among others, are available for the FST control system and its components:

› EAZ TFT.45.110.210 Manual
› EAZ-256 Manual
› EN81-20 Manual
› FPM Manual
› FST-2XT/s Manual
› Update-Backup-Analysis Manual
› FST-2XT MRL Manual
› GST-XT Manual
› LCS Manual
› RIO Manual
› SAM Manual
› UCM-A3 Manual

These and other current manuals can be found in the download area of our website at https://www.newlift.de/downloads.html

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

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 land call modules 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.

This manual is a supplement to the FST manual and the FST Installation and Commissioning manual whose safety guidelines must always be observed.

2.2 Handling electronic components

Electrostatic charge

- ► Keep the electronic assembly in its original packaging until installation.
- ► Before opening the original packaging, a static discharge must be performed. To do this, touch a grounded piece of metal.
- ► During work on electronic assemblies, periodically perform this discharge procedure.
- ► All bus inputs and outputs that are not in use must be equipped with a terminator.

3 ADM-S and ADM-D land call module

The ADM-S and ADM-D land call modules form the interface between the landing call panel and FST control system. The ADM-S or ADM-D is connected to the FST via the LON bus. The ADM-S or ADM-D is typically installed on each floor.

Both modules are based on the same hardware and are available in the following software versions:

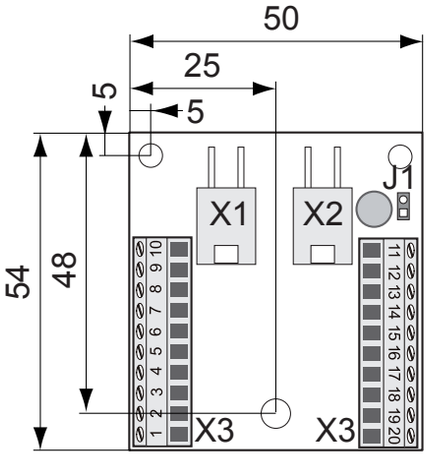
› ADM-S: ADM Single for individual lifts

› ADM-D: ADM Double for group lifts

The ADM-S or ADM-D are either installed and pre-wired in the landing call panel or delivered loose (to be installed in the shaft).

3.1 Technical data

Description	Value
Supply voltage	24 V DC ±10%
Typical power consumption	50 mA
Outputs	Short circuit-proof
Length x height x depth	50 x 54 x 20 mm
Temperature range: Storage & transport / operation	-20 – +70 °C / ±0 – +60 °C
Relative humidity: Storage & transport / operation (non-condensing)	+5 – +95 % / +15 – +85 %



ADM-S and ADM-D circuit board marking

3.2 Terminal assignment and configuration

3.2.1 Bus connection X1 and X2

ADM-S/.D X1 / X2	Cable colour	Designation
1	black	RS-485 LON bus A
2	white	RS-485 LON bus B
3	red	+24 V
4	violet	GND or 0V

3.2.2 Jumpers

Jumper J1 is not connected!

3.2.3 Terminal strip

ADM-S X3 ADM-D X3	ADM-S function / programming	ADM-D function / programming	Technical data
X3.1	+ 24 V	+ 24 V	Power
X3.2	Landing call UP	Landing call UP	I/O; L; 350 mA / 24 V
X3.3	Landing call DOWN	Landing call DOWN	I/O; L; 350 mA / 24 V
X3.4	Landing call release	Landing call release	O; L; 350 mA / 24 V
X3.5	+ 24 V	+ 24 V	Power
X3.6	Out-of-order, occupied display, special drive	Occupied display, left	O; L; 350 mA / 24 V
X3.7	Chime, floor position 5	Chime left, special drive	O; L; 350 mA / 24 V
X3.8	Direction UP	Direction UP left	O; L; 350 mA / 24 V
X3.9	Direction DOWN	Direction DOWN left	O; L; 350 mA / 24 V
X3.10	GND	GND	Power
X3.11	GND	GND	Power
X3.12	Key switch 1: fire recall, fire recall selective, fire recall reset, landing prio, landing prio selective, landing prio super, remote shutdown, remote shutdown selective, smoke alarm, soft switch	Key switch 1: fire recall, fire recall selective, fire recall reset, landing prio, landing prio selective, landing prio super, remote shutdown, remote shutdown selective, smoke alarm, soft switch	I; L
X3.13	Key switch 2: fire recall, fire recall selective, fire recall reset, landing prio, landing prio selective, landing prio super, remote shutdown, remote shutdown selective, smoke alarm, soft switch	Key switch 2: fire recall, fire recall selective, fire recall reset, landing prio, landing prio selective, landing prio super, remote shutdown, remote shutdown selective, smoke alarm, soft switch	I; L
X3.14	Floor position 4, landing prio display, soft output 0, soft output 1, acoustic click	Landing prio display, acoustic click	O; L; 350 mA / 24 V
X3.15	+ 24 V	+ 24 V	Power

ADM-S X3 ADM-D X3	ADM-S function / programming	ADM-D function / programming	Technical data
X3.16	Floor position bit 0	Direction DOWN right	O; L; 350 mA / 24 V
X3.17	Floor position bit 1	Direction UP right	O; L; 350 mA / 24 V
X3.18	Floor position bit 3	Occupied display, right	O; L; 350 mA / 24 V
X3.19	Floor position bit 2	Chime right, special drive	O; L; 350 mA / 24 V
X3.20	GND	GND	Power

The values in the table correspond to the factory settings.

