

Emergency intercoms for elevators

**BFA**

Power supplies

**NSB**

Short description

**REKOB**

Relais- und Fernmeldetechnik GmbH

Ederstraße 6 12059 Berlin

Postfach 21 54 12002 Berlin

Tel.: (030) 689 98-0 Fax: (030) 689 98-13

E-Mail: [info@rekoba.de](mailto:info@rekoba.de)

[www.rekoba.de](http://www.rekoba.de)

## 1 General

**BFA** intercom systems serve for signalization of emergency calls from elevators and communication to machine room and one or more porter stations within a building. They could be enlarged for several additional units like intercoms on roof of cabin, in bottom of shaft or in entrance area of a building for fire services.

The alarm receiving station („porter station“) could be assembled as a combined unit for emergency calls and disturbance signals, e.g. for indication of disturbances from elevator- and operational-installations like heating or climate.

All emergency intercoms may be supplied from mains power packs or mains power packs with backup batteries (auxiliary power supplies).

### Performance survey

Function		BFA4 A simple system for one lift	BFA6 An economic system for several lifts	BFA16 An universsl system for any number of lifts
Amount of connectable cabins		1	maximum of 6	any
Amount of connectable porter stations		1	max. 4 in parallel (BFA6: with z2) or using service selector z4	
Operation voltage		6, 12 or 24Vdc	24Vdc	
Construction of porter's station		onto wall / table; plastic housing of dark brown, or light grey or white	onto wall / table; plastics housing in dark brown or light grey	mounting into table / wall; anodized frontplate of aluminium with buttons and moulded phone in brown, grey or white
Communication facility between porter and machine room		no	with supplement <b>z3</b> („Conference calling“)	with <b>z3</b> or MR-units <b>M16A21...</b>
Communication facility between porters		no	with supplement <b>z3</b> only	
Audible signal		during pressing emergency button in cabin or permanent signal	during emergency call or permanent signal with supplement <b>z10</b>	
Optical signal		yes	yes, blink signal	
Service selector		no	with supplement <b>z4</b>	
Call transfer circuit		no	no	with supplement <b>z7</b>
Eavesdrop prevention		with supplement <b>z8</b>	with supplement <b>z8</b>	
Range		6V approx. 300m 12+24V approx. 1000m	approx. 1000m	
Emerg. call storage		yes, in porter unit	in porter station	in separate relay station
I N  A D D I T I O N	Fire service intercom	yes	yes	yes
	Cabin roof intercom	yes	yes	yes
	Plug-in intercom set	yes	yes	yes
	Additional external signals	yes	yes	yes
	wide freedom of design	no	no	yes
	Mounting of external switches etc.	no	no	yes

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## 2 Emergency intercoms

### 2.1 Emergency intercom system BFA 4

The porter station **P4A1** for single lifts contains a storage for emergency calls with optical indication and serves to operation voltages of 10...24Vdc resp. switchable to 6Vdc. A green LED indicates ready state of intercom.

After pressing the emergency call button in cabin the call is stored in porter station and indicated by red LED. At the same time the built-in buzzer sounds permanent until lifting the handset. Chooseable by switch this signal could be limited to contact time of button.

After lifting the handset a communication to cabin is possible. As option, an eavesdrop prevention could be included. This enables listening into cabin after operated alarm button only.

For hooking-on handset after communication the alarm storage is erased.

The printed circuit board (PCB) is mounted into a housing of plastics for mounting onto wall. The housing is available in following colours:

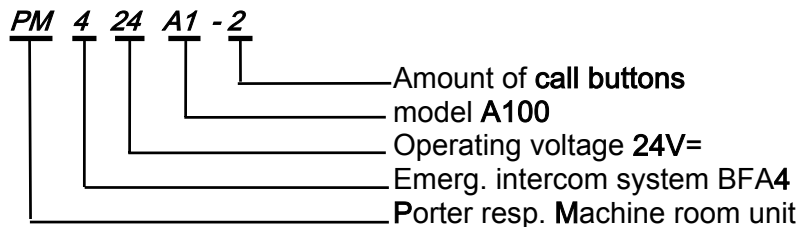
	Order-no.
* dark brown (approx. RAL8017; standard)	<b>P4A1</b>
* light grey (approx. RAL7035)	<b>P4A1GR</b>
* white (approx. RAL9010)	<b>P4A1WS</b>

Without call storage and without optical indication following intercoms are available:

