



DOOR ENTRY HANDSETS
LY-8, LY-8-1
User manual

EN

1. Installation and operating conditions

- Before installing the door entry handset, read this manual and the installation manual for the doorphone or video doorphone system in which the door entry handset will be used.
- The door entry handset should be installed in a place that is easily accessible to household members, in such a way that it does not pose a hazard to them.
- it is forbidden to connect the door entry handset to any installation other than an intercom system, made in accordance with the manufacturer's recommendations,
- the door entry handset should not be exposed to high temperatures and moisture,
- the door entry handset should be protected from being splashed with any liquids,
- Do not cover the openings in the door entry handset housing, as this may cause the device to malfunction.
- Do not insert any metal objects into the openings in the door entry handset housing, as this may damage the device.
- Only qualified persons are permitted to repair the device themselves.
- repair of the device by unauthorised persons may void the warranty,
- if the door entry handset stops working, check that the call signal switch is not in the OFF position before calling for service,
- do not use organic solvents to clean the door entry handset housing,
- it is best to use a cloth moistened with warm water for this purpose,
- do not hold the door entry handset to your ear when the door entry handset fork remains in the pressed position, as this may cause a loud call signal to appear in the handset, which may damage your hearing,
- do not connect the bell terminals (B, V-) to any live electrical installation, especially to a 230 V AC network (applies only to the LY-8-1 model),
- do not set up two LY-8 door entry handsets with the same number, as this may cause the doorphone to malfunction

Attention!

We recommend that you read the user manual for the doorphone system in which this door entry handset is used. It describes in detail all the functions of the doorphone (e.g. use of the lock code and electronic keys) and the functions of the door entry handset, which may vary depending on the system and its configuration.

2. Purpose and features of the door entry handset

The door entry handset is designed for Laskomex digital doorphone systems. If used in other types of door entry handsets, its operation may differ from that described in the manual. The door entry handset is equipped with an additional loudspeaker that provides a loud call signal.

The device has a button for controlling the electric strike (STRIKE), gate or barrier drive (GATE) and a button marked ADDITIONAL, which can be used for any purpose (see Fig. 7). By default, this button is inactive.

During a call and conversation, the DOORBELL button is illuminated by an LED.

In addition to the functions described above, the LY-8-1 door entry handset can also be used as a doorbell. It has a built-in electronic bell/gong module, which is activated by a standard bell button. You can choose one of three signals (DING-DING, DING-DONG, Westminster). Door entry handsets with a bell require an additional power supply (see 'Door entry handset installation').

The lower left corner of the door entry handset is rounded, and when replacing an old door entry handset with a new one, dirt may be visible in this area. This area can be covered using the plastic cover included with the door entry handset (see Fig. 7).

3. Using the door entry handset

3.1 Making a call and conducting a conversation

After dialling the flat number on the numeric keypad on the door entry panel, a call signal will appear on the door entry handset. The conversation can be conducted after picking up the handset during the call or within a specified time after the call ends (30 seconds by default).

The conversation ends when the handset is replaced, the 'C' or 'X' key is pressed on the door entry panel, or after a specified time (120 seconds by default).

3.2 Controlling the electric strike

The electric strike can only be activated during a call by briefly pressing the STRIKE button. The electric strike will be unlocked for the time set by the installer (5 seconds by default). The length of time the button is pressed is irrelevant. The electric strike can only be activated again after its operation caused by the previous use of the STRIKE button has ended.

3.3 Gate drive control

The door entry handset has a GATE pushbutton, which is used to activate the entrance gate drive or other device. The button can operate in two modes: in the first mode, the

gate can only be controlled during a call, in the second mode, the gate can be activated at any time. The first mode is enabled by default.

3.4 Volume control and call switch

The door entry handset has a switch that allows you to turn off and change the volume of the call signal (see Fig. 1). To turn off the call signal completely, set the volume switch to the OFF position. Most Laskomex doorphone systems allow you to change the call volume and tone in the doorphone settings (e.g. the 'user menu' is available in CD-2502/2600/3100 doorphones). Detailed information on this subject can be found in the manuals for these doorphones.

If the door entry handset set to minimum volume is still too loud, it can be turned down by removing the 100R jumper from the JP2 jumper (see Fig. 7). In older door entry handset models, remove the jumper from the JP3 jumper.

