ETL UK

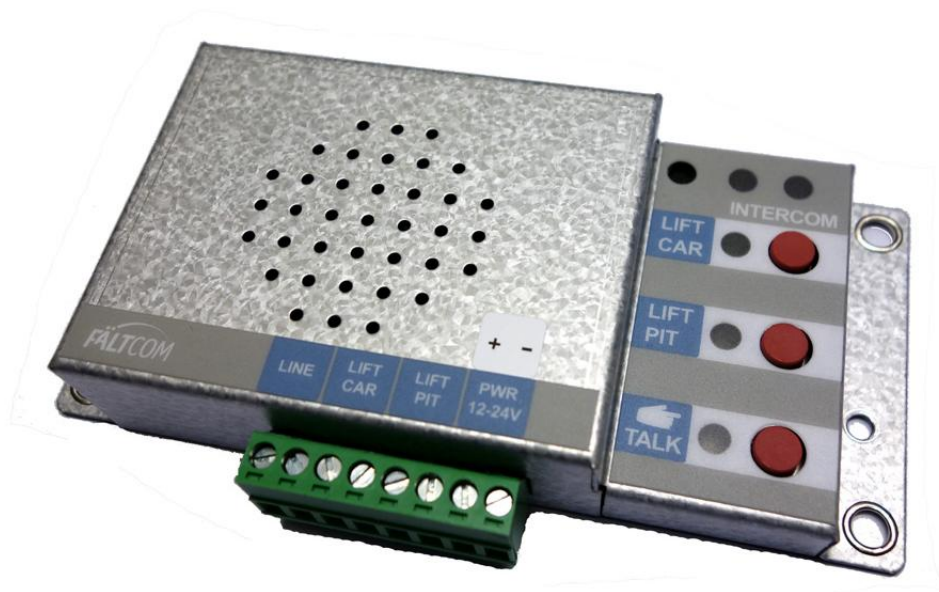**FÄLTCOM**
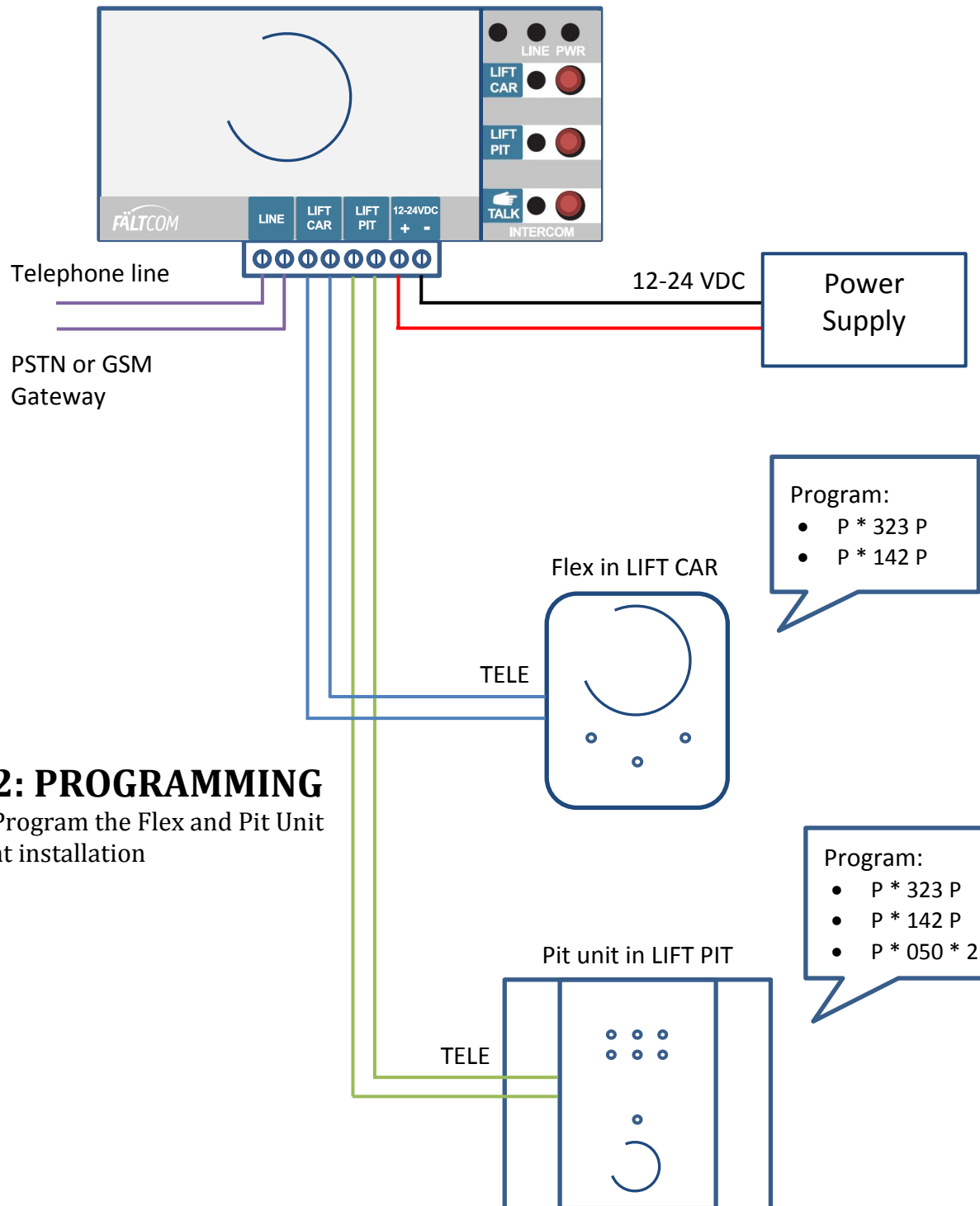*Secure communication everywhere*