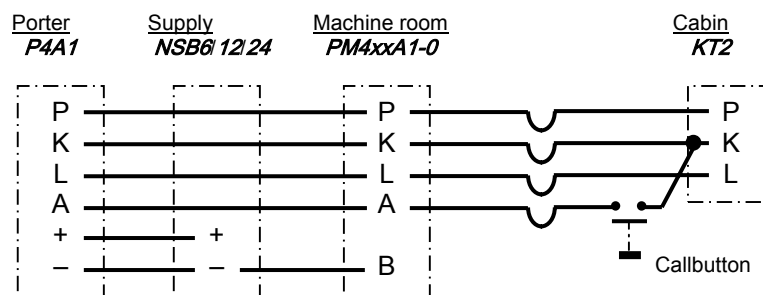
	<u>1 cabin</u>	<u>2 cabins</u>
Operation voltage 6Vdc:	<b>PM406A1-0</b>	<b>PM406A1-2</b>
Operation voltage 12Vdc:	<b>PM412A1-0</b>	<b>PM412A1-2</b>
Operation voltage 24Vdc:	<b>PM424A1-0</b>	<b>PM424A1-2</b>

These units contain a buzzer which sounds during operation of emergency call button only. With versions for single lifts a communication is held after lifting handset; for two cabins the calling one is to obtain by interrogation.

*Example of order-no.:*



Principle of wiring:



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2.2 Emergency intercom system BFA 6

This system is available for up to six cabins. Porter stations could be manufactured for mounting onto wall or posting onto table. They consist of a call storage with optical indication and standard version is built-in into housing of dark brown plastics (approx. RAL8017). On request a housing of light grey plastics (approx. RAL7035) is available.

Assemblation with buttons to switch-on communication with cabin is done according the lift-installation. Besides each button a LED is integrated to indicate calling cabin by blinking light until the handset is lifted. Built-in buzzer sound while emergency call or as permanent signal after call.

Communication is activated at porter by lifting the handset and short pressing the relevant button to cabin. In case of another emergency call during communication to one cabin the call is indicated optical only.

BFA6-system offers several supplementaries:

Call-erasure (supplement z2) This is necessary for several porters which work in parallel to same cabins and called together. Alternating the porters could be operated with:

Service selector (supplement z4) If simultaneous alarming of all porters is not desired this supplement causes that the emergency calls are directed to one porter only. Here the service button has to be pressed. The service is maintained until the service button in another station is pressed. A switching of service to another porter unit is not possible for reasons of security.

Conference call (supplement z3) enables call and communication facility between porter(s) and machine room units via separate lines. To these conference lines other stations like controller case or else could be wired by using a handset, plugged into telephone sockets.

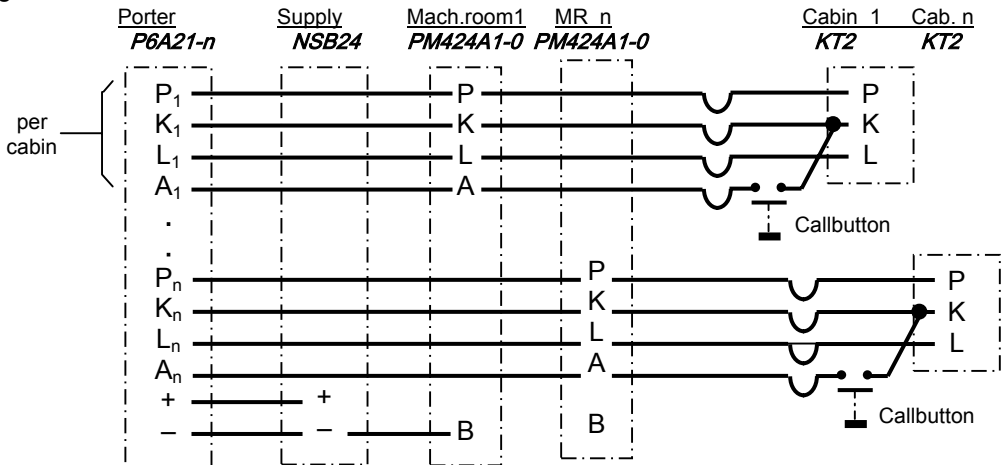
Eavesdrop prevention (supplement z8) prevents the porter of listen into cabin without knowledge of passengers. A two-way communication is possible only after a previous alarm. The porter can speak always into cabin, for example to instruct passenger to press the alarm button.

Permanent alarm (supplement z10) causes permanent acoustical signal from first operation of alarm button until the handset at porters unit is lifted.