Terminals can have several functions. Some of them can be set at the factory. The function „direction“ can be configured in the FST menu as a direction of travel output or a travel continuation output. The terminals labelled with key switches 1 and 2 can be set at the factory with the functions fire recall, smoke alarm, remote shutdown and priority landing. Other I/O functions can be set using the software tools (for example *LON Module Center*) and can differ from the table values.

See https://www.newlift.de/downloads.html at manuals/FST-xxx installation and commissioning guide

Information about set functions can be found in system-specific wiring diagrams.

3.2.4 LED

LED	Colour	State	Description
LD1	yellow	briefly flashes after switched on	ADM ready
		flashing or permanently illuminated	hardware error

4 ADM-3 land call module

The ADM-3 land call modul forms the interface between the landing call panel and FST control system. The ADM-3 is connected to the FST via the LON bus. The ADM-3 is typically installed on each floor.

The ADM-3 land call modul combines the modules ADM-S and ADM-D.

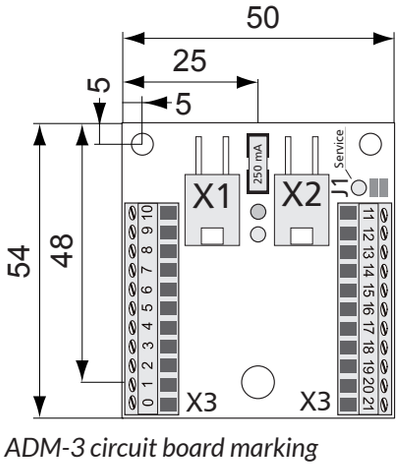
Characteristics of the hardware:

› sunken yellow Service-LED
› service pin as contact area
› sunken red LED between X1 and X2
› sunken green LED between X1 and X2
› micro fuse 250 mA between X1 and X2
› additional connections X3.0 and X3.21

To increase the functionality the module is also available as ADM-3 with the software *ADM-F*$_{lexible}$. *See chapter "5 Landing call modul ADM-F" on page 13*. The ADM-3 is either installed and pre-wired in the landing call panel or delivered loose (to be installed in the shaft).

4.1 Technical data

Description	Value
Supply voltage	24 V DC ±10%
Typical power consumption	50 mA
Outputs	Short circuit-proof
Length x height x depth	50 x 54 x 20 mm
Temperature range: Storage & transport / operation	-20 – +70 °C / ±0 – +60 °C
Relative humidity: Storage & transport / operation (non-condensing)	+5 – +95 % / +15 – +85 %



ADM-3 circuit board marking

4.2 Terminal assignment and configuration

4.2.1 Bus connection X1and X2

ADM-3 X1 / X2	Cable colour	Designation
1	black	RS-485 LON bus A
2	white	RS-485 LON bus B
3	red	+24 V
4	violet	GND or 0V

4.2.2 Jumper

At the position of J1 two contact areas are on the module as replacement jumper. No configuration is required.

4.2.3 Terminal strip

The function single or double will be active via the FST-Menu.

ADM-3 X3	ADM-S function / programming	ADM-D function / programming	Technical data
X3.0	Attika, bank controlle mode with user-groups, prio selective call	prio selective call	
X3.1	+ 24 V	+ 24 V	Power
X3.2	Landing call UP	Landing call UP	I/O; L; 350 mA / 24 V
X3.3	Landing call DOWN	Landing call DOWN	I/O; L; 350 mA / 24 V
X3.4	Landing call release	Landing call release	O; L; 350 mA / 24 V
X3.5	+ 24 V	+ 24 V	P
X3.6	Out-of-order, occupied display, special drive	Occupied display, left	O; L; 350 mA / 24 V
X3.7	Chime, floor position 5	Chime left, special drive	O; L; 350 mA / 24 V
X3.8	Direction UP	Direction UP left	O; L; 350 mA / 24 V
X3.9	Direction DOWN	Direction DOWN left	O; L; 350 mA / 24 V
X3.10	GND	GND	Power
X3.11	GND	GND	Power
X3.12	Key switch 1: fire recall, fire recall selective, fire recall reset, landing prio, landing prio selective, landing prio super, remote shutdown, remote shutdown selective, smoke alarm, soft switch	Key switch 1: fire recall, fire recall selective, fire recall reset, landing prio, landing prio selective, landing prio super, remote shutdown, remote shutdown selective, smoke alarm, soft switch	I; L

ADM-3 X3	ADM-S function / programming	ADM-D function / programming	Technical data
X3.13	Key switch 2: fire recall, fire recall selective, fire recall reset, landing prio, landing prio selective, landing prio super, remote shutdown, remote shutdown selective, smoke alarm, soft switch	Key switch 2: fire recall, fire recall selective, fire recall reset, landing prio, landing prio selective, landing prio super, remote shutdown, remote shutdown selective, smoke alarm, soft switch	I; L
X3.14	Floor position 4, landing prio display, soft output 0, soft output 1, acoustic click	Landing prio display, acoustic click	O; L; 350 mA / 24 V
X3.15	+ 24 V	+ 24 V	Power
X3.16	Floor position bit 0	Direction DOWN right	O; L; 350 mA / 24 V
X3.17	Floor position bit 1	Direction UP right	O; L; 350 mA / 24 V
X3.18	Floor position bit 3	Occupied display, right	O; L; 350 mA / 24 V
X3.19	Floor position bit 2	Chime right, special drive	O; L; 350 mA / 24 V
X3.20	GND	GND	Power
X3.21	Attika, bank controlle mode with user-groups, prio selective call, Soft-Output 0	prio selective call	

The values in the table correspond to the factory settings.