3.5 Doorbell function (LY-8-1 model only)

The LY-8-1 door entry handset is equipped with an electronic doorbell/chime module to which a doorbell button located in front of the entrance to the

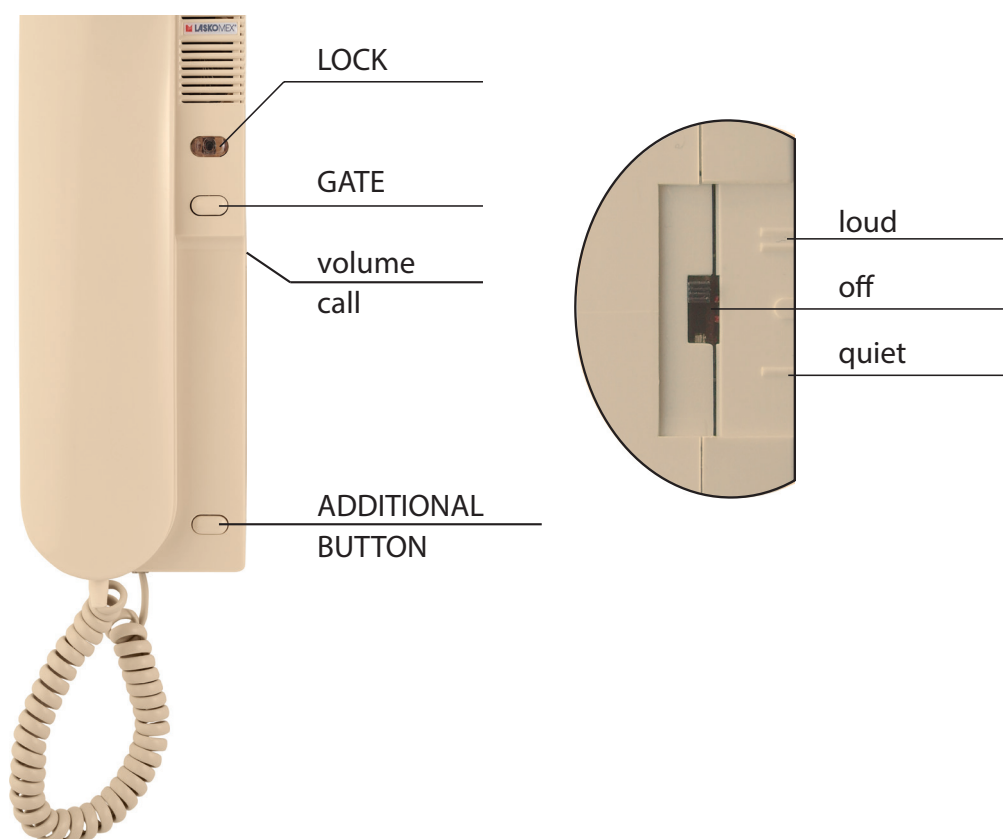


Fig. 1. LY-8 and LY-8-1 door entry handsets.

Pressing the button activates the bell. The bell operates independently of the position of the switch for setting or disabling the call and will operate even when the call is disabled.

4. Maintenance of the door entry handset

- if the door entry handset is dirty, clean it with a soft, damp cloth,
- avoid spilling water or other liquids inside the door entry handset, as this may damage the device,
- Do not use abrasive materials that could scratch the surface of the housing.
- Do not use petrol, solvents or strong detergents for cleaning, as they may damage or discolour the surface.

5. Door entry handset installation

- The door entry handset should be installed inside the building at a height that ensures comfortable use of the device for all residents.
- The door entry handset is mounted to the wall using two wall plugs and screws.
- No other method of installation is recommended.
- To attach the door entry handset to the wall, unscrew the two screws on the front of the door entry handset and remove the cover.
- Place the base of the door entry handset in the installation location and mark the locations for the wall plugs.
- If there are marks from the old door entry handset in the lower left corner, they can be covered with the cover included in the set.
- The cover should be attached to the base of the door entry handset with a screw (see Fig. 7).
- Optional: install a plate with an additional button (see Fig. 7).
- Pressing this button causes a short circuit between terminals A1 and A2.
- drill holes for wall plugs, place the door entry handset against the wall, feed the wires through the hole in the base and screw the door entry handset to the wall,
- connect the wires, paying particular attention to their correct polarity,
- program the number using jumpers on the JP1 connector (see point 6 of the manual),
- Optional: set the gate control button operating mode (see point 7 of the manual).
- Check the operation of the door entry handset.
- If the door entry handset does not work properly, check again that its number is set correctly and check the voltage at the L+ terminals. L- (5.5–6 V DC in Laskomex systems),

- if there is feedback during a call, you can reduce the microphone gain using the P1 potentiometer.

