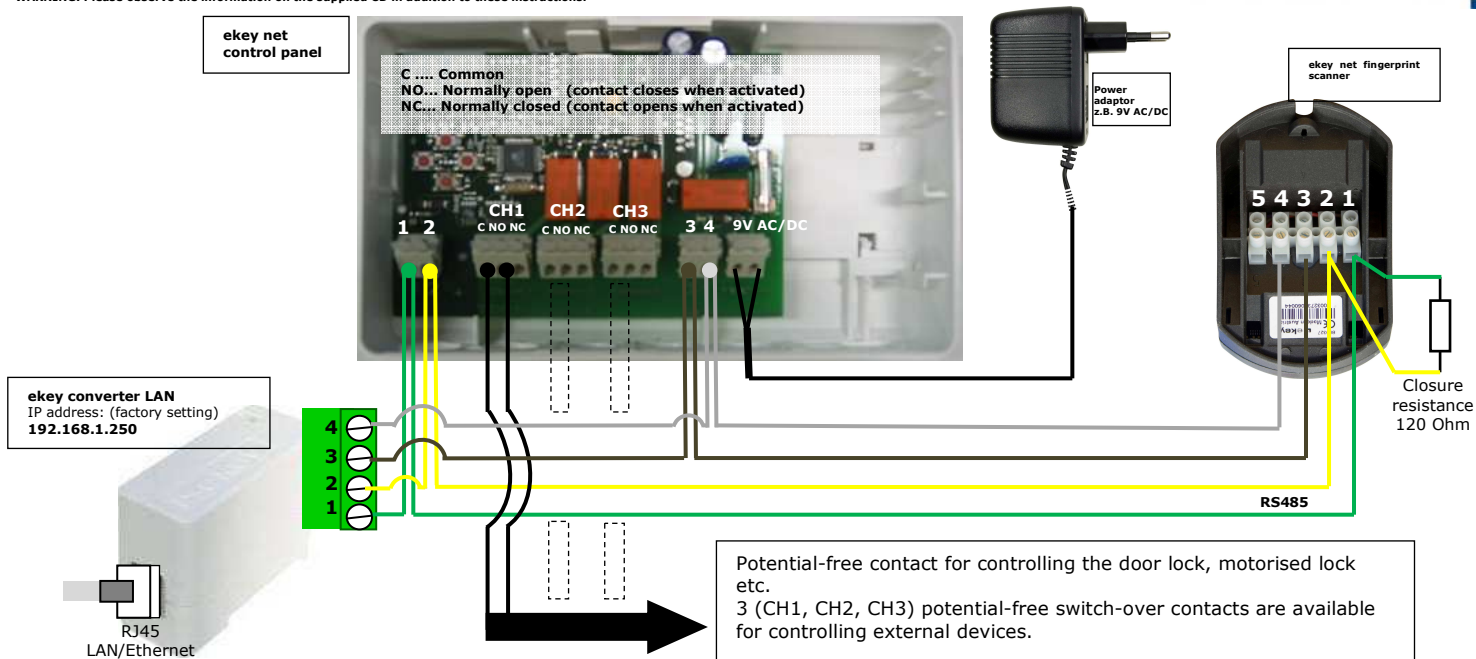


Wiring plan ekey net

The latest valid version of this document can be found at www.ekey.net. Subject to optical and technical alterations, as well as syntax and printing errors.

WARNING! Please observe the information on the supplied CD in addition to these instructions.



The control panel and the fingerprint scanner must be connected with a 4-core cable which has a minimum diameter of 0.5 mm (corresponds to a 0.14 mm² core diameter). For distances of over 50m a cable with a larger core diameter has to be selected for the live cores (connections 3 and 4). Ekey recommends the use of the following cable types:

J-Y(ST)Y 3 x 2 x 0,6mm : cable length < 100m

UNITRONIC® J-2Y(ST)Y 3 x 2 x 0,6 ST III BD: cable length exceeds 100m (only bus – wires (1,2)).

Please wire a maximum of 8 devices (4 sets) – on a max. bus length of 500m per ekey converter LAN – with closure resistance of 120 Ω, if more the 3 devices are wired to the RS485-bus. Please observe the guidelines and definitions on RS485 Bus topology, provided in the specifications on the supplied CD.

The control panel and the fingerprint scanner should, if possible, be attached in alternate order on the RS485 - bus (this is beneficial for error-free operation in stand-alone mode in case of wire breakage). The connection cable between the control panel and the fingerprint scanner 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. The creation of electrical connections and the connection to the mains can only be carried out by specialists!