

Electronic control system MCS-P Topology



Power supply 230V AC

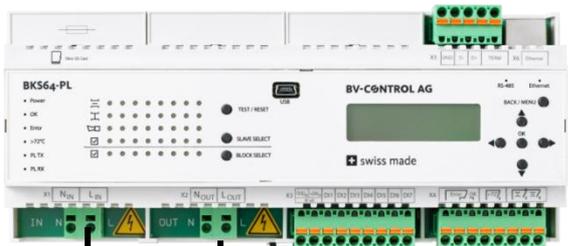
Central control unit
BK564-PL, power
supply from the
network 230V AC

Possibility to monitor up
to 64 communication
modules in any topology

Communication is done via powerline technology; directly via 230VAC power cable

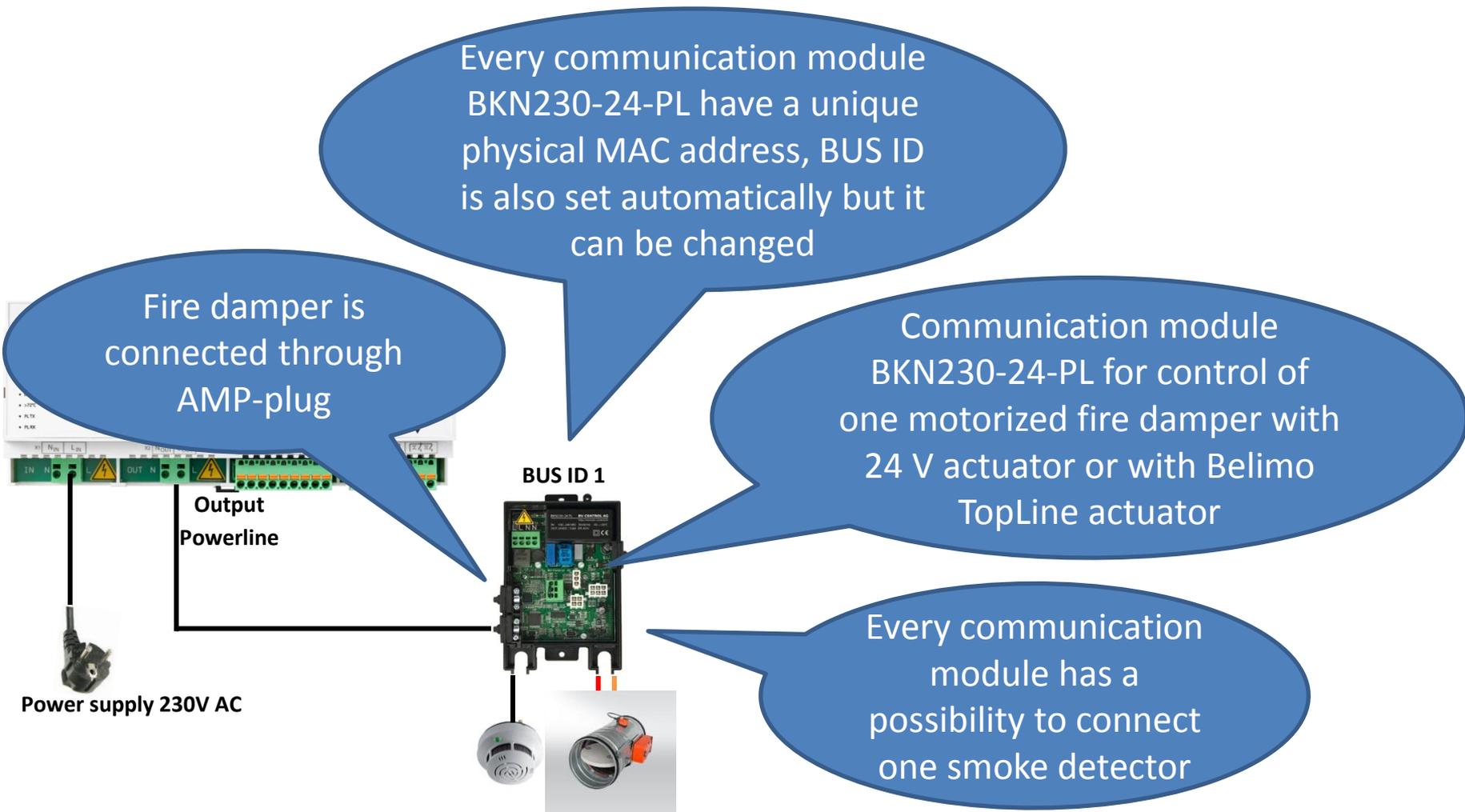
When connecting to 32 slaves, a cable with a cross section 1.5 mm² may be used, if the number of connected slaves is more than 32, a cable with a cross section of 2.5 mm² is used

