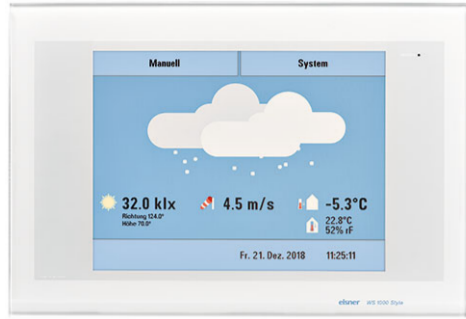


Brief Instruction Mounting of WS1000 Style

Item numbers 60201-60204, 60206-60209 (WS1000 Style), 60214 (WS1000 Style-10 PF)



The manual with additional information about commissioning, functions and use of the controls **WS1000 Style** can be downloaded from www.elsner-elektronik.de in the menu area "Service/Downloads".



Warning, mains voltage! National legal regulations are to be observed. Installation, inspection, commissioning and troubleshooting of the device must only be carried out by a competent electrician.

Notes on wireless equipment

When planning facilities with devices that communicate via radio, adequate radio reception must be guaranteed. The range will be limited by legal regulation and structural circumstances. Avoid sources of interference and obstacles between receiver and transmitter, that could disturb the wireless communication. Those would be for example:

- Walls and ceilings (especially concrete and solar protection glazing).
- Metal surfaces next to the wireless participants (e. g. aluminium construction of a conservatory).
- Other wireless devices and powerful local transmitters (e.g. wireless headphones), which transmit on the same frequency. Please maintain a minimum distance of 30 cm between wireless transmitters for that reason.

Preparing the installation location



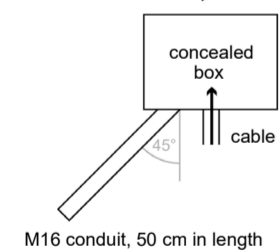
The device must only be installed and used in dry, interior spaces. Avoid condensation.

Cut-out dimensions for concealed box:

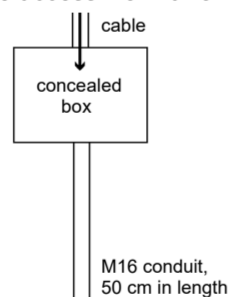
W = 248 mm +1 -0 | H = 165 mm +1 -0 | D = 84 mm

An external antenna can be connected in order to improve wireless communications. During installation, a **conduit 50 cm in length** should be placed beneath the recessed housing, in which the external antenna can be mounted (antenna dimensions approx. 565 x 8 x 5, L x W x H in mm):

Conduit angled diagonally downwards (for cable access from above or below)



Conduit angled vertically downwards (only for cable access from above!)

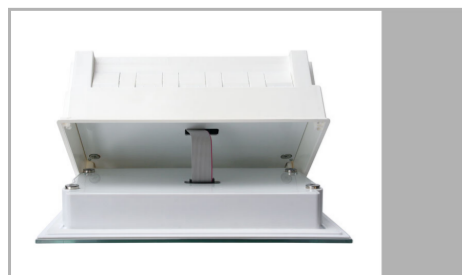


Preparing for installation



The display unit is held by magnets. Remove the front part from the concealed box.

Caution: The display is connected with a flat-ribbon cable to the circuit board in the concealed box.

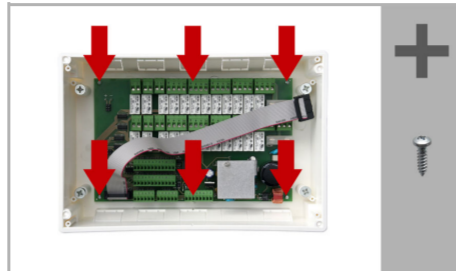


Loosen the plug so that the display unit can be removed.

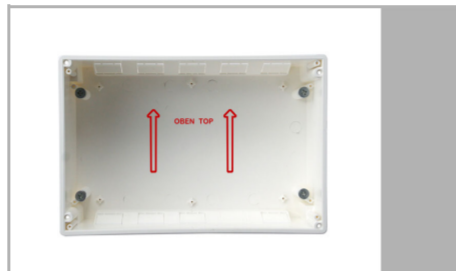
Remove all parts of the transportation lock/packing.



The security covering in the concealed box is attached with four screws: Loosen the screws and take off the security covering.



Remove the circuit board from the concealed box to be installed. Keep it in a place where it is protected from dirt. **It may never be exposed to dust or moisture!**



Place the concealed box in the wall so that the arrows point upwards.