Example of order-no.: **P 6 A21- 4 z3**

Supplement **z3**, conference call facility  
Amount of call buttons (cabins; here: **4**)  
for mounting onto wall, type **21**  
Porter unit of system **BFA6**

Principle of wiring:



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## 2.3 Emergency intercom system BFA16

System **BFA16** provides a central relay-control for storing calls and switching-on communication lines. This causes the electrical efforts of porter units minimized to communication circuit and one illuminated button per intercom, for porter units could be adapted to nearly any request of design.

Available standards of porter stations:

- |  |  |
|--|--|
| * Wall-mounted in dark-brown plastic housing<br>with handset, maximal 6 call buttons   | <u>Order-No.</u><br><b>P16A21-1 to 5</b>       |
| * Unit for mounting into table or wall with anodized<br>aluminium front-plate and moulded telephone,<br>type U37, extendable up to max. 36 call buttons<br>type U47, extendable up to max. 72 call buttons | <b>P16U37-1 to 36</b><br><b>P16U47-1 to 72</b> |
| * Unit for posting onto desk, as described above, with additional housing<br>of plastics; for up to 36 call buttons  | <b>P16P50-1 to 36</b>                          |

Moulded phones are available in darkbrown (...**BR**), light grey (...**GR**) or white (...**WS**).  
Please add colour to order numbers.

For storing the calls a relay station is necessary which is built-in into a housing of plastics:

- |                              |                        |
|------------------------------|------------------------|
| type A2, up to 5 intercom    | <b>Z16A2-1 to 5</b>    |
| type A124, up to 10 intercom | <b>Z16A124-1 to 10</b> |

For larger assemblies several stations of type **A124** are to combine.

Supplementaries of **BFA16**-system:

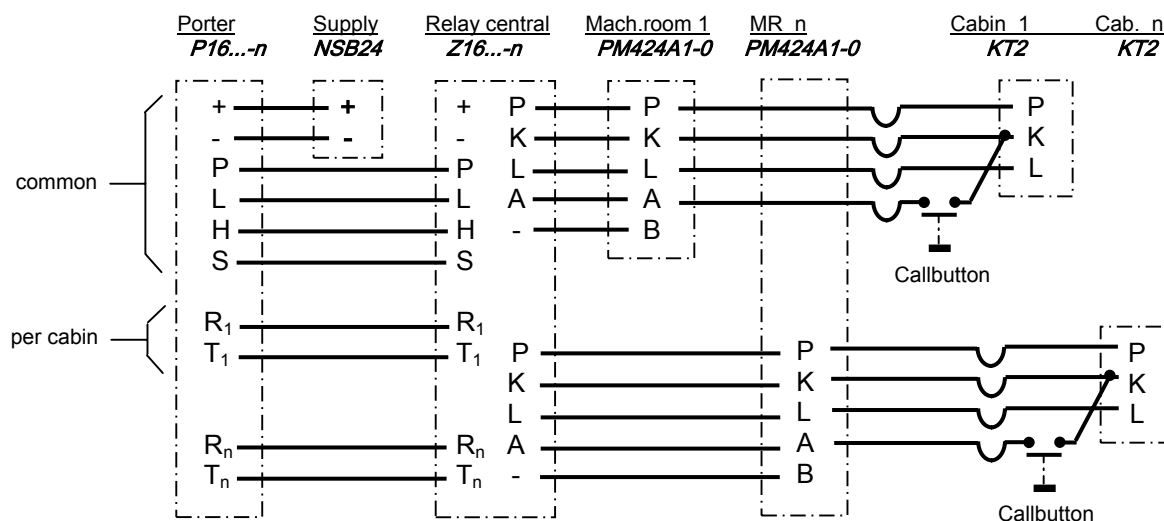
Conference calling (**z3**), service selector (**z4**), eavesdrop prevention (**z8**) and permanent alarm (**z10**) are same as described in BFA6, but **z8** and **z10** are integrated in relay station.

Further supplements:

Call transfer circuit (supplement **z7**) This transfers an emergency call to other wired porter units after an adjustable time between 2 and 20 minutes if there is no reaction of porter on duty after an alarm. This circuit could be used as timer also to switch external signals as horns or else.

Relay output (supplement **z5**) Per intercom a relay contact in relay station could be provided as alarm-output for switching external installations like report in supervision-computer or else. It could be a NC- or NO-contact with both sides potential-free or with common side for all alarms.