It is recommended to use shielded installation cables to prevent any interference

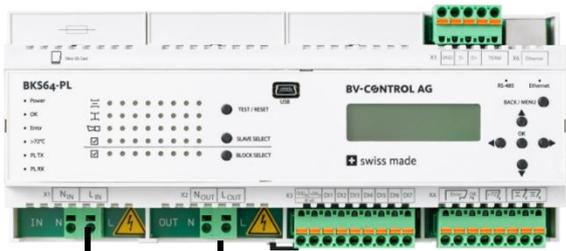


Output
Powerline

Power supply 230V AC



Communication modules
BKN230-24-PL enable
Daisy Chain power supply

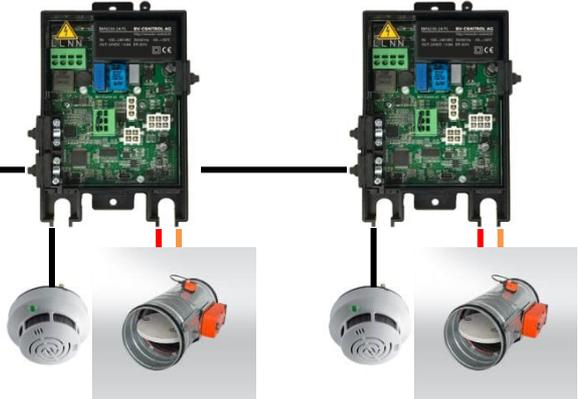


Output
Powerline

Power supply 230V AC

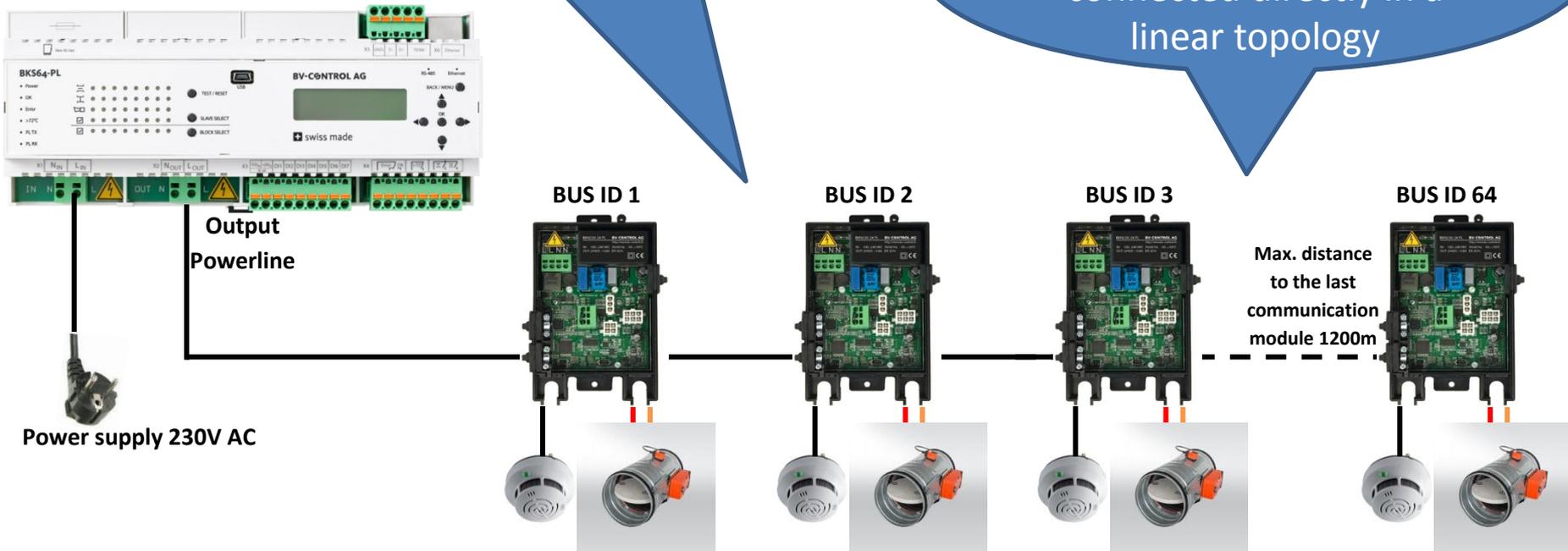
BUS ID 1

BUS ID 2