Wall-fitting



For fitting, screw the cover (board) on to the concealed box with the enclosed screws.

Cavity wall fitting



Clamp the concealed box to the wall with the four enclosed screws.

Upon delivery, the pouch containing the assembly screws can be found in the control unit's concealed box.

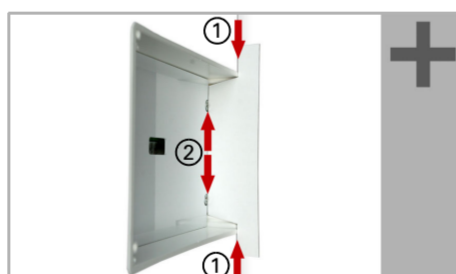
Assembling the control unit with concealed box

During electrical installation, please introduce all connection cables into the concealed box through the lower or upper side wall. In the process, keep the individual connection wires short to prevent long reserve loops.

After connecting the cables screw the security covering onto the concealed box.



The security covering must be fixed before the control is put into operation! It prevents contact with current-carrying parts in the concealed box.



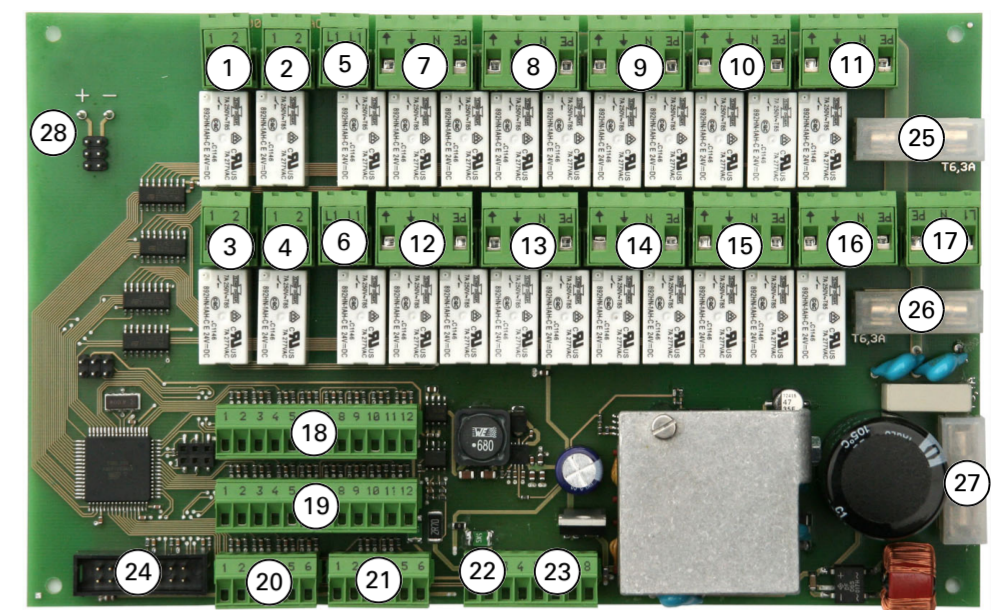
Adjust the screws of the magnetic mounting with the enclosed template. Each of the four screws must be adjusted individually in height.

When the edge of the template rests on the wall surface (1), the template must rest on the mounting screws as well (2).

By adjusting the mounting screws, the display unit will rest flat on the wall later and be held by the magnets safely.