Terminals can have several functions. Some of them can be set at the factory. The function „direction“ can be configured in the FST menu as a direction of travel output or a travel continuation output.

The terminals labelled with key switches 1 and 2 can be set at the factory with the functions fire recall, smoke alarm, remote shutdown and priority landing. Other I/O functions can be set using the software tools (for example *LON Module Center*) and can differ from the table values.

See https://www.newlift.de/downloads.html at manuals/FST-xxx installation and commissioning guide
Information about set functions can be found in system-specific wiring diagrams.

4.2.4 LED and micro fuse

Colour	State	Description
yellow	briefly flashing after beeing switched on	ADM ready
	flashing or permanently illuminated	hardware error
green	flashing	normal function
red	permanently illuminated	ADM damaged, replace it

The micro fuse with 250 mA is placed on the top of the board and serves to protect the assembly. If the micro fuse is damaged, the red LED between the two connectors X1 and X2 will illuminate.

5 Landing call modul ADM-F

The landing call modul ADM-F forms the interface between the landing call panel and FST control system. The ADM-F is connected to the FST via the LON bus. The ADM-F is typically installed on each floor.

Hardware, Software

The ADM-F corresponds in its functionality to the ADM-3. In the version of the hardware the modul is distinguished by the flat connector. Terminal strips have been replaced by the box headers.

The Software of the ADM-F, called *ADM-Flexible,* can also be used on the hardware ADM-3. This results in the flexibility and functionality, independently if the flat connectors or screw connections are used.

Module	Type
ADM-F	Software *ADM-Flexible* on hardware ADM-F (flat connector)
ADM-3	Software *ADM-Flexible* on hardware ADM-3 (screw connection)

Characteristics of the hardware of the ADM-F:

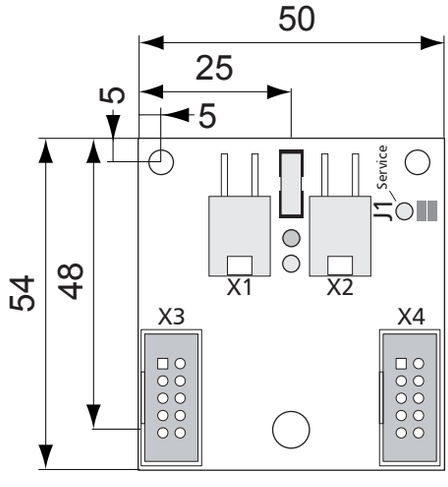
› sunken yellow Service-LED
› Service-Pin as contact area
› sunken red LED between X1 and X2
› sunken green LED between X1 and X2
› micro fuse 250 mA between X1 and X2
› additional connection X3.0 and X3.21
› two 10 pin flat connectors each with
  »8 freely programmable bi-directional ports
  »24V- and GND-supply
› the support of up to 34 different
  »I/O functions and
  »programmable outputs

The ADM-F is flexible at use

› as FPM replacement or extension
› as FPM for car operating panel for handicapped people
› as a replacement for ADM-X,
so that in a the landing call panel several Hall / Call destination buttons are available.

5.1 Technical data

Description	Value
Supply voltage	24 V DC ±10%
Typical power consumption	50 mA
Outputs	short circuit proof
Length x Hight x Depth	50 x 54 x 20 mm
Temperature range: Storage & Transportation / Operation	-20 – +70 °C / ±0 – +60 °C
Relative humidity: Storage & Transportation / Operation (non-condensing)	+5 – +95 % / +15 – +85 %



ADM-F circuit board marking

5.2 Pin assignment and configuration

5.2.1 Bus connection X1 and X2

ADM-F X1 / X2	Cable colour	Description
1	black	RS-485 LON-Bus A
2	white	RS-485 LON-Bus B
3	red	+24 V
4	violet	GND or 0V

5.2.2 Jumper

At the position of J1 two contact areas are on the module as replacement jumper. No configuration is required.

5.2.3 Terminal strip

ADM-F	ADM-F$_{lexible}$ / ADM-3	Pin assignment	Technical data
X3.1	X3.0	programmable port #1	I/O; L; 350 mA / 24 V
X3.2	X3.2	programmable port #2	I/O; L; 350 mA / 24 V
X3.3	X3.3	programmable port #3	I/O; L; 350 mA / 24 V
X3.4	X3.4	programmable port #4	I/O; L; 350 mA / 24 V
X3.5	X3.5	programmable port #5	I/O; L; 350 mA / 24 V
X3.6	X3.6	programmable port #6	I/O; L; 350 mA / 24 V
X3.7	X3.7	programmable port #7	I/O; L; 350 mA / 24 V
X3.8	X3.8	programmable port #8	I/O; L; 350 mA / 24 V
X3.9	X3.9	GND	Power
X3.10	X3.1/5	+ 24 V	Power

ADM-F	ADM-F$_{lexible}$ / ADM-3	Pin assignment	Technical data
X4.1	X3.12	programmable port #9	I/O; L; 350 mA / 24 V
X4.2	X3.13	programmable port #10	I/O; L; 350 mA / 24 V
X4.3	X3.14	programmable port #11	I/O; L; 350 mA / 24 V
X4.4	X3.16	programmable port #12	I/O; L; 350 mA / 24 V
X4.5	X3.17	programmable port #13	I/O; L; 350 mA / 24 V
X4.6	X3.18	programmable port #14	I/O; L; 350 mA / 24 V
X4.7	X3.19	programmable port #15	I/O; L; 350 mA / 24 V
X4.8	X3.21	programmable port #16	I/O; L; 350 mA / 24 V
X4.9	X3.11/20	GND	Power
X4.10	X3.15	+ 24 V	Power

The actual programming results from the individual requirements.

