

Mounting instructions ekey net control panel MINI 1/2/3

ID93/161/0/96: Version 7, 02.11.2012

Scope of delivery

CONTROL PANEL

ASSEMBLY INSTRUCTIONS



800975

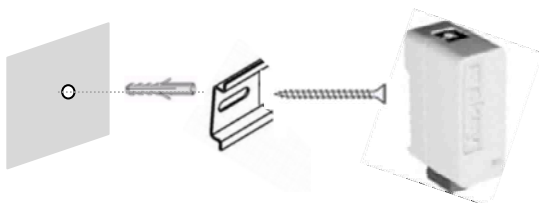
2 LK 2.9 X 38
SCREWS



DIN RAIL



ekey net control panel Mini – wall mounting

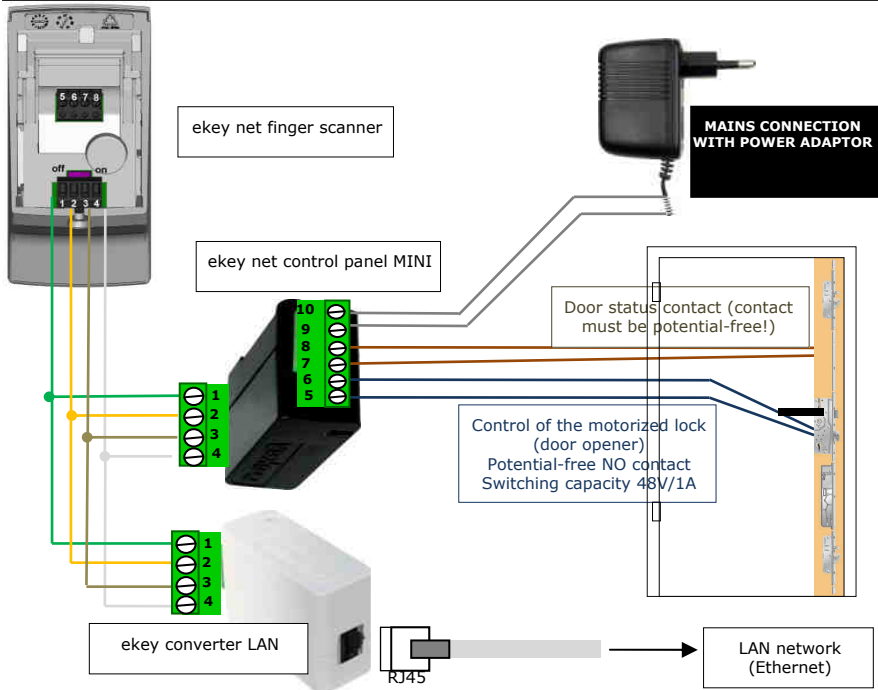


First install the mounting rail (DIN rail 35mm). The ekey net control panel Mini is then locked into position on the mounting rail. The ekey home control panel Mini is not designed for mounting outdoors, as it does not have a dust or water-proof cover (protection class of the control panel = IP20). Make sure that the device is mounted in a suitably protected place (e.g. switch cabinet).

You can, of course, also mount the control panel in a switch cabinet on a standard DIN rail (35mm).

Electrical connection in ekey net (schematic)

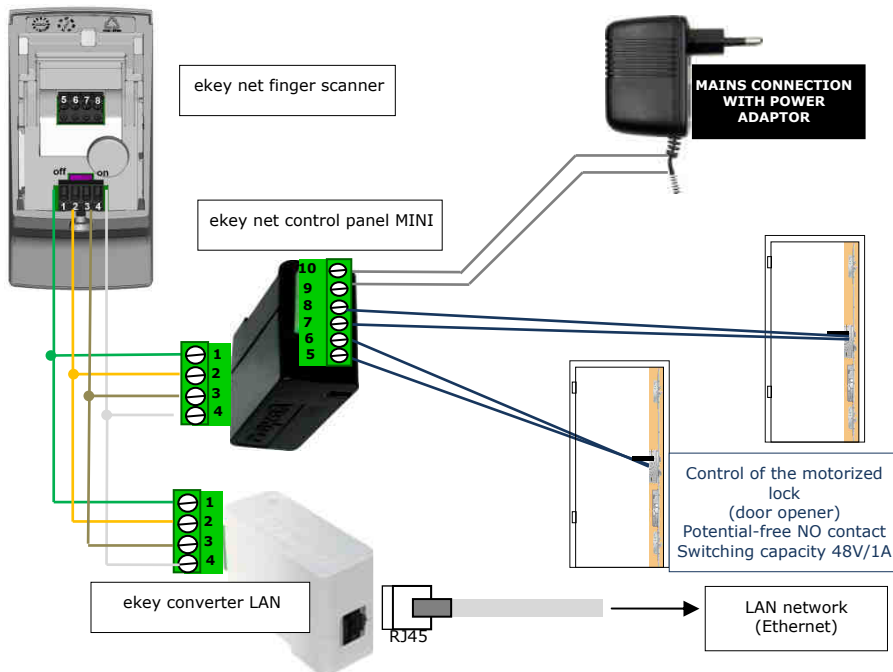
ekey net control panel MINI 1 (100666)