LY-8-1 door entry handset with bell function

- the door entry handset requires an additional power supply (12–15 V DC) and a bell button,
- the bell button must not be connected to the 230 V mains,
- it is permissible to use a central power supply for a group of door entry handsets, provided that the appropriate diameter of the power cables is maintained and a power supply with the appropriate current capacity is selected,
- the maximum current consumption of the door entry handset bell during ringing is 250 mA, and in the idle state it is approx. 10 mA,
- a 13.5 V / 1.2 A power supply can be used to power a group of 32 door entry handsets, assuming that no more than 4 bells will ring at the same time,
- the length of the power cables should not exceed 100 m with a cable diameter of 0.8 mm,
- connect the bell button to terminals B and V-, and then connect the door entry handset power cables according to the diagram in Fig. 5 or 6,
- optional: change the ring tone using the BELL connector on the bell module board (see Fig. 7).

6. Setting the door entry handset number

Set the flat number in the door entry handset using the JP1 programming connector (see Fig. 2). You can set a number from 1 to 244. If the flat number is higher, use one of the numbering modes available in the doorphone. For detailed information, refer to the manual for the doorphone to which the door entry handset is connected.

Do not set the same number on two or more LY-8 door entry handsets, as this may cause the doorphone to malfunction.

The JP1 connector consists of 8 pairs of pins with the numbers 1, 2, 4, 8, 16, 32, 64, 128 visible.

Each number in the range 1–254 can be represented as the sum of the above numbers. If the number is part of the sum, place a jumper on the corresponding pair of pins (see examples in Fig. 2).

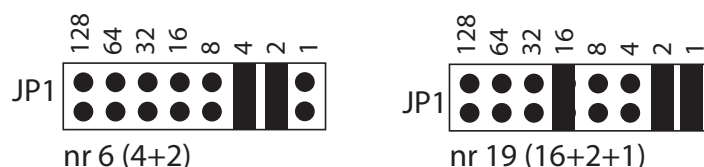


Fig. 2. Setting the door entry handset number.

7. GATE pushbutton operating mode

The GATE pushbutton (S3) can operate in two modes: always active or active only during a call. The mode is set by placing or removing the GATE jumper on the JP2 connector or using the J2 jumper in older versions of the door entry handset (see Fig. 7). Pressing the button supplies ground to the BR terminal. The use of the button may vary depending on the doorphone system to which the door entry handset is connected, so before connecting the door entry handset, please also refer to the instructions for that doorphone system.

Connection diagram

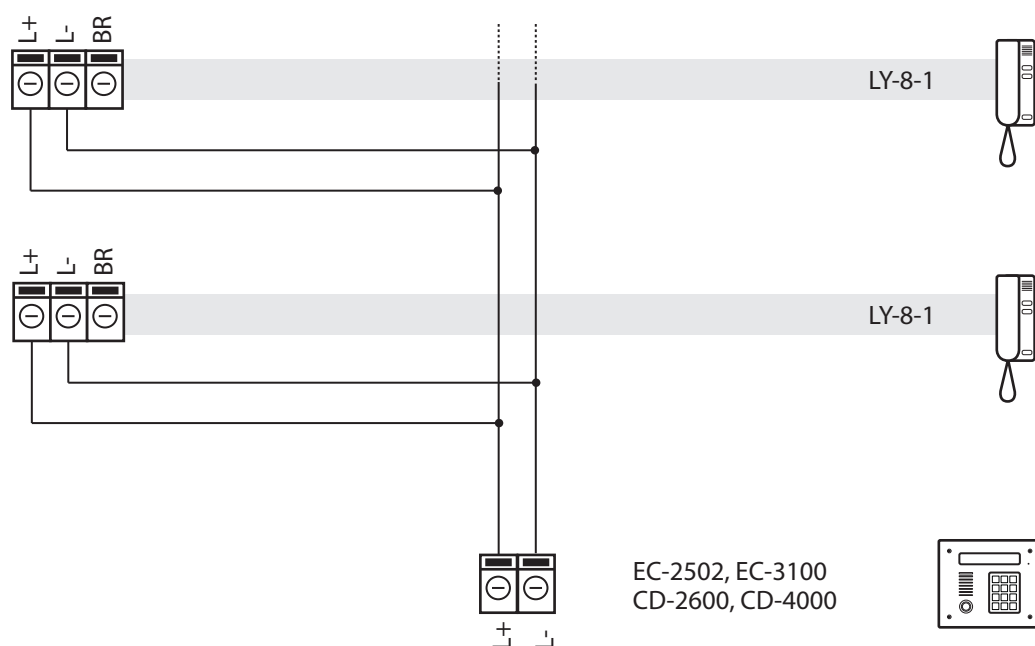


Fig. 3. Connecting the door entry handset to the Laskomex doorphone system, system without gate drive control.