Intercom
102153-01
User Manual v1.1

Content of delivery

- Intercom unit, art no. 102153-01
- DIN clips and screws
- Intercom Manual (this document), art no. 162153-01M

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1: CONNECTIONS

Connect the Intercom to the Flex, Pit Unit, Line and Power

Telephone line

PSTN or GSM
Gateway

12-24 VDC

Power Supply

Program:
- P * 323 P
- P * 142 P

Flex in LIFT CAR

TELE

2: PROGRAMMING

Program the Flex and Pit Unit
at installation

Program:
- P * 323 P
- P * 142 P
- P * 050 * 2 P

Pit unit in LIFT PIT

TELE

3: Calling the LIFT CAR or LIFT PIT

Use the LIFT CAR and LIFT PIT buttons to call, then use the TALK button to speak

First:
Push to call
LIFT CAR...
(LED → 🟢)

...or
Push to call
LIFT PIT...
(LED → 🟢)

...then:
Push TALK to
speak to CAR/PIT
(LED → 🟢)

Telephone line

PSTN or GSM
Gateway

12-24 VDC

Flex in LIFT CAR

TELE

Pit unit in LIFT PIT

TELE

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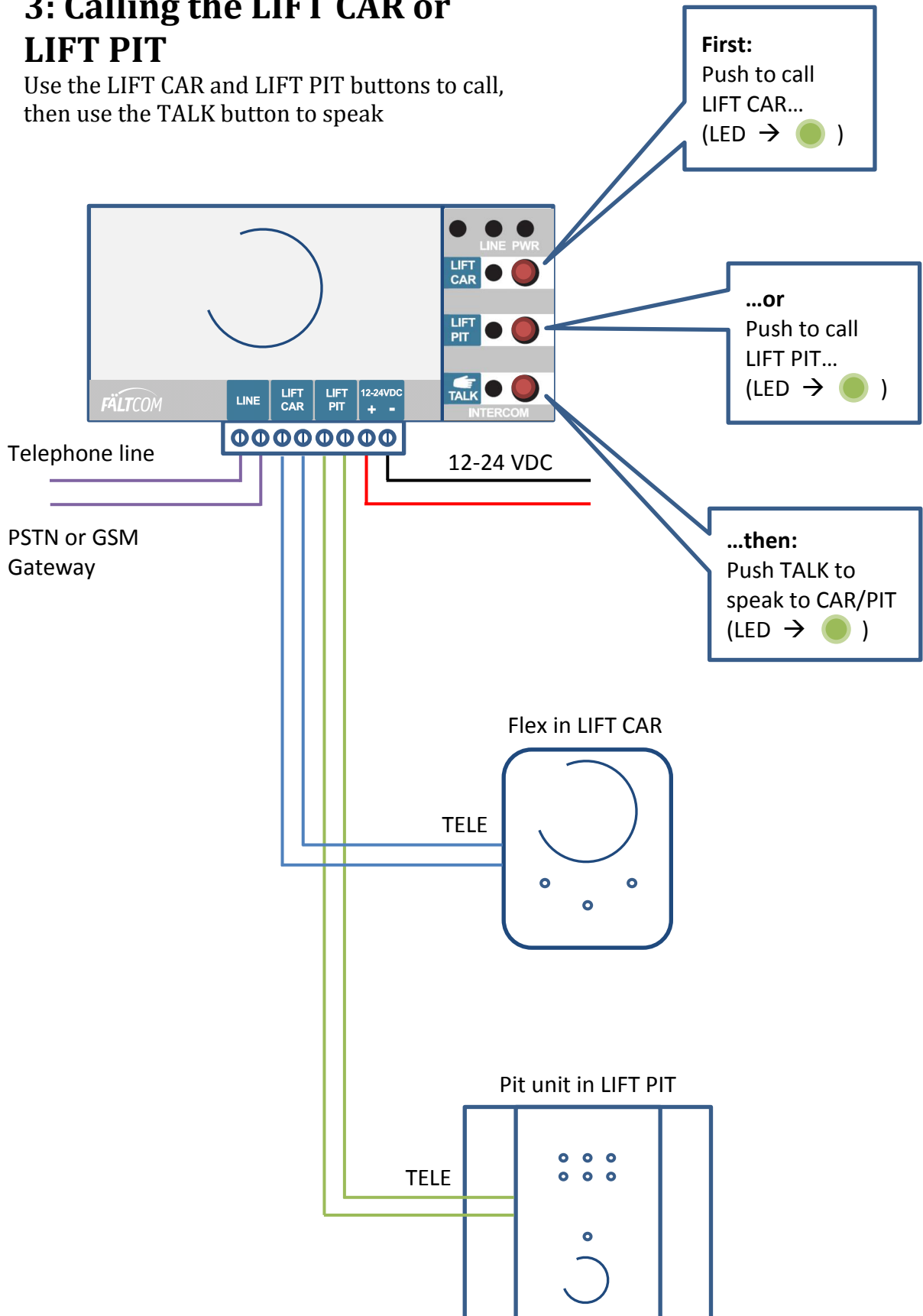
1. CONNECTIONS

Find a suitable place where to mount the Intercom following these guide lines:

- Mount the Intercom on the wall or use the DIN clip and mount the Intercom on a DIN rail.
- Make sure the buttons are reachable and the LEDs are visible.
- Make sure there is a power source, 12-24 VDC reachable.
- Connect the telephone line to the "LINE" input, see figure below.
- Connect the FältCom ECII® Flex to the "LIFT CAR" output, see figure below.
- If there is a Pit Unit in the installation; connect the Pit Unit to the "LIFT PIT" output, see figure below.