Switching to *TransAlarm* (supplement **z11**) This supplement is for porter intercom and relay station. It serves to transfer the alarm to *TransAlarm*-station if porter doesn't react on alarm after an adjustable time. Additionally the transfer could be switched directly by button at porters station (switching between day and night).



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### 3 Machine room units and cabin intercoms BFA4, 6 and 16

Machine room intercoms are available in following types:

	in BFA4	in BFA6	in BFA16	Voltage
for one lift; without conf. calling	<i>PM406A1-0</i> <i>PM412A1-0</i> <i>PM424A1-0</i>	---	---	6Vdc 12Vdc 24Vdc
for two lifts (duplex group); without conf. calling	<i>PM406A1-2</i> <i>PM412A1-2</i> <i>PM424A1-2</i>	---	---	6Vdc 12Vdc 24Vdc
for one lift; incl. conf.calling for 1 ... 6 lifts;	---	<i>M6A1</i>	<i>M6A1</i>	24Vdc
with conf.calling (supplement) for 1 ... 6 lifts;	---	<i>M6A21-1...6</i>	<i>M6A21-1...6</i>	24Vdc
incl. calling of porter	---	---	<i>M16A21-1...6</i>	24Vdc

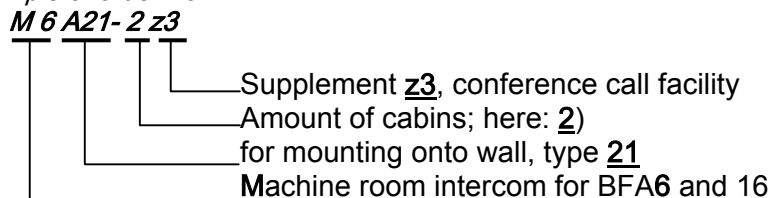
Supplementaries of machine room group-intercom:

- z1** for optical indication of call, in parallel to buzzer; without call-storage  
for types *M6A21-...* and *M16A21-...*
- z3** with call- communication-facility to porter resp. other machine room intercom  
for types *M6A21-...*

For intercoms of type *M16A21-...* porter intercom and relay station are to be assembled for amount of cabins and amount of machine room intercoms.

If the porter is switched onto existing communication machine room—cabin, a conference communication between these stations is possible.

Example of order-no.:



#### Cabin intercoms

Cabin intercoms do not depend on operation voltage and used in all **BFA**-systems. They are mounted into a housing of plastics, with amplifier, regulator for loudness and electronic microphone.

- \* for mounting behind panel **KT2**
- \* with anodized front-plate for mounting into wall of cabin later **KT12F7**
- \* as above, additionally with alarm button (aluminium) **KT12F14-T**

#### Special version of cabin intercoms

Per cabin one intercom **KT2** or else is to use. For two-door cabins or because of cabin measures the special version **KT2-R** resp. **KT12F7-R** for operation in series is available. Here one normal type (**KT2**) and one special type (**KT2-R**) is to use per cabin.

These versions are not possible to use in BFA4-system with 6V operation voltage.

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## 4 Hints and accessories

### Mounting of cabin intercoms

Large enough openings for the sound are necessary directly across loudspeaker and microphone. The intercoms have to be placed directly onto panel. Any air gap is to avoid for disable acoustic feedback. Eventually microphone and loudspeaker are to block against each other by using silencing gum or else.

### Intercoms according „EN81“

To meet demands of actual **EN81** an emergency call and communication facility from above and below cabin to a supervision-station should be provided. This facility will serve to communication between roof of cabin and machine room in case of maintenance or else also. If an alarm is set the normal link to cabin is switched to intercom on roof or in shaft by timer module *ELB25*. After ten minutes an automatic reset to cabin is made. The LED within buttons is lightened permanently resp. is blinking while activated timer (after set of alarm).

### Intercom for cabin roof *KT2A88U*

This version is mounted into a steel-housing together with timer *ELB25* and an alarm button. It is useable in emergency intercoms with 6, 12 or 24Vdc. On back of housing flat magnets are fixed to mount the unit to cabin. For wiring to inspection-/cable-box on roof of cabin a cable with 1,5m length is distributed from intercom.

### Intercom for bottom of shaft *KT2A88T+ELB25*

This unit consists of two parts: intercom and timer module. The intercom in steel-housing with alarm button is available for installation in bottom of shaft and provides a cable with 50cm length for wiring to shaft-installation. The timer is mounted into a PCB-carrier for posting into controller.

If the shaft-intercom should be installed under the cabin a second unit *KT25A88T* is to use.