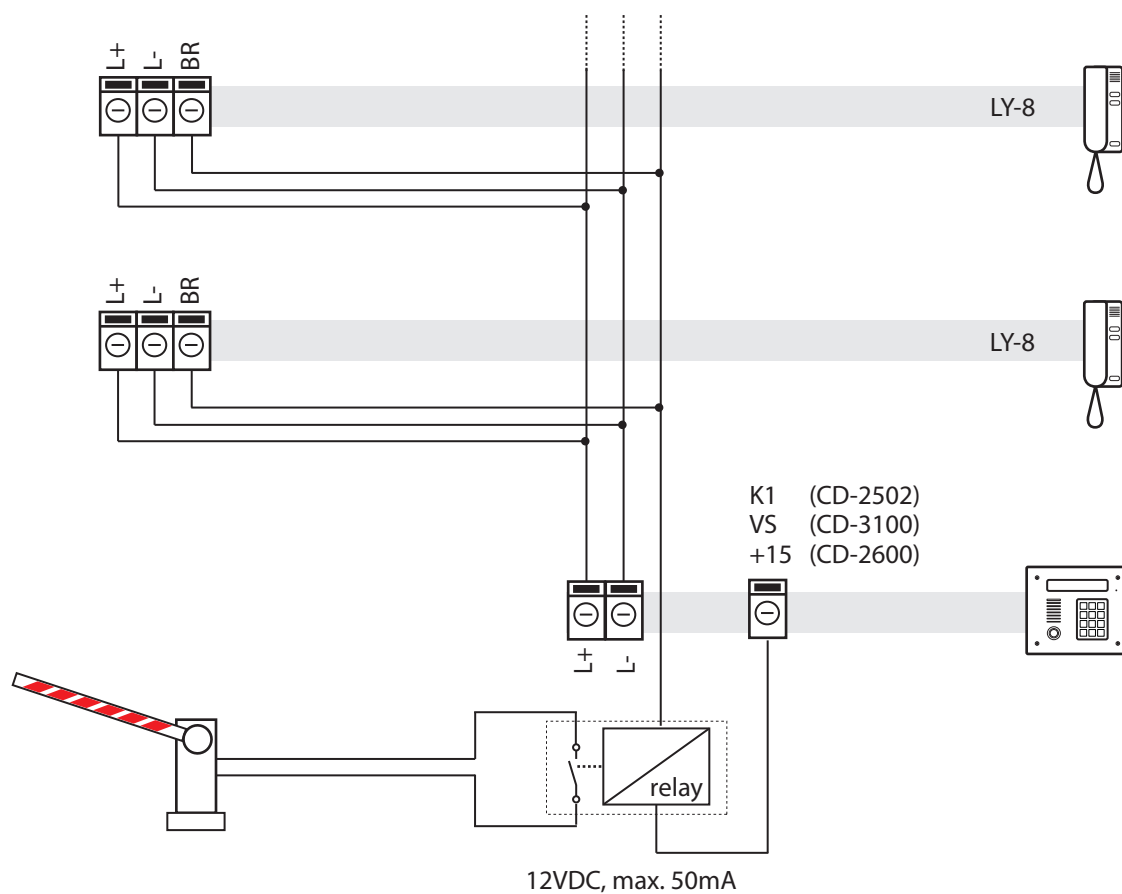


Fig. 4. Connecting the door entry handset to the Laskomex doorphone system, system with gate drive control.