► If necessary, talk to our service line.

Programmable ports

Each port can be programmed for one of the following functions:

› landing calls buttons and acknowledgement for the floor 0..63, door A/B, direction UP/DOWN
› RIO-Port [70] (input/output)
› RIO-Port [71] (input/output)
› direction of travel UP/DOWN for FST-ID of the module
› continue UP/DOWN for the floor 0..63 and independently of the floor for FST-ID of the module
› remote shutdown (selective/not selective)
› landing priority for the floor 0..63, door A/B, without/with safety option (single lift)
› super prio for the floor 0..63, door A/B (in the group)
› EAZ bits for 3-rd party display (encoder such as ADMs)
› landing control OFF
› fire alarm
› smoke alarm
› fire recall reset
› loading button for the floor 0..63, door A/B and independently of the floor
› lift HERE for automatic and manual doors
› door open button and acknowledgement for the floor 0..63, door A/B and independently of the floor
› door close button and acknowledgement for the floor 0..63, door A/B and independently of the floor
› car call button and acknowledgement for the floor 0..63, door A/B, optionally with bypass car calls lock
› SDS button and acknowledgement for the floor 0..63, door A/B
› programmable output *see „Programmable outputs“ on page 18*
› door opening on the floor 0..63 and independently of the floor for the door A/B
› door closing on the floor 0..63 and independently of the floor for the door A/B
› door in operation on the floor 0..63 and independently of the floor for the door A/B
› door is open on the floor 0..63 and independently of the floor for the door A/B
› door was open on the floor 0..63 and independently of the floor for the door A/B
› car priority for the door A/B for use in desk-shaped fixtures
› car calls buttons for handicapped people and acknowledgement for the floor 0..63, door A/B, optionally with bypass car calls lock
› floor position
› car ventilator button
› entrance area monitoring for the floor 0..63 and independently of the floor for the door A/B
› attika button and acknowledgement for the floor 0..63, door A/B
› bank button and acknowledgement for the floor 0..63, door A/B, UP/DOWN, user group 0..31
› soft switch for the floor 0..63, door A/B
› output target floor for the floor 0..63
› send car call for the floor 0..63, the door A/B only with closed doors
› selective landing calls buttons and acknowledgement for the floor 0..63, door A/B, direction UP/DOWN
› landing calls buttons for handicapped people and acknowledgement for the floor 0..63, door A/B, direction UP/DOWN
› landing calls buttons and acknowledgement with bypass from landing calls lock for the floor 0..63, door A/B, direction UP/DOWN

Programmable outputs

Each output can be programmed for one of the following functions:

› fire recall
› fireman
› fire recall or fireman
› car priority
› landing priority
› car or landing priority
› super prio
› out of order
› overload
› occupied
› load mode
› less than 20s loading time
› one door is open
› car is moving
› CUSTOM bits
› release landing call
› release car call
› soft-output 0
› soft-output 1
› acoustic acknowledgement (click) for landing calls
› acoustic acknowledgement (click) for car calls
› acoustic acknowledgement (click) for landing or car calls
› acoustic acknowledgement (click) for car operating panel
› acoustic acknowledgement (click) for all buttons
› secondary release car call
› status landing control OFF
› error DRM runtime monitoring
› error DRM emergency stop
› status remote shutdown
› status full load
› status evacuation
› soft-output 0 inverted
› soft-output 1 inverted (from version V22)
› overload flashing (from version V24)

5.2.4 LEDs and micro fuse

Colour	State	Description
yellow	briefly flashing after beeing switched on	ADM ready
	flashing or permanently illuminated	hardware error
green	flashing	normal function
red	permanently illuminated	ADM damaged, replace it

The micro fuse with 250 mA is placed on the top of the board and serves to protect the assembly. If the micro fuse is damaged, the red LED between the two connectors X1 and X2 will illuminate.

6 ADM-M land call modul

The ADM-M land call modul forms the interface between the landing call panel and FST control system. The ADM-M is connected to the FST via the LON bus. The ADM-3 is typically installed on each floor.

The module can be used as ADM-S as well as ADM-D.