### Firemens intercom

To meet demands of firemens service an additional intercom with direct communication to cabin could be installed in entrance area of buildings. Existing communications between cabin and machine room resp. porter will not be interrupt from fire service intercom. This set could start communication to cabin without previous alarm. To avoid disturbances by noises this unit operates in one way communication (intercommunication). The intercom is useable in BFA4, 6 und 16 and is available in several types:

- \* to mount behind panel; using external operation elements: *F4U*
- \* as above, but including key-switch for set-up and speak-button,  
mounted to engraved front-plate of aluminium: *F4U-F14*
- \* as above, including steel-housing: *F4U83-F14*

### Intercom sockets

These telephone sockets facilitate the machine room to communicate with car roof or bottom of shaft while maintenance or repairs (version **R**, 24V only). Also a communication between cabin and control-cabinet or else (version **M**) is possible. The sockets are placed into a onto-wall housing for humid conditions. They include a call button.

Communication to cabin	<i>S4A63M</i>
with conference facility	<i>S4A63R</i>
Handset with plug	<i>S4H</i>

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#### Door intercoms

For combination of emergency intercom system with other stations, not belonging to lift installation like operation rooms or entrances the door intercom with steel housing *U83*, anodized front-plate and call button is available. This unit, built as hand-free station, performs a two-way-communication and is switched to porter resp. relay-station like further cabins.

***KT2U83F2***

#### Additional acoustical signals

These devices are appropriate where it is not certain that supervisory personal will always be in vicinity of emergency intercom. Machine room and porter units of systems BFA6 and BFA16 supply terminals for wiring these units (max. load 1A).

*Example:* Emergency horn with approx. 92 dB(A) for **6, 12 or 24Vdc**    ***NH.. F***

#### Switching module for activated communication link

A module could be add to 24volts-intercoms for signalization in cabin an activated communication. This module is fixed into a housing of plastics (54x45x23mm) and offers a potential-free relay-contact (NO) for max. 5A. The contact enables switching a light like „please speak“ while communication into cabin is set.

***PEK1103B***

#### Amplifier for cabin intercom

The amplifier module was developed for the employment into large lift cabins. It serves the volume increase of the cabin intercom KT2 and is integrated in a narrow housing for mounting on carrier rails. (12 or 24 Vdc)

***ELB3930***

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## 5 Power supply and installation

### Feeding

To keep voltage-leaks as small as possible feedings should be near to largest consument of current. In systems BFA6 and BFA16 this is the porter resp. the relay station. In *BFA16* it is preferable to install porter and relay station with a distance not more than approx. 20m of cable. If this is not possible it could be necessary to install a supply at each both units.

Please note that the operation voltage should not be lower than 15% of nominal voltage.

### Range

Emergency intercom systems *BFA4*, *BFA6* and *BFA16* are built-up in that way that a range of approx. 1000 m is possible. For the quality of transmission depends on cables and on way of installation a shielded cable would be preferred. Also note correct isolation of lines. Communication lines should be used as a pair. Also these cables are not to install near disturbing cables with high voltage.

Transmission-quality could be affected by power supplies with high ripple. Please note that ripple doesn't increase more than approx. 2mV. For ohmic resistance of line-pairs for communication is not so important, ripple of signal-lines must not be larger than 50 ohms (both ways) and for supply lines not more than 10 ohms.

diameter of line	Range for line-resistance	
	10 ohms	50 ohms
0,4 mm ø	70 m	350 m
0,6 mm ø	160 m	800 m
0,8 mm ø	280 m	1400 m
1,0 mm ø	440 m	2200 m

### Installation

For wirings within buildings installation cable IYY is proposed. For larger ranges or if there are disturbing influences in the surroundings we propose installation cable with static shield, IY(St)Y.

### Feeding by external supply

Feeding by external, decentral supply is possible for following conditions:

- Minus- and plus-wires are potential-free against earth
- Remaining ripple from main power rectifier (50/100Hz) is lower than 10mV
- High frequency disturbance voltages are lower than 2mV
- Feeding of plus-voltage 24V is to do via a diode to disenable influences of supplies.