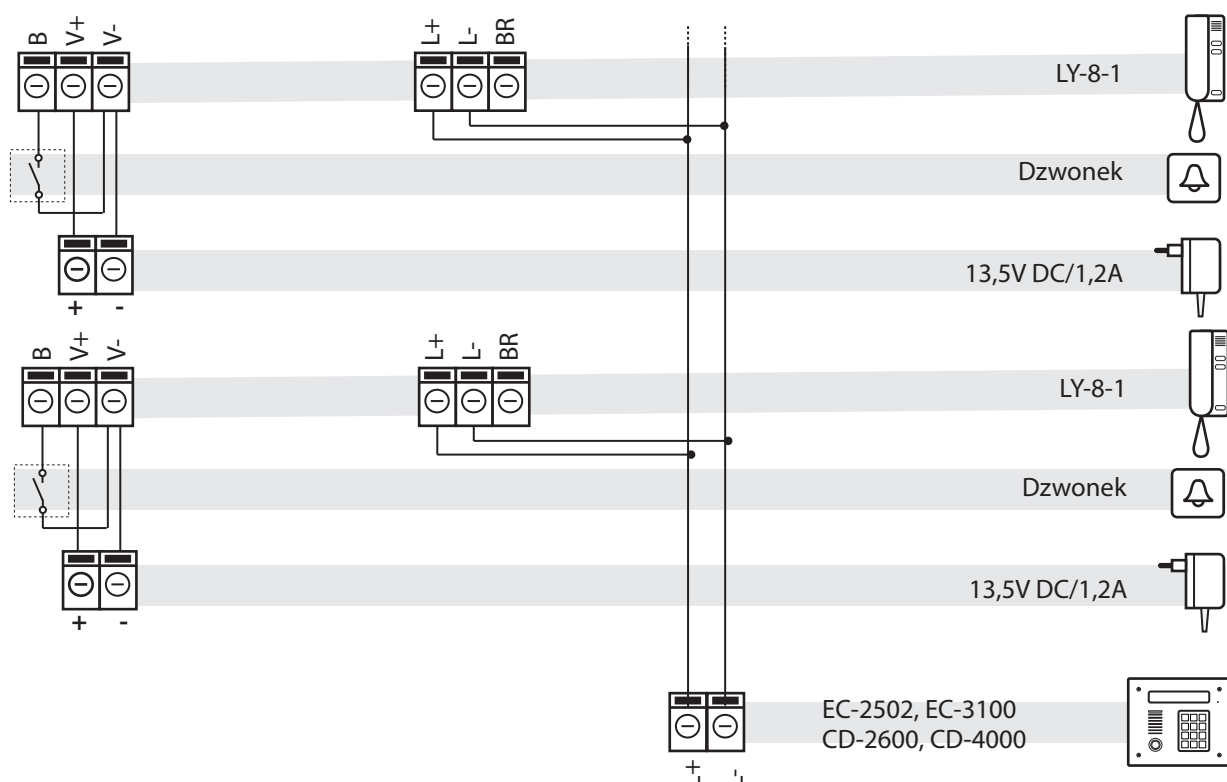


Fig. 5. Connecting the LY-8-1 door entry handset. Powering door entry handsets from local power supplies.