- Connect the power supply to the "PWR 12-24VDC" input, see figure below.
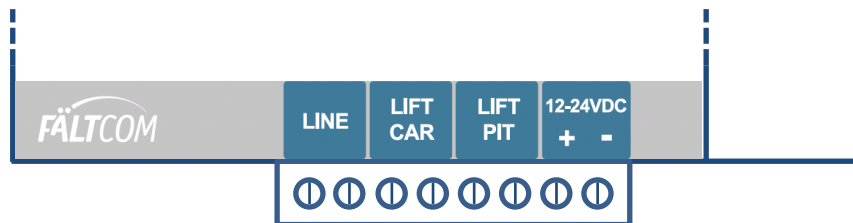
Connector	Description
LINE	Incoming phone line from PSTN, PBX or Gateway
LIFT CAR	Outgoing phone line to autodialer in the lift car
LIFT PIT	Outgoing phone line to autodialer in the lift pit
12-24 VDC	Power input to the Intercom, use a 12 to 24 VDC battery back-up power source

2. PROGRAMMING

The Flex and Pit Unit needs to be programmed in order to function properly with the Intercom.

In the Flex, program:

- P * 323 P and
- P * 142 P

In the Pit Unit, program:

- P * 323 P
- P * 142 P and
- P * 050 * 2 P

3. Calling the LIFT CAR or LIFT PIT

3.1 Call to the LIFT CAR

- Push the LIFT CAR button >1 sec.
- The corresponding led will flash and ring tone is heard in the speaker.
- When the Flex in the LIFT CAR answers:
  - The speaker on the Intercom is active; you can hear the person in the LIFT CAR.
  - The led is fixed lit.
- To talk to the LIFT CAR; push the TALK button:
  - Microphone is activated and speaker deactivated.
  - The TALK led is lit to show that the microphone is active.
  - When the button is released the function goes back to normal state.
- To end the call; push the LIFT CAR button again.
- If no action is taken the timeout is 3 minutes.
  - After 2.5 minutes of no action the Intercom shall flash the led and every 5 seconds there is a warning signal in the speaker.
  - Push the LIFT CAR button again to reset the timer to 3 minutes.
  - Note: if the user wants to end the call during the timeout warning sequence the user must push two times on the LIFT CAR button.