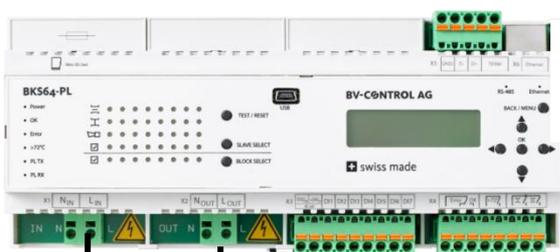


For connection of more than 32 communication modules BKN230-24-PL in a linear topology the cable with cross section of 2.5 mm² is used

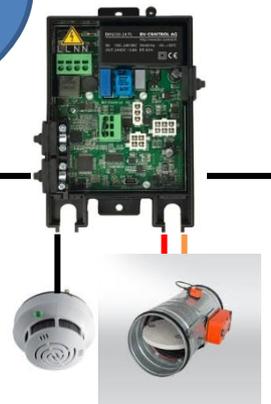
Max. 64 communication modules BKN230-24-PL connected directly in a linear topology



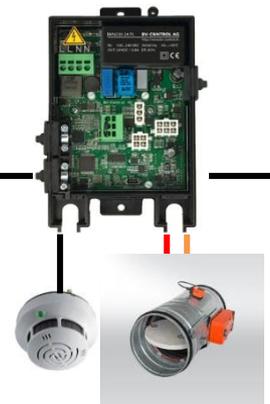
Max. 64 communication modules BKN230-24-PL connected in BUS topology