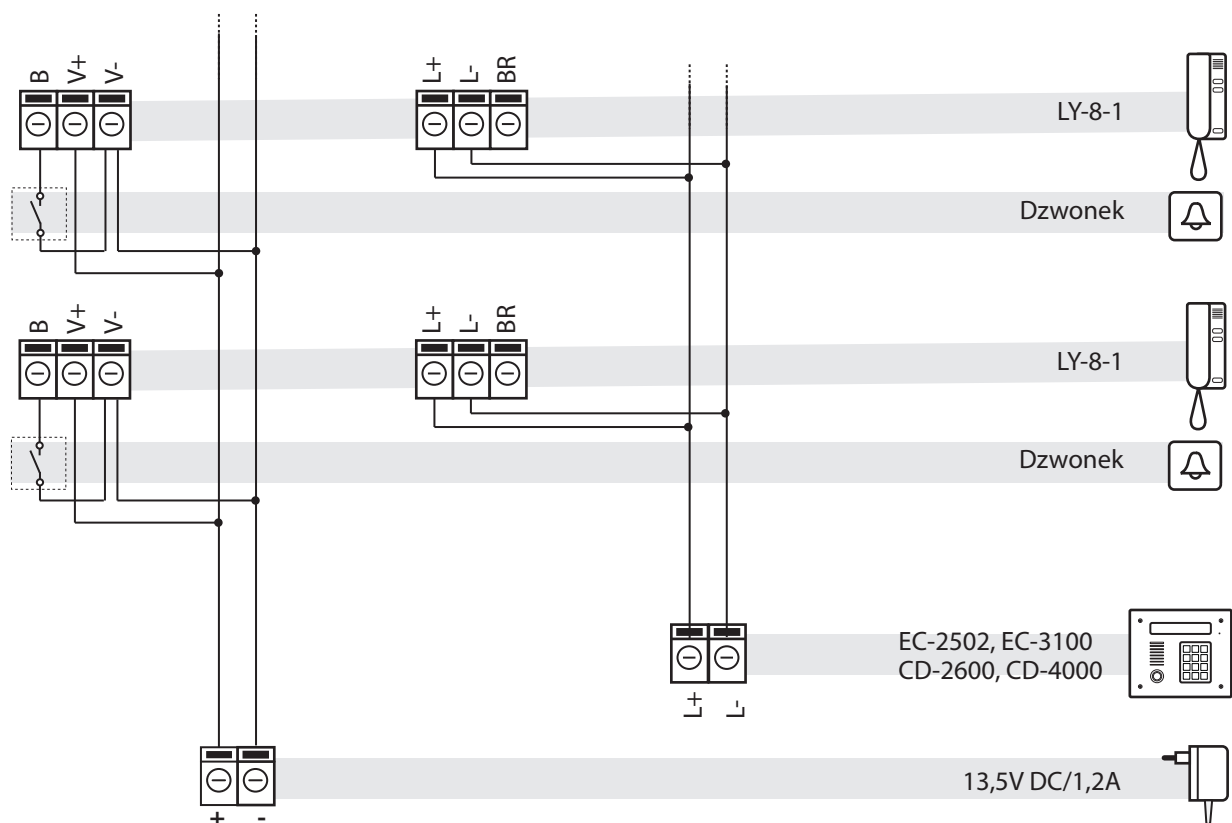
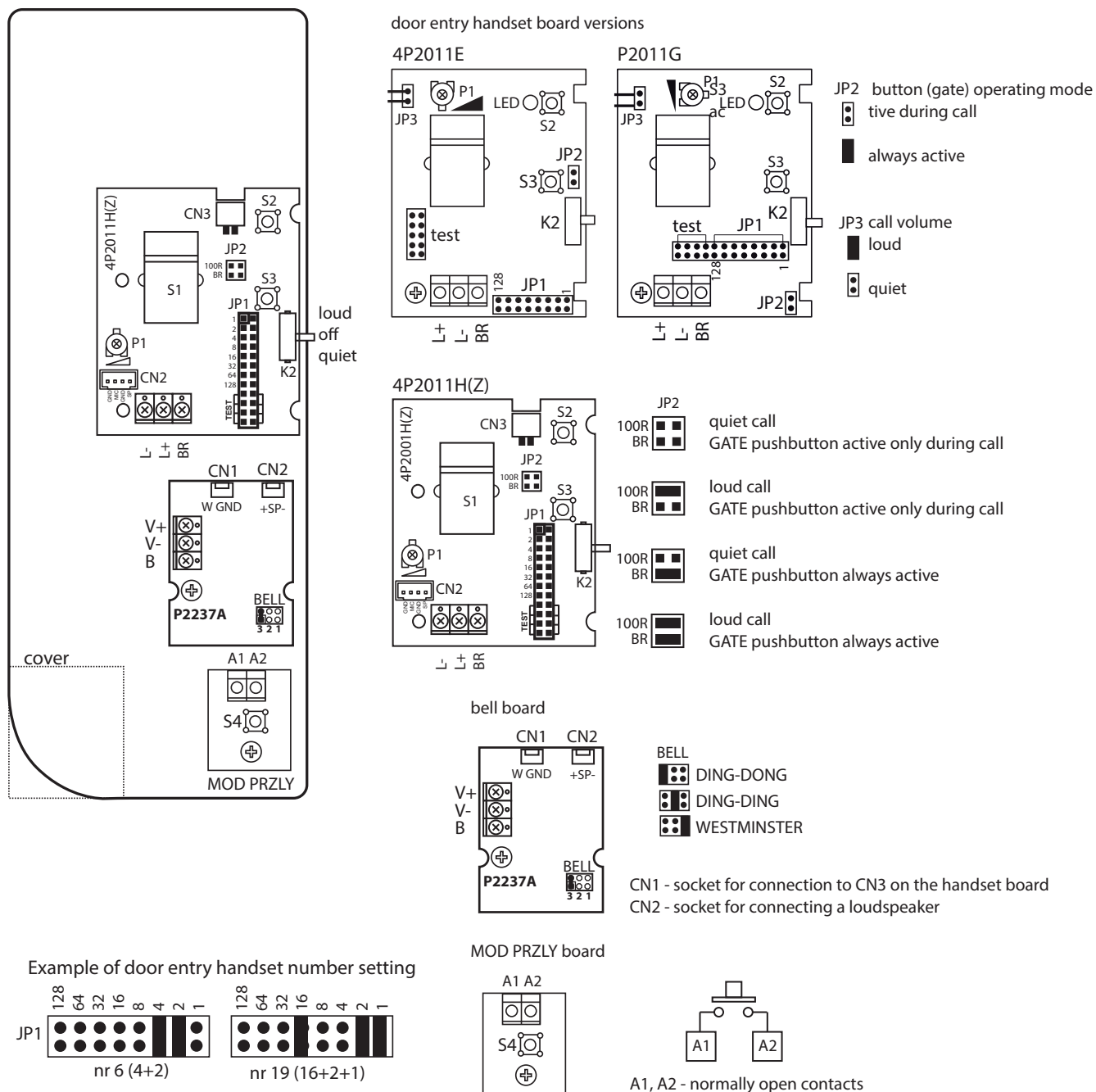