3.2 Call to the LIFT PIT

- Push the LIFT PIT button >1 sec.
- The corresponding led will flash and ring tone is heard in the speaker.
- When the Flex in the LIFT PIT answers:
  - The speaker on the Intercom is active; you can hear the person in the LIFT PIT.
  - The led is fixed lit.
- To talk to the LIFT PIT; push the TALK button:
  - Microphone is activated and speaker deactivated.
  - The TALK led is lit to show that the microphone is active.
  - When the button is released the function goes back to normal state.
- To end the call; push the LIFT PIT button again.
- If no action is taken the timeout is 3 minutes.
  - After 2.5 minutes of no action the Intercom shall flash the led and every 5 seconds there is a warning signal in the speaker.
  - Push the LIFT PIT button again to reset the timer to 3 minutes.
  - Note: if the user wants to end the call during the timeout warning sequence the user must push two times on the LIFT PIT button.

3.3 External incoming calls

External incoming calls are directed to both the LIFT CAR and LIFT PIT extension. The unit that answers the call first is connected and the other extension is directed to the internal line.

3.4 Operational exceptions

- If there is an ongoing external call from the LIFT CAR or LIFT PIT and the call button for the busy extension is activated; the Intercom will generate busy tone to the Intercom speaker and then go back to idle mode.
- If there is an ongoing external call from the LIFT CAR or LIFT PIT and the call button for the other extension is activated; the Intercom will connect an intercom call to that extension.
- If there is an ongoing external call from one of the extensions and the other extension also goes off-hook the Intercom will connect an intercom call to that extension.
- If the is an ongoing intercom call and the other extension lifts the hook to call; the autodialer is able to call an external receiver.

4. Buttons and indications
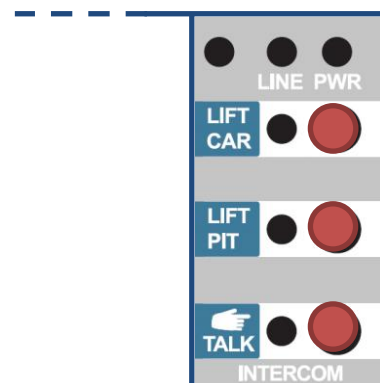
Button	Status	Description
	No active call	Push to call the lift car
LIFT CAR	Call is active	Push again to close the call
	LED flashing	Push again to prolong the call
	No active call	Push to call the lift pit
LIFT PIT	Call is active	Push again to close the call
	LED flashing	Push again to prolong the call
	Call is active	Push to talk. Release to listen.
TALK	No active call	Button has no function

LED	Status	Indicates
PWR	ON	Normal status
	OFF	No Power
LINE	ON	Phone devices are off-hook
	OFF	Phone devices are on-hook
LIFT CAR	ON	Phone device in lift car is off-hook
	Flashing	Ringing signal on line or time-out warning
	OFF	Phone device in lift car is on-hook
LIFT PIT	ON	Phone device in lift pit is off-hook
	Flashing	Ringing signal on line or time-out warning
	OFF	Phone device in lift pit is on-hook
TALK	ON	Microphone in Intercom is active
	OFF	Microphone in Intercom is off

5. Technical Data

Parameter:	Data:
Size (L x B x H):	140 x 25 x 75 mm
Weight:	190 g
Protection class:	IP 20
External power:	12-24 VDC
Power consumption	At rest: 12V < 7 mA, 24V < 4 mA
	Ongoing call: 12V < 100 mA, 24V < 52 mA
Line voltage on hook:	42 V DC
Operating temperature:	-10 °C to +40 °C
Air humidity:	30 % to 90 % RH

Tone indications

Dial tone:	425 Hz -10 dBm. Continuous
Ringing signal:	25 Hz 40 VRms into 3REN. 1000 ms ON / 4000 ms OFF
Ring back tone:	425Hz, 1000 ms ON / 4000 ms OFF
Busy tone:	425Hz, 500 ms ON / 500 ms OFF

Connections

LINE:	5.0 mm
LIFT CAR:	5.0 mm
LIFT PIT:	5.0 mm
DC power supply input	5.0 mm

6. Contact Information
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