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6 Images and measures

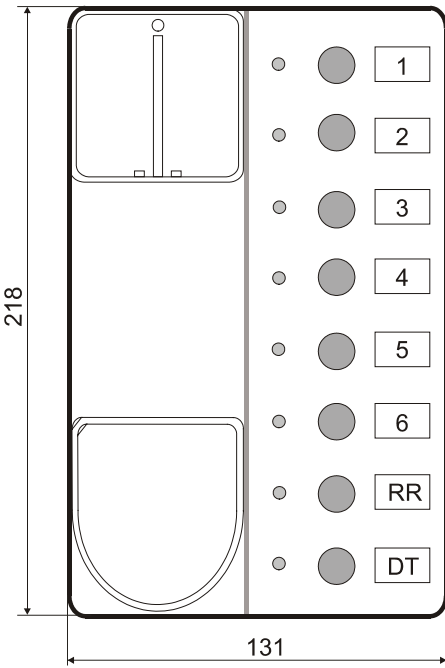
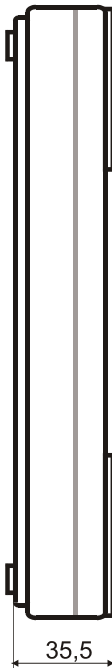
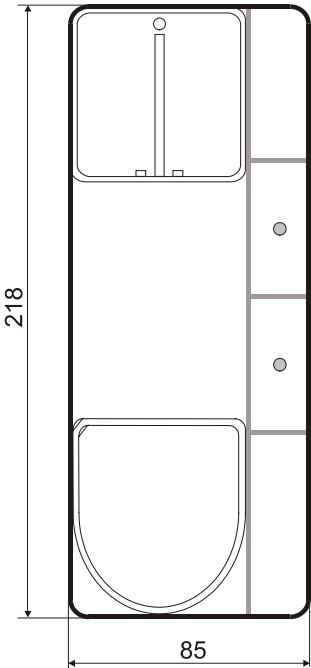
Type **A100**:

used for: *PM4xxA1-n*  
*P4A1*

Colours: dark brown (approx. RAL8017)  
light grey (approx. RAL7035); ...*GR*  
white (approx. RAL9010)

Type **A210**:

used for: *P6A21-n, P6P21-n,*  
*P16A21-n, P16P21-n,*  
*M6A21-n, M16A21-n*  
dark brown (approx. RAL8017)  
light grey (approx. RAL7035); ...*GR*  
(optional; extra price)



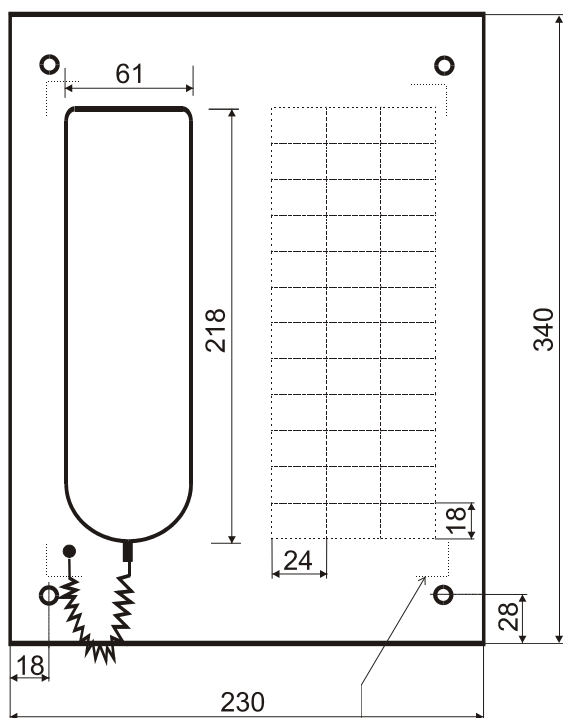
*Porter station P4A1BR*



*Porter station for 4 cabins P6A21-4*

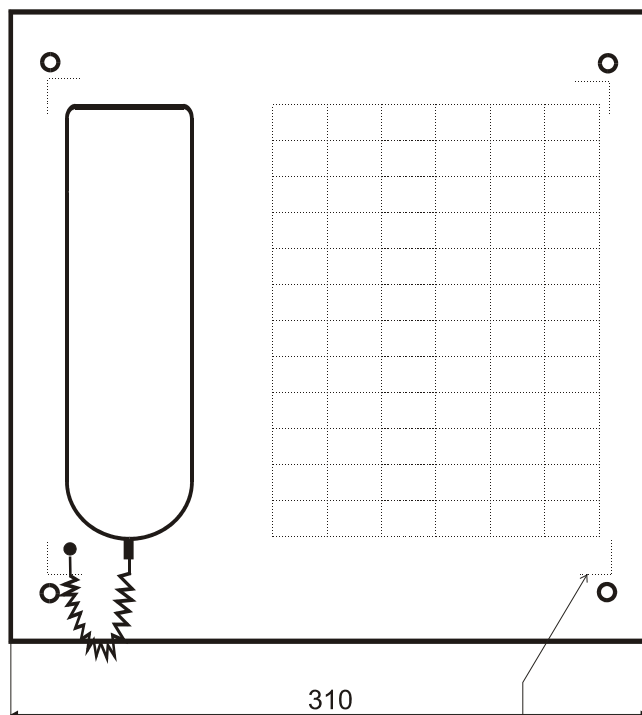
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Type U37:  
used for: *P16U/US37-...*