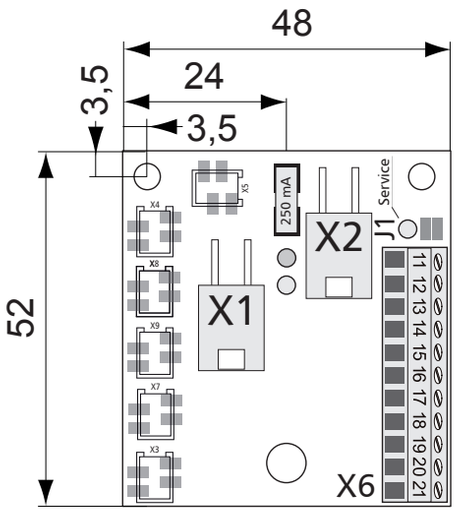
Characteristics of the hardware are:

› Micro-Match plug for plug & play connection of
  » control elements (Call UP/DOWN) and
  » display elements (UP/DOWN/Occupied)
› sunken yellow Service-LED
› service pin as contact area
› sunken red LED between X1 and X2
› sunken green LED between X1 and X2
› micro fuse 250 mA between X1 and X2
› additional connection of key switch, acoustic click etc. on the terminal strip X6

The ADM-M is either installed and pre-wired in the landing call panel or delivered loose (to be installed in the shaft).

6.1 Technical data

Description	Value
Supply voltage	24 V DC ±10%
Typical power consumption	50 mA
Outputs	Short circuit-proof
Length x height x depth	50 x 54 x 20 mm
Temperature range: Storage & transport / operation	-20 – +70 °C / ±0 – +60 °C
Relative humidity: Storage & transport / operation (non-condensing)	+5 – +95 % / +15 – +85 %



ADM-M circuit board marking

6.2 Terminal assignment and configuration

6.2.1 Bus connection X1, X2

ADM-M X1 / X2	Cable colour	Designation
1	black	RS-485 LON bus A
2	white	RS-485 LON bus B
3	red	+24 V
4	violet	GND or 0V

6.2.2 Jumper

At the position of J1 two contact areas are on the module as replacement jumper. No configuration is required.

6.2.3 Terminal strip

ADM-M X6	Standard Programming
X6.11	GND
X6.12	Key switch 1: fire recall, fire recall selective, fire recall reset, landing prio, landing prio selective, landing prio super, remote shutdown, remote shutdown selective, smoke alarm, soft switch
X6.13	Key switch 2: fire recall, fire recall selective, fire recall reset, landing prio, landing prio selective, landing prio super, remote shutdown, remote shutdown selective, smoke alarm, soft switch
X6.14	acoustic click
X6.15	+24V
X6.16	direction DOWN

ADM-M X6	Standard Programming
X6.17	direction UP
X6.18	Key switch 3
X6.19	currently without function
X6.20	GND
X6.21	currently without function

6.2.4 Micromatch

ADM-M	Standard Programming
X3 Pin 1 X3 Pin 2/3 X3 Pin 4	landing call release Call UP +24V
X4 Pin 1 X4 Pin 2/3 X4 Pin 4	landing call release Call DOWN +24V
X5 Pin 2/3 X5 Pin 4	Out-of-order, special drive, occupied display left, chime, EAZ BIT5, chime left, special drive left +24V
X7 Pin 2/3 X7 Pin 4	direction UP +24V
X8 Pin 2/3 X8 Pin 4	direction DOWN +24V
X9 Pin 1 X9 Pin 2/3 X9 Pin 4	direction UP +24V direction DOWN

Terminals can have several functions. Some of them can be set at the factory. The function „direction“ can be configured in the FST menu as a direction of travel output or a travel continuation output.

The terminals labelled with key switches 1 and 2 can be set at the factory with the functions fire recall, smoke alarm, remote shutdown and priority landing.

Other I/O functions can be set using the software tools (for example *LON Module Center*) and can differ from the table values.

See *https://www.newlift.de/downloads.html*

6.2.5 LED and micro fuse

colour	State	Description
yellow	briefly flashes after beeing switched on	ADM ready
	flashing or permanently illuminated	hardware error
green	flashing	normal function
red	permanently illuminated	ADM damaged, replace it

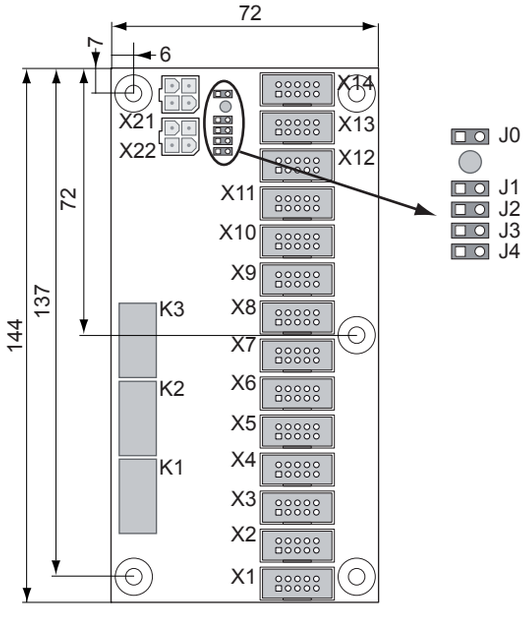
The micro fuse with 250 mA is placed at the front of the module und protecs the circuit board. If the micro fuse is damaged, the red LED between connector X1 and X2 will illuminate permanently.

7 ADM-XF land call module

The ADM-XF controls the connected landing call panels via separate ribbon cable. The ADM-XF is installed once in the control system and, from there, controls the buttons and direction indicators for up to 14 floors.