| PIN no.: | ekey net control panel Mini |
|----------|-----------------------------|
| 1 | RS485B (Clamp 1) |
| 2 | RS485A (Clamp 2) |
| 3 | -VCC (Clamp 3) switched |
| 4 | + VCC (Clamp 4) |

| PIN no.: | ekey net control panel Mini |
|----------|-------------------------------|
| 5 | REL1C (relay contact 1) |
| 6 | REL1NO (relay contact 2) |
| 7 | IN1H (input H) = door contact |
| 8 | IN1L (input L) = door contact |
| 9 | -VCC or power supply 9V A/C) |
| 10 | +VCC or power supply 9V A/C) |

Electrical connection in ekey net (schematic) ekey net control panel MINI 2 (100667)

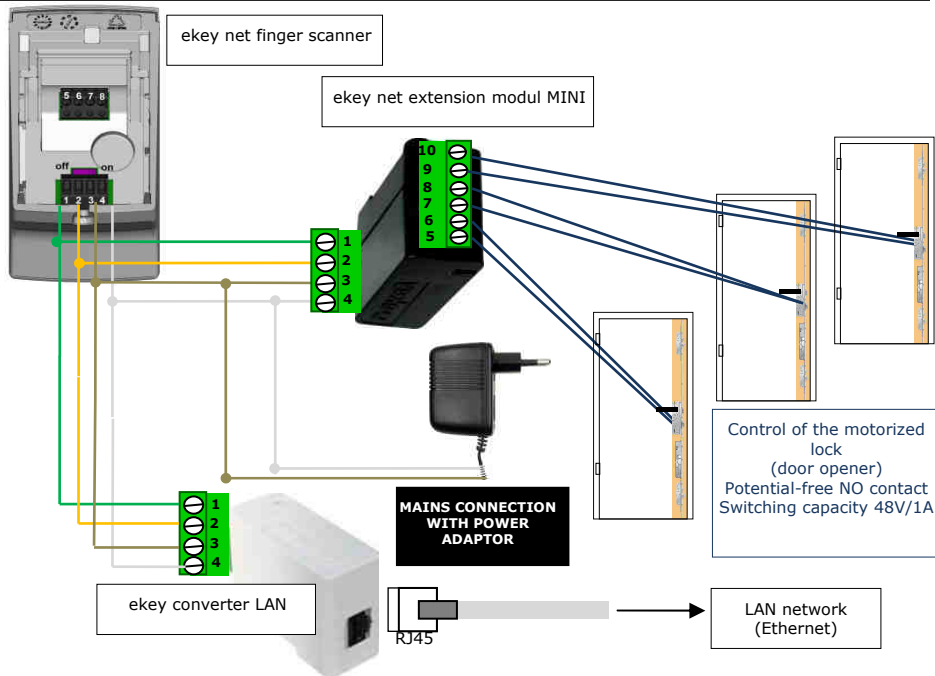


| PIN no.: | ekey net control panel Mini |
|----------|-----------------------------|
| 1 | RS485B (Clamp 1) |
| 2 | RS485A (Clamp 2) |
| 3 | -VCC (Clamp 3)switched |
| 4 | + VCC (Clamp 4) |

| PIN no.: | ekey net control panel Mini |
|----------|------------------------------|
| 5 | REL1C (relay 1 contact 1) |
| 6 | REL1NO (relay 1 contact 2) |
| 7 | REL2C (relay 2 contact 1) |
| 8 | REL2NO (relay 2 contact 2) |
| 9 | -VCC or power supply 9V A/C) |
| 10 | +VCC or power supply 9V A/C) |