requested hole in table or wall  
approx. 195mm width/260mm high  
(without housing)

Type U47:  
used for: *P16U/US47-...*



requested hole in table or wall  
approx. 280mm width/260mm high  
(without housing)

Porter stations of system BFA16 with moulded intercom \*) and an illuminated button per cabin, mounted to an anodized aluminium front plate; as panel for surface installation (vertical or horizontal).

\*) Moulded intercom is available in dark brown, light grey or white.

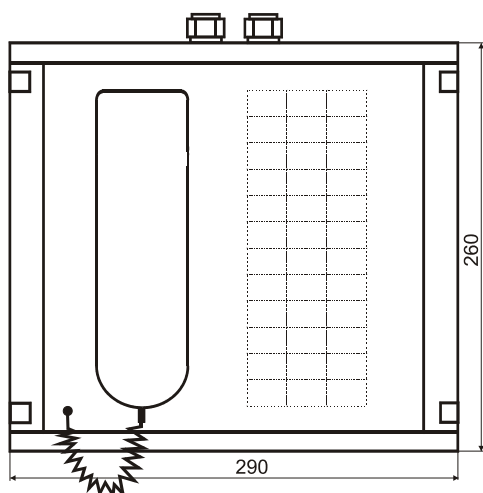


*Example for standard type:*

*Porter station of type U37, here assembled for eight elevators with extension broadcast; with intercom in dark brown: P16U37-8z3*

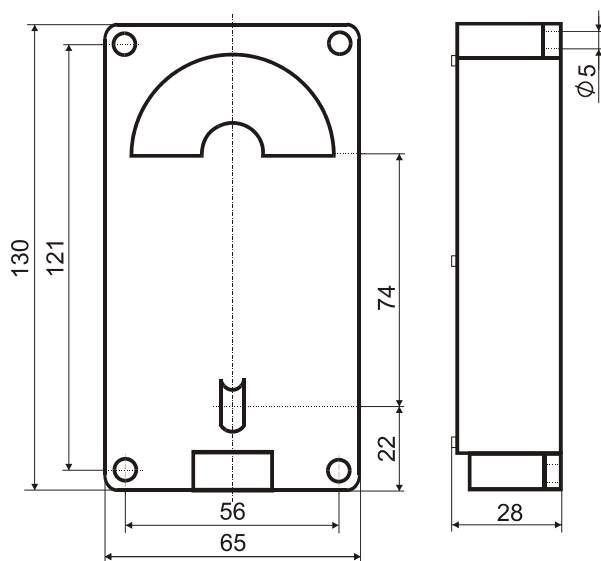
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Type **P50**:  
used for: *P16P50-...*



*Porter station for 15 elevators,  
with moulded intercom in light grey P16P50-15 GR*

Type **T2**:  
used for: *KT2.., KT12.., WSK-T2*



*Cabin intercom KT2*

#### Surface mounted intercom

Here an intercom of type T12 (as before, but wiring terminals on back) is used and mounted behind a front plate. This plate is in standard of anodized aluminium.

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*F4U-F14*

Type of intercom	Measures (mm)		
	L	x	H
Cabin intercom to add into wall of cabin; without button	<i>KT12F7</i>	159	x 110
as above; with call button	<i>KT12F14-T</i>	250	x 110
Firemens intercom	<i>F4U-F14</i>	250	x 110

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## 7 Power supplies

### 7.1 Auxiliary power supplies NSB

These supplies offer a reserve of current in case of main power failure and serve to feed the auxiliary illumination of cabin as well as feeding the emergency intercom. They consist of a charger with accumulator and are available for voltages of 6, 12 and 24 volts.

#### Design

Power supplies *NSB*... consist of a maintenance-free batterie with permanent charger and relay for supervision of main power. They are available within a closed housing, on base plate and for mounting onto carrier rails. The batteries are fixed solid and easy to exchange.