7.1 Technical data

Description	Value
Supply voltage	24 V DC ±10%
Typical power consumption	50 mA
Outputs	Short circuit-proof
Length x height x depth	72 x 144 x 15 mm
Temperature range: Storage & transport / operation	-20 – +70 °C / ±0 – +60 °C
Relative humidity: Storage & transport / operation (non-condensing)	+5 – +95 % / +15 – +85 %



ADM-XF circuit board marking

7.2 Installation and wiring

The ADM-XF is installed in the control cabinet and fixed in place there with threaded bolts. The wiring of the landing call panels is carried out using prefabricated ribbon cable during on-site installation.

The ADM-XK is connected to the shaft bus (FST X5 and X6) and supplied via the FST X4 (X4.1: +24 V, X4.2: GND).

NEW item number	Cable length	Designation
50-08010	11 m + 15 m	Ribbon cable for ADMX landing call 11 m + 15 m
50-08011	19 m	Ribbon cable for ADMX landing call 19 m
50-08012	23 m	Ribbon cable for ADMX landing call 23 m
50-08013	27 m	Ribbon cable for ADMX landing call 27 m
50-08014	31 m	Ribbon cable for ADMX landing call 31 m
50-08015	35 m	Ribbon cable for ADMX landing call 35 m
50-08016	39 m	Ribbon cable for ADMX landing call 39 m
50-08017	43 m	Ribbon cable for ADMX landing call 43 m
50-08018	47 m	Ribbon cable for ADMX landing call 47 m

7.3 Terminal assignment and configuration

°: 14 x 25 mA or 350 mA in total
*: 14 x 40 mA or 560 mA in total

7.3.1 Bus connection X21, X22

ADM-XF X21 / X22	Cable colour	Designation
1	black	RS-485 LON bus A
2	white	RS-485 LON bus B
3	red	+24 V
4	violet	GND or 0V

7.3.2 Terminal strips

X1 ... X14	Function	Wire colour	Technical data
1	+24 V	white (wh)	Power
2	Landing call UP	brown (br)	I/O; L; 250 mA / 24 V
3	Landing call DOWN	green (gn)	I/O; L; 250 mA / 24 V
4	Release	yellow (ye)	O; L; 25 mA / 24 V °
5	Occupied indicator	grey (gr)	O; L; 40 mA / 24 V *
6	Direction UP	pink (pk)	O; L; 40 mA / 24 V *
7	Direction DOWN	blue (bl)	O; L; 40 mA / 24 V *
8	Key switch 1	red (rd)	I; L
9	Key switch 2	black (bk)	I; L
10	GND	purple (pr)	Power

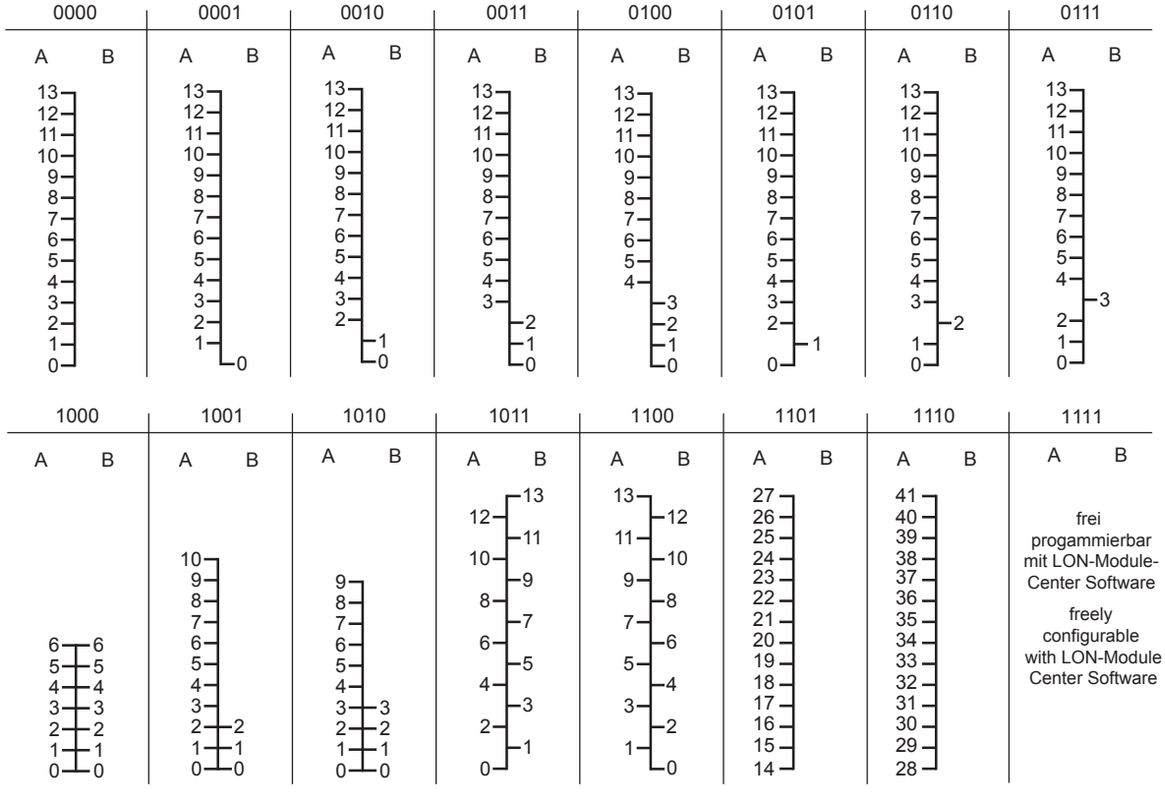
7.3.3 Jumpers

The jumpers determine the assignment of the plug connections to the floors and door sides of the lift.