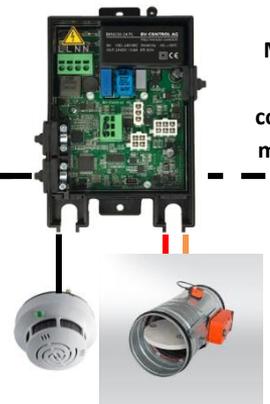
BUS ID 21



BUS ID 22



BUS ID 23

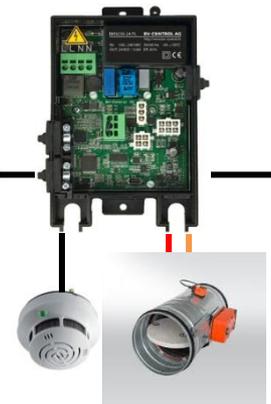


BUS ID 64



Max. distance to the last communication module 1200m

BUS ID 1



BUS ID 2



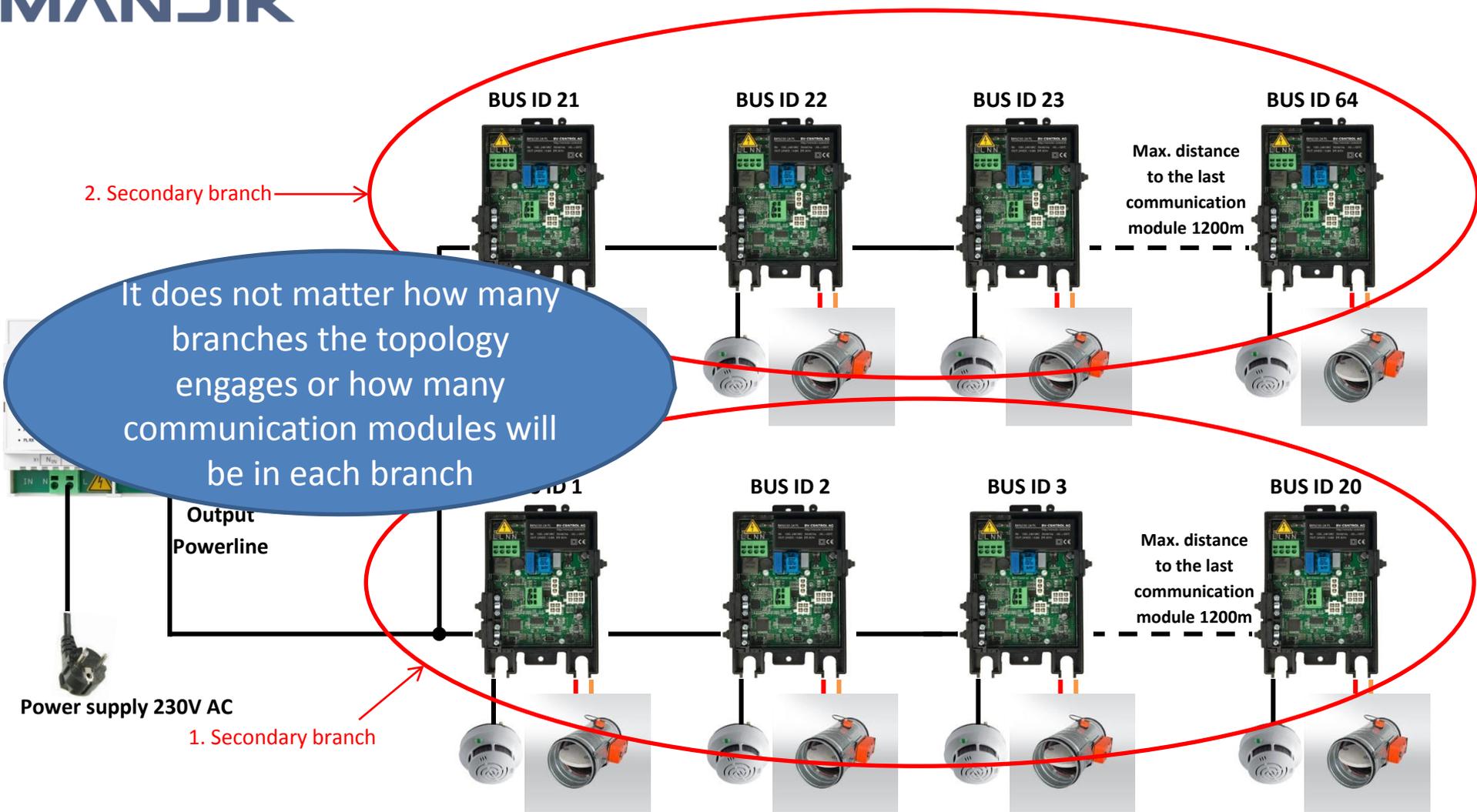
BUS ID 3



BUS ID 20

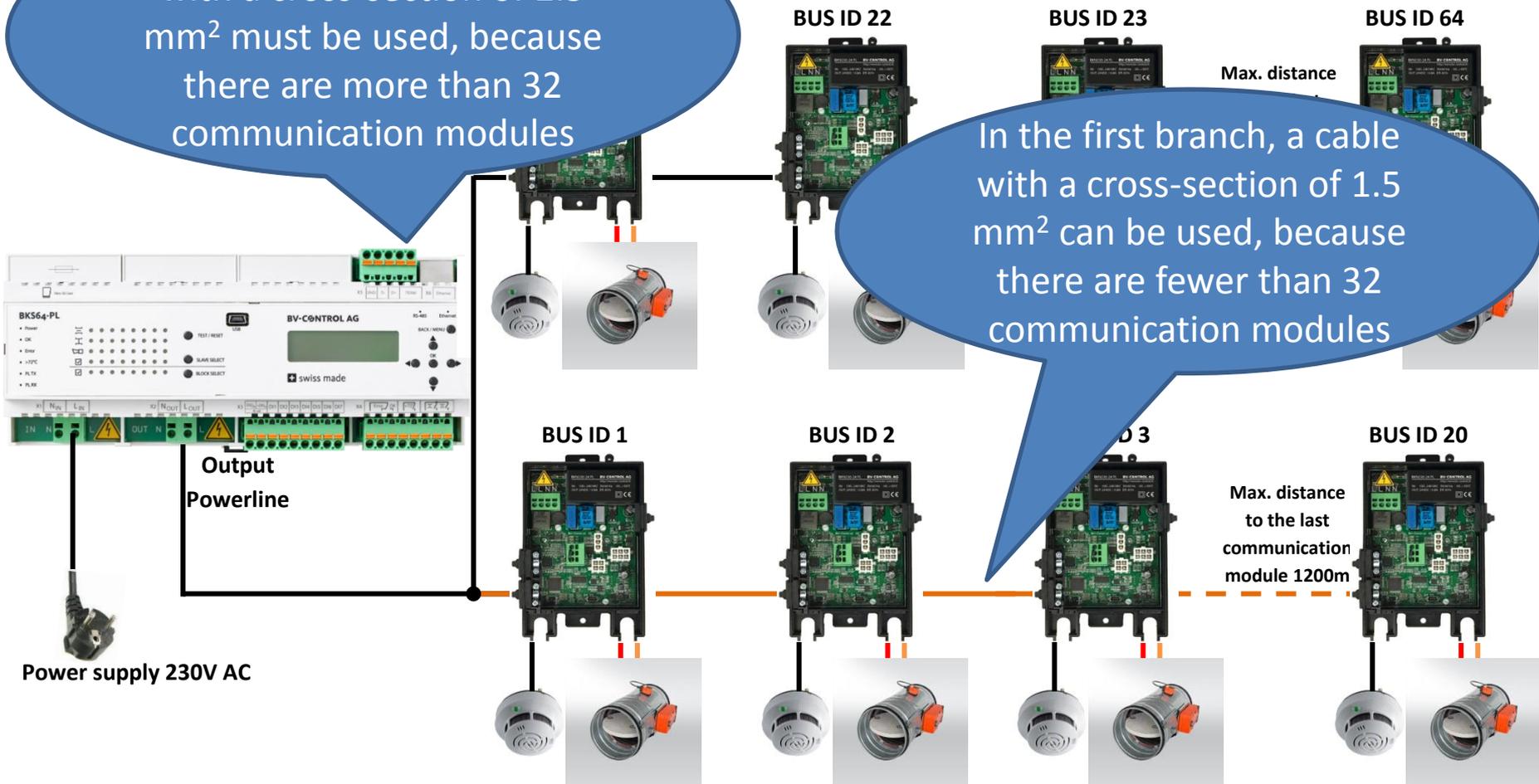


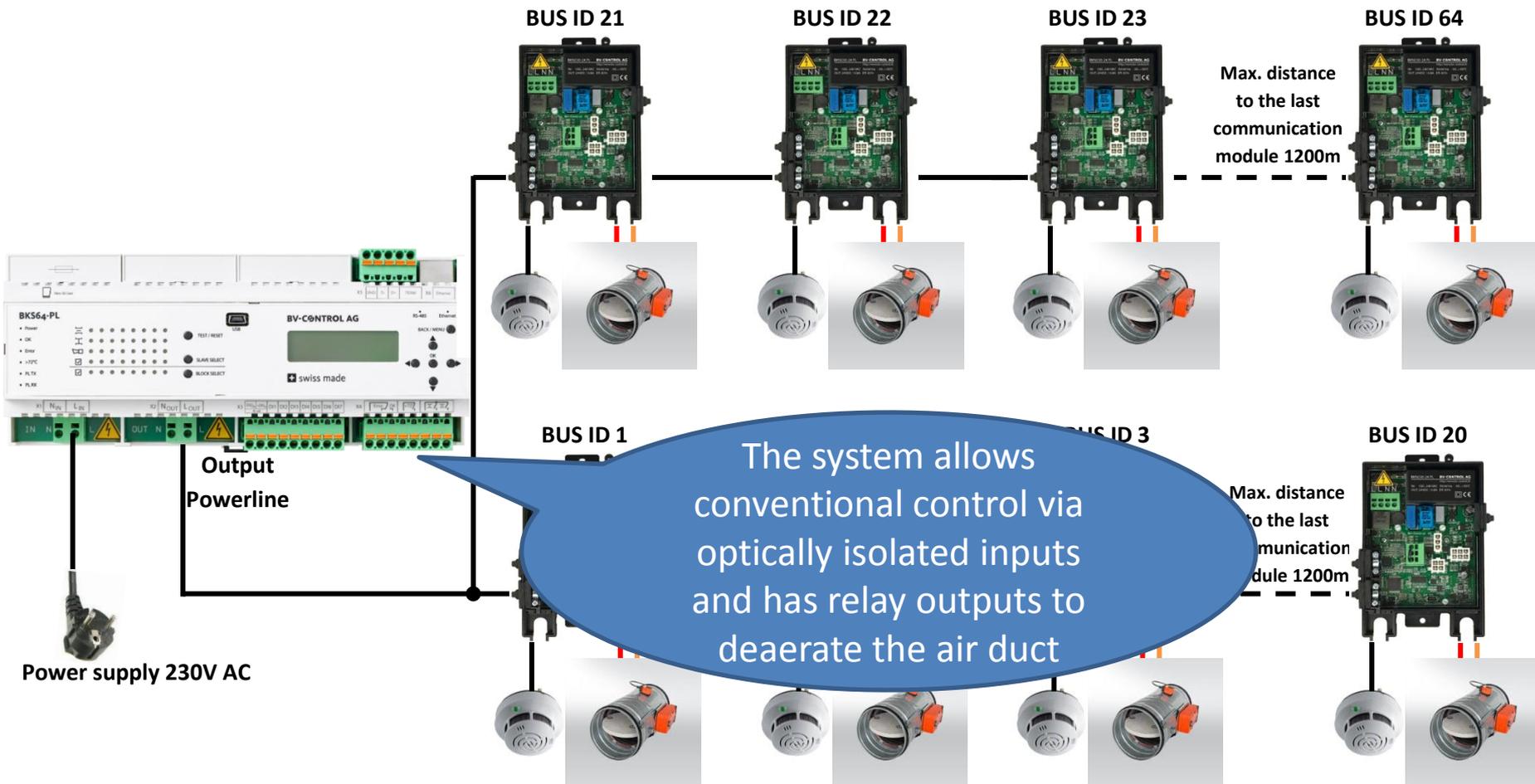
Max. distance to the last communication module 1200m



In the second branch, a cable with a cross-section of 2.5 mm² must be used, because there are more than 32 communication modules

In the first branch, a cable with a cross-section of 1.5 mm² can be used, because there are fewer than 32 communication modules