#### Operation

The charger keeps accumulator at a maximum charge. In case of main power failure the auxiliary lighting in cabin is switched on via contact R. Also the supply of terminals AL and EL is switched from main supply to battery. This state is maintained apply of deep-discharge-protection at approx. 20% reduced batterie power and opening of contact R. At this state the residual accu capacity is available at terminals for emergency call and intercom.

For longer shut-downs the battery should be disconnected to protect against over-discharge or should be isolated by an external battery switch. For interruptions up to three days the remote-switch is useable.

#### Technical datas

Re-charging time:	After discharging until apply of deep-discharge-protection: NSB 6S, 12 and 24 approx. 6 hours NSB 6R approx. 20 hours
Temperature range:	-10 to +45°C. With sinking temperature capacity of accu will be reduced.
High current load:	24V; 4 A for lowering valve, approx. 1 minute at terminals NL
Life of battery battery:	approx. 4 years. Without charging accumulators mustn't be stored longer than 4 month.

#### Survey on units

Order-no.	Voltage	Capacity	Construction
<i>NSB6A20R</i>	6 V	2,0 Ah	plastic housing
<i>NSB6U20R</i>	6 V	2,0 Ah	base plate
<i>NSB6VT20</i>	6 V	2,0 Ah	mounting angle for carrier bar
<i>NSB6SA30</i>	6 V	3,0 Ah	sheet metal housing
<i>NSB6SU30</i>	6 V	3,0 Ah	base plate
<i>NSB6VT30</i>	6 V	3,0 Ah	mounting angle for carrier bar
<i>NSB12A18</i>	12 V	1,8 Ah	sheet metal housing
<i>NSB12A30</i>	12 V	3,0 Ah	sheet metal housing
<i>NSB12U18</i>	12 V	1,8 Ah	base plate
<i>NSB12U30</i>	12 V	3,0 Ah	base plate
<i>NSB12VT18</i>	12 V	1,8 Ah	mounting angle for carrier bar
<i>NSB24A18</i>	24 V	1,8 Ah	sheet metal housing
<i>NSB24U18</i>	24 V	1,8 Ah	base plate
<i>NSB24A57</i>	24 V	5,7 Ah	plastics housing
<i>NSB24U57</i>	24 V	5,7 Ah	base plate

*(Depending on built-in accu-manufacturer above capacities will be different)*

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### 7.2 Power supply SVB24

The 24Vdc power supply *SVB24* consists of a charger incl. transformer and two maintenance-free 12V-accus. This charger is designed for permanent supply of installations which have a load of up to 0,5Amps. This could be supervision panels which include other indicators for signalling operational states. At output terminals 24Vdc is permanently given; for main power supply via charger and for main power failure via accu. Supply of auxiliary light in cabin is not provided.

*SVB24* offers a self-supervision which is activated if voltage at output is lower than nominal voltage of accu (26V). Disturbance indication is done via included LED and could be used externally via a potential-free relay contact. By an external switch the charge of accu could be interrupt tests.

Charging tension depends on main supply voltage and surrounding temperature. It is maximal 0,7 ... 1,3Amps. (220V, 20°C).

Following types are available:

Order-no.	Capacity	Construction
<i>SVB24A18</i>	1,8 Ah	sheet metal housing
<i>SVB24U18</i>	1,8 Ah	base plate
<i>SVB24A57</i>	5,7 Ah	sheet metal housing
<i>SVB24U57</i>	5,7 Ah	base plate

*(Depending on built-in accu-manufacturer above capacities will be different)*

### 7.3 Power supply GAL24

Power supply *GAL24* consists of a transformer, rectifier and an electronic regulator. It charges the accus while main supply is given. *GAL24* supplies at output terminals permanently 24Vdc up to a tension of 6Amps. The power of a wired consumptor is supplied from charger up to nominal tension. In case of power-peaks or main supply failure the accumulator serves. During accumulator-operation a voltage supervision serves against deep-discharge.

This unit is for mounting into controller or else and available in following types::

Order-no.	Construction
<i>GAL24</i>	Charger as described above
<i>GAL24U</i>	Charger, mounted onto base plate (protection IP00)
<i>GAL24U57</i>	complete charger on base plate incl. two accus 5,7Ah each

Charger has the meassures LxWxH= 160x126x165mm with a weight of approx. 6 kgs. Meassures of base plate are LxW= 320x200mm; with accus there is a height of approx. 200mm.

Same as *SVB24*... a supply of auxiliary light in cabin is not provided

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