J4	J3	J2	J1	Binary value
open	open	open	open	0000
open	open	open	plugged	0001
open	open	plugged	open	0010
open	open	plugged	plugged	0011
open	plugged	open	open	0100
open	plugged	open	plugged	0101
open	plugged	plugged	open	0110
open	plugged	plugged	plugged	0111
plugged	open	open	open	1000
plugged	open	open	plugged	1001
plugged	open	plugged	open	1010
plugged	open	plugged	plugged	1011
plugged	plugged	open	open	1100
plugged	plugged	open	plugged	1101
plugged	plugged	plugged	open	1110
plugged	plugged	plugged	plugged	1111

7.3.4 Floor and door side assignment

The following configurations can be selected by setting jumpers J1 - J4.



Door plan for floor and door assignment

The following table lists the floor and door side assignment with corresponding connectors X1 - X14 and the binary value. With the binary value 1111, an individual floor and door assignment is activated by the LON Module Center software.

ADM-XF	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110
X1	0A	0B	0B	0B	0B	0A	0A	0A	0A	0A	0A	0A	0B	14A	28A
X2	1A	1A	1B	1B	1B	1B	1A	1A	1A	1A	1A	1B	1A	15A	29A
X3	2A	2A	2A	2B	2B	2A	2B	2A	2A	2A	2A	2A	2B	16A	30A
X4	3A	3A	3A	3A	3B	3A	3A	3B	3A	3A	3A	3B	3A	17A	31A
X5	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4B	18A	32A
X6	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	5B	5A	19A	33A
X7	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6B	20A	34A
X8	7A	7A	7A	7A	7A	7A	7A	7A	0B	7A	7A	7B	7A	21A	35A
X9	8A	8A	8A	8A	8A	8A	8A	8A	1B	8A	8A	8A	8B	22A	36A
X10	9A	9A	9A	9A	9A	9A	9A	9A	2B	9A	9A	9B	9A	23A	37A
X11	10A	10A	10A	10A	10A	10A	10A	10A	3B	10A	0B	10A	10B	24A	38A
X12	11A	11A	11A	11A	11A	11A	11A	11A	4B	0B	1B	11B	11A	25A	39A
X13	12A	12A	12A	12A	12A	12A	12A	12A	5B	1B	2B	12A	12B	26A	40A
X14	13A	13A	13A	13A	13A	13A	13A	13A	6B	2B	3B	13B	13A	27A	41A

Examples

Lift with 4 floors, 2 selective door sides → 1000 or 1010
Lift with 3 floors, 3rd floor at door B → 0110, 1000, 1001 or 1010
Lift with 7 floors, 4th floor at door B (courtyard) → 0111, 1000 or 1010
Lift with 12 floors, only one door side → 0000
Lift with 10 floors, bottom 4 floors at door B
(underground parking) → 0100 or 101021
Lift with 7 floors, 2nd and 3rd floor at door B (storage) → 1000, 1001 or 1010
Lift with 23 floors, only one door side → 1st ADM: 0000; 2nd ADM: 1101

The release signal prevents the acknowledgement lamp from illuminating when the landing control is switched off. The occupied displays are automatically switched on if the bus communication fails.

7.3.5 LED

LED	Colour	State	Description
LD1	yellow	briefly flashes after switching on	ADM ready
		flashing or permanently illuminated	hardware error

The yellow service LED signals the readiness of the ADM-XK by a short flash when the power supply is switched on. A blinking LED, however, indicates an error.

7.3.6 Configuration of the key switch inputs

Pins 8 and 9 are each looped on terminal strips X1 - X14, i.e. only two freely configurable functions can be programmed for the key switches.

Here the input function for pin 8 is configured via I/O port #70 and the input function for pin 9 via I/O port #71 of the FST.

It should be noted that only floor-independent functions can be programmed, because the selected input function is the same for all floors. The programming of (exclusively) free inputs is done via the FST menu under `Menu / Configuration / I/O Configuration / I/O ports / RAW = XXXXXXXX`

Example

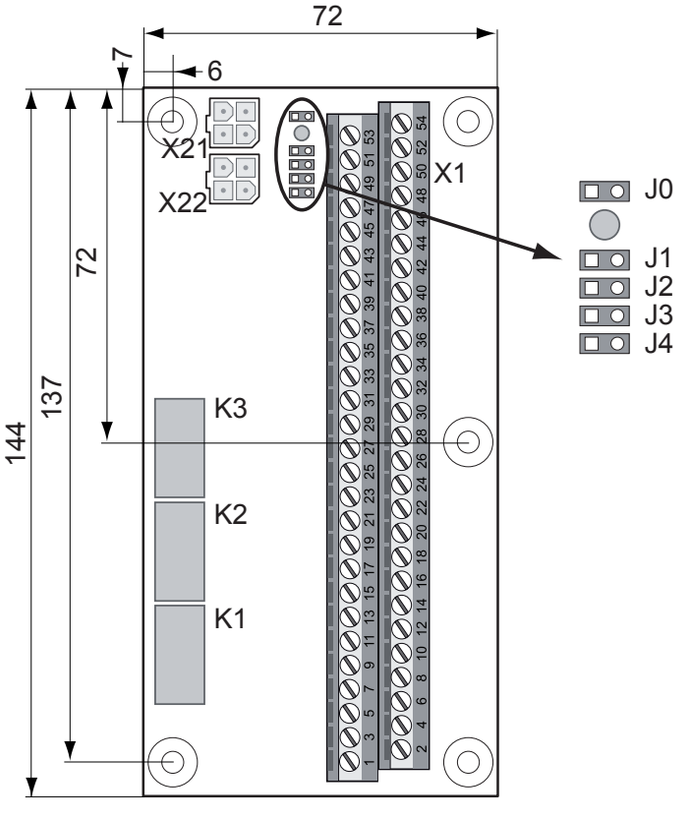
Xn.8 = remote shutdown (n = 1 – 14) → I/O ports [70] RAW = 0000001A
Xn.9 = fire recall floor 0 (n = 1 – 14) → I/O ports [71] RAW = 00000012