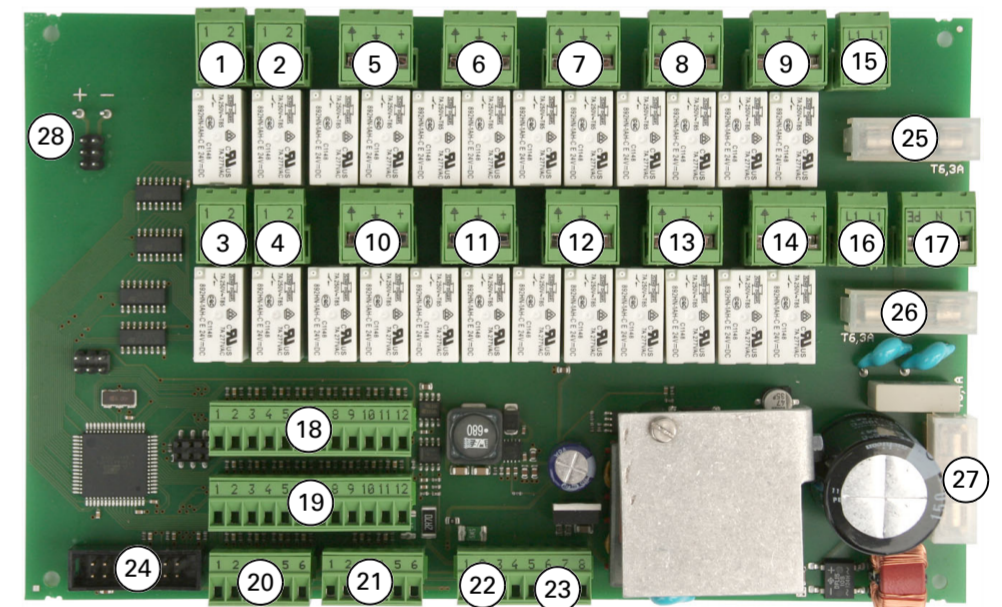
Connect the flat ribbon cable to the display and place the display unit on the concealed box. The magnets must be attracted by the mounting screws considerably and the display unit must rest tightly on the concealed box.

Structure of the connector board WS1000 Style



- | | |
|---|--|
| 1 Multifunctional output 1 (potential-free) | (terminals 1-3) Multifunctional input 2 (terminals 4-6) |
| 2 Multifunctional output 2 (pot.-free) | 22 Weather station (terminals 1-2) Wire assignment: red = 1, black = 2, yellow and white = not connected |
| 3 Multifunctional output 3 (pot.-free) | 23* Multifunctional input 3 (terminals 3-5) Multifunctional input 4 (terminals 6-8) |
| 4 Multifunctional output 4 (pot.-free) | 24 Connector for flat-ribbon cable to front board |
| 5 Outer conductor L1 | 25 Microfuse T6.3 A (Drive 1-5) |
| 6 Outer conductor L1 | 26 Microfuse T6.3 A (Drive 6-10) |
| 7-11 Drive group 1-5 | 27 Microfuse T630 mA |
| 12-16 Drive group 6-10 | 28 Slot KNX interface |
| 17 Mains connection L/N/PE 230 V/50 Hz | |
| 18 Wall button 1 (terminals 1-3) | |
| 19 Wall button 2 (terminals 4-6) | |
| 20 Wall button 3 (terminals 7-9) | |
| 21* Multifunctional input 1 | |
- * Supply voltage indoor sensor possible via MF inputs (No. 21, terminals 1(+), 2(-) | 4(+), 5(-) and No. 23, term. 3(+), 4(-) | 6(+), 7(-)), max. 400 mA altogether.

Structure of the connector board WS1000 Style-PF



- | | |
|---|--|
| 1 Multifunctional output 1 (potential-free) | 21* Multifunctional input 1 (terminals 1-3) |
| 2 Multifunctional output 2 (pot.-free) | Multifunctional input 2 (terminals 4-6) |
| 3 Multifunctional output 3 (pot.-free) | 22 Weather station (terminals 1-2) Wire assignment: red = 1, black = 2, yellow and white = not connected |
| 4 Multifunctional output 4 (pot.-free) | 23* Multifunctional input 3 (terminals 3-5) Multifunctional input 4 (terminals 6-8) |
| 5-9 Drive group 1-5 | 24 Connector for flat-ribbon cable to front board |
| 10-14 Drive group 6-10 | 25 Microfuse T6.3 A (Drive 1-5) |
| 15 Outer conductor L1 | 26 Microfuse T6.3 A (Drive 6-10) |
| 16 Outer conductor L1 | 27 Microfuse T630 mA |
| 17 Mains connection L/N/PE 230 V/50 Hz | 28 Slot KNX interface |
| 18 Wall button 1 (terminals 1-3) | |
| 19 Wall button 2 (terminals 4-6) | |
| 20 Wall button 3 (terminals 7-9) | |
| 21* Multifunctional input 1 | |
- * Supply voltage indoor sensor possible via MF inputs (No. 21, terminals 1(+), 2(-) | 4(+), 5(-) and No. 23, term. 3(+), 4(-) | 6(+), 7(-)), max. 400 mA altogether.