Fig. 6. Connecting the LY-8-1 door entry handset. Powering door entry handsets from a central power supply.



S1 handset lever
 S2 HOOK button
 S3 GATE pushbutton
 S4 additional button
 P1 microphone gain
 K2 call volume

JP1 door entry handset number setting
 JP2 gate pushbutton and call volume configuration (in version 4P2001H)
 JP2 gate pushbutton operating mode (in other versions)
 JP3 call volume

TEST test connector
 BELL bell selection
 L+,L- door entry handset line
 BR gate control output
 V+,V- ring module power supply
 B ring button input
 A1, A2 additional button contacts (MOD PRZLY board)

Fig. 7. Connectors, configuration jumpers and intercom control elements.

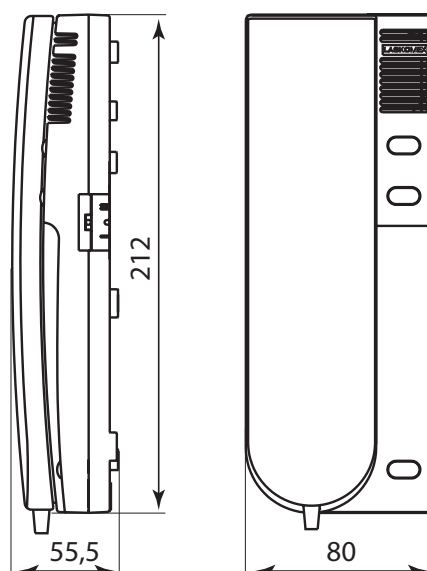


Fig. 8. Door entry handset dimensions.

9. Technical data and description of terminals

Available models

LY-8	basic model
LY-8-1	handset with doorbell function

Technical data

Protection rating	IP30
Dimensions	212x80x46 mm
BR contact load capacity	max. 24 V DC / 20 mA

Doorbell module

Power supply	13.5 V DC / 1.2 A
current consumption during ringing	250 mA
current consumption during standby	10 mA

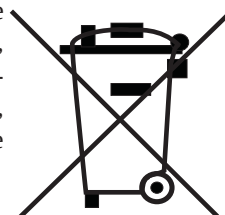
Note! Assuming that no more than 4 devices will ring at the same time, a 13.5 V / 1.2 A power supply can power a group of 32 door entry handsets.

Terminal description

L+, L	audio line
BR	gate drive control
B	bell
V+, V	bell module power supply
A1, A2	additional button terminals

ENVIRONMENTAL PROTECTION GUIDELINES

The product is marked with a crossed-out wheellie bin symbol in accordance with European Directive 2012/19/EU on waste electrical and electronic equipment. After it has been used or is no longer in use, it must not be disposed of with other ordinary household waste. The user of the product is obliged to return it to a collection point for waste electrical and electronic equipment, such as local collection points, shops, points designated by the manufacturer and appropriate municipal waste collection units. The product packaging should be disposed of in accordance with environmental protection regulations.



Remember!

The selective disposal of waste electrical and electronic equipment contributes significantly to the protection of human health and life and the protection of the natural environment. Returning packaging materials to the material cycle saves raw materials and reduces waste.



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