8 ADM-XK land call module

The ADM-XK controls the connected landing call panels via the control cables connected to X1. The ADM-XK is installed once in the control system and, from there, controls the buttons and directional displays for up to 14 floors (2 buttons).

8.1 Technical data

Description	Value
Supply voltage	24 V DC ±10%
Typical power consumption	50 mA
Outputs	Short circuit-proof
Length x height x depth	72 x 144 x 15 mm
Temperature range: Storage & transport / operation	-20 – +70 °C / ±0 – +60 °C
Relative humidity: Storage & transport / operation (non-condensing)	+5 – +95 % / +15 – +85 %



ADM-XK circuit board marking

8.2 Installation and wiring

The ADM-XK can be installed in the control cabinet and fixed in place there with threaded bolts. As an alternative, it can also be mounted in a suitable housing outside the control cabinet. The wiring of the landing call panels is carried out locally during on-site installation.

The ADM-XK is connected to the shaft bus (FST X5 and X6) and supplied via the FST X4 (X4.1: +24 V, X4.2: GND).

8.3 Terminal assignment and configuration

°: 5 x 70 mA or 350 mA in total
*: 4 x 140 mA or 560 mA in total

8.3.1 Bus connection X21, X22

ADM-XK X21 / X22	Colour code	Signal / function
1	black	RS-485 LON Bus "A"
2	white	RS-485 LON Bus "B"
3	red	+24V supply
4	violet	GND or 0V supply

8.3.2 Terminal strip X1

Terminal	Function	Technical data
1, 3, 5, 7	Occupied display	O; L; 140 mA / 24 V *
2, 6	GND	Power
4	Key switch 2 (switched in parallel or jointly used with terminal 8 - 16, 18, 20, 22, 24, 26)	I; L
8	Key switch 1	I; L
9, 11, 13, 15	Direction UP	O; L; 140 mA / 24 V *
10, 12, 14, 16	Direction DOWN	O; L; 140 mA / 24 V *
17, 19, 21, 23, 25	+24V	Power
18, 20, 22, 24, 26	Release	O; L; 70 mA / 24 V °
27	Landing call 00 UP	I/O; L; 250 mA / 24V
28	Landing call 00 DOWN	I/O; L; 250 mA / 24V
29, 31, ..., 53	Landing call 01 UP, landing call 02 UP, ... landing call 13 UP	I/O; L; 250 mA / 24V
30, 32, ..., 54	Landing call 01 DOWN, landing call 02 DOWN, ..., landing call 13 DOWN	I/O; L; 250 mA / 24V

8.3.3 Jumpers

The J1 - J4 jumpers determine the assignment of the plug connections to the floors and door sides of the lift. The jumpers are set according to the following diagram and are set to the defaults on delivery:

J4	J3	J2	J1	Binary value
open	open	open	open	0000
open	open	open	plugged	0001
open	open	plugged	open	0010
open	open	plugged	plugged	0011
open	plugged	open	open	0100
open	plugged	open	plugged	0101
open	plugged	plugged	open	0110
open	plugged	plugged	plugged	0111
plugged	open	open	open	1000
plugged	open	open	plugged	1001
plugged	open	plugged	open	1010
plugged	open	plugged	plugged	1011
plugged	plugged	open	open	1100
plugged	plugged	open	plugged	1101
plugged	plugged	plugged	open	1110
plugged	plugged	plugged	plugged	1111

8.3.4 Floor and door side assignment

Identical to ADM-XF. *See chapter "7.3.4 Floor and door side assignment" on page 24.*

8.3.5 LED

LED	Colour	State	Description
LD1	yellow	flashes briefly	ADM ready
		flashing or permanently illuminated	hardware error

The yellow service LED signals the readiness of the ADM-XK by a short flash when the power supply is switched on. A blinking LED, however, indicates an error.

8.3.6 Configuration of the key switch inputs

Two freely configurable functions can be programmed for the key switches. Here the input function for terminal X1.8 is configured via I/O port #70 and the input function for terminal X1.4 via I/O port #71 of the FST.

It should be noted that only floor-independent functions can be programmed, because the selected input function is the same for all floors. The programming of (exclusively) free inputs is done via the FST menu under `Menu / Configuration / I/O Configuration / I/O ports / RAW = XXXXXXXX`

Example

Xn.8 = Remote shutdown (n = 1 – 14) → I/O Ports [70] RAW = 0000001A
Xn.9 = Fire recall floor 0 (n = 1 – 14) → I/O Ports [71] RAW = 00000012

NOTES

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