Technical specifications Control Unit WS1000 Style

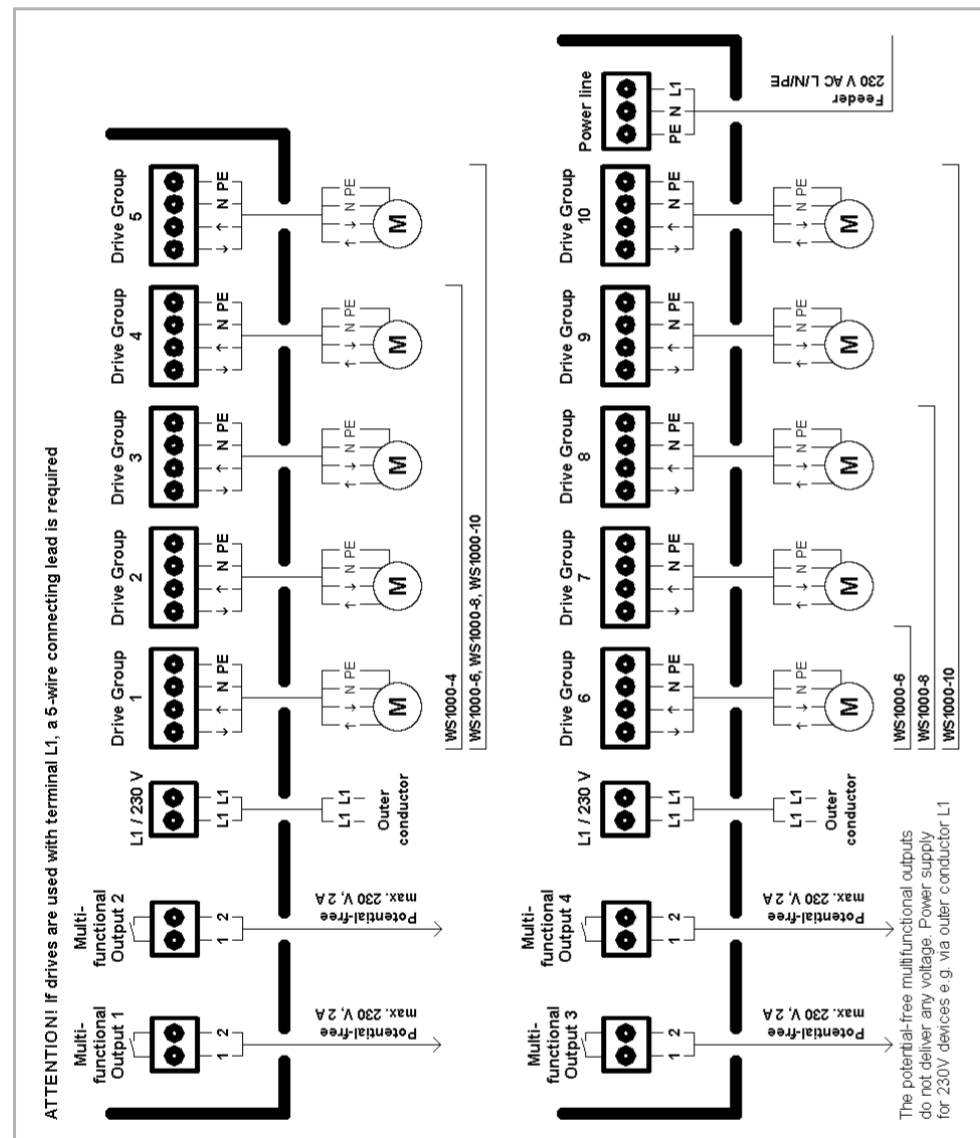
Housing	Glass, plastic material
Colours	• White/grey • Dark grey/black
Mounting	Flush/cavity wall
Dimensions	Display front approx. 1270x 185 (W x H, mm), mounting depth approx. 9 mm, concealed box approx. 254 x 171 x 85 (W x H x D, mm)
Ambient temperature	Operation 0...+55°C, Storage -30...+70°C
Ambient humidity	5...95% RH, avoid bedewing
Operating voltage	230 V AC, 50 Hz
Power consumption	Stand-by max. 17 W
Loading capacity drive outputs	230 V outputs: per motor output, max. 400 W, total max. 1.5 kW Potential-free outputs (PF model): per motor output max. 5 A / 230 V
Frequency wireless channels	868.2 MHz
Degree of protection	IP 20

The product conforms with the provisions of EU directives.

Connection diagrams

Drive and MF outputs WS1000 Style (60201-60204, 60206-60209):

max. 400 W per motor output,
total max. 1.5 kW for all motor outputs