Electrical connection in ekey net (schematic)

ekey net extension modul MINI 3 (100668)



| PIN No.: | ekey net panel Mini | control |
|----------|-------------------------------------|---------|
| 1 | RS485B (Clamp 1) | |
| 2 | RS485A (Clamp 2) | |
| 3 | -VCC (CI3) or power supply 9V A/C) | |
| 4 | + VCC (CI4) or power supply 9V A/C) | |

| PIN No.: | ekey net control panel Mini |
|----------|-----------------------------|
| 5 | REL1C (relay 1 contact 1) |
| 6 | REL1NO (relay 1 contact 2) |
| 7 | REL2C (relay 2 contact 1) |
| 8 | REL2NO (relay 2 contact 2) |
| 9 | REL3C (relay 3 contact 1) |
| 10 | REL3NO (relay 3 contact 2) |

TECHNICAL DATA

| Technical data ekey net control panel MINI | Unit | Values |
|---|----------|----------------|
| Supply | VAC | 8-24 |
| | VDC | 8-30 |
| Power input | W | ~ 1 |
| Relays | Quantity | 1-3 *version |
| Relay switching capacity | | 42V DC/AC / 1A |
| Temperature range | °C | -20 up to +70 |
| Protection class | | IP20 |
| Digital inputs (only potential-free contacts can be connected!) | | 0-1 *version |

We recommend using the cable types below in your system:

J-Y(ST)Y 4 x 2 x 0,8

Wire configuration:

2x RS485 bus (green/white) + 2x RS485 (yellow/white) as a reserve
2x power supply (red/blue) + 2x as a reserve (brown/white) for cross-section increase for cable lengths > 50m

The maximum cable lengths and the structure of the network can be seen in the ekey net specifications (ekey_net_Spezifikation.pdf).

1 relay (semi-conductor) is available for controlling external devices. The relay has a change-over contact. The maximum switching capacity is 42V D/C (A/C) / 1A. Each door lock has to be connected, without any exception, to a separate power supply.








The connection cable between the ekey net control panel, the ekey net finger scanner and the ekey net CV LAN is to be laid separately from the electrical installations of the building, as these signals produce a low-voltage area which can be impaired by adjacent live cables.

The connections do not have reverse polarity protection!







An incorrect electrical connection of the system can cause damage to the device!

Optical signalling and trouble-shooting

Here you can see the statuses and displays on the ekey net control panel mini during operation.

| | | |
|--|---|--|
|  <p>SE MINI J STATUS R1 Input</p> | <p>ekey net CP MINI 1</p> | |
| <p>STATUS LED</p> | | |
|  | <p>Green light flashing</p> | <p>Normal mode</p> |
|  | <p>Orange/ red light alternately flashing</p> | <p>Firmwareupdate</p> |
|  | <p>Orange light flashing</p> | <p>Connection to ekey net CV LAN interrupted</p> |
|  | <p>Red light on</p> | <p>Error: e.g. NU</p> |
| <p>R1 LED</p> | | |
|  | <p>Green light on</p> | <p>Relay 1 switched</p> |
| <p>Input</p> | | |
|  | <p>Orange light on</p> | <p>Door contact input is closed</p> |

| | | |
|--|---|--|
|  <p>SE MINI J Status R1 R2</p> | <p>ekey net CP MINI 2</p> | |
| <p>STATUS LED</p> | | |
|  | <p>Green light flashing</p> | <p>Normal mode</p> |
|  | <p>Orange/ red light alternately flashing</p> | <p>Firmwareupdate</p> |
|  | <p>Orange light flashing</p> | <p>Connection to ekey net CV LAN interrupted</p> |
|  | <p>Red light on</p> | <p>Error: e.g. NU</p> |
| <p>R1 LED</p> | | |
|  | <p>Green light on</p> | <p>Relay 1 switched</p> |
| <p>R2 LED</p> | | |
|  | <p>Green light on</p> | <p>Relay 2 switched</p> |

| | | |
|---|---|--|
|  | ekey net EM Mini 3 | |
| STATUS LED | | |
|  | Green light flashing | Normal mode |
|  | Orange/ red light alternately flashing | Firmwareupdate |
|  | Orange light flashing | Connection to ekey net CV LAN interrupted |
|  | Red light on | Error: e.g. NU |
| R1 LED | | |
|  | Green light on | Relay 1 switched |
| R2 LED | | |
|  | Green light on | Relay 2 switched |
| R3 LED | | |
|  | Green light on | Relay 3 switched |



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