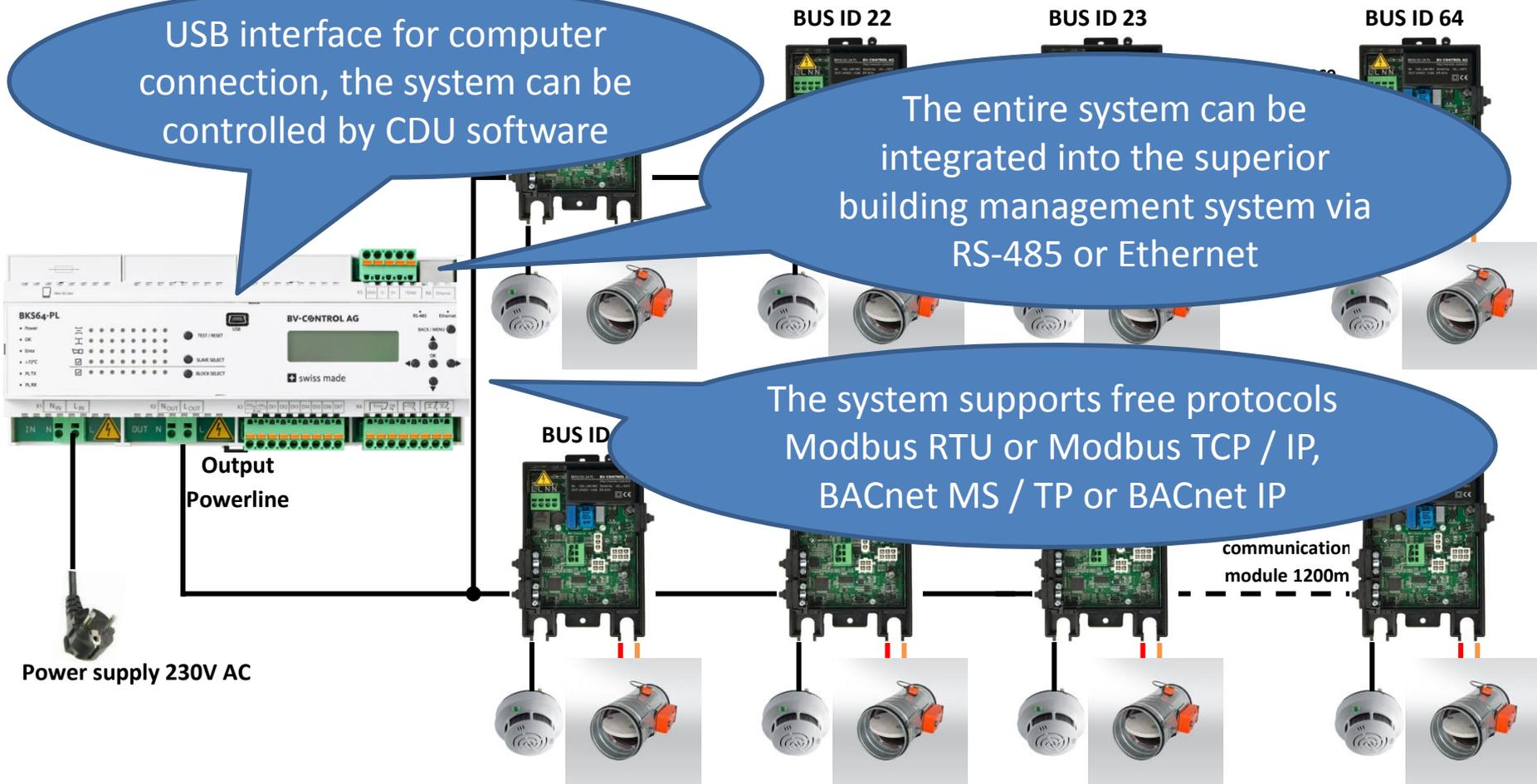




USB interface for computer connection, the system can be controlled by CDU software

The entire system can be integrated into the superior building management system via RS-485 or Ethernet

The system supports free protocols Modbus RTU or Modbus TCP / IP, BACnet MS / TP or BACnet IP



Power supply 230V AC

Output Powerline

BUS ID 22

BUS ID 23

BUS ID 64

BUS ID

communication module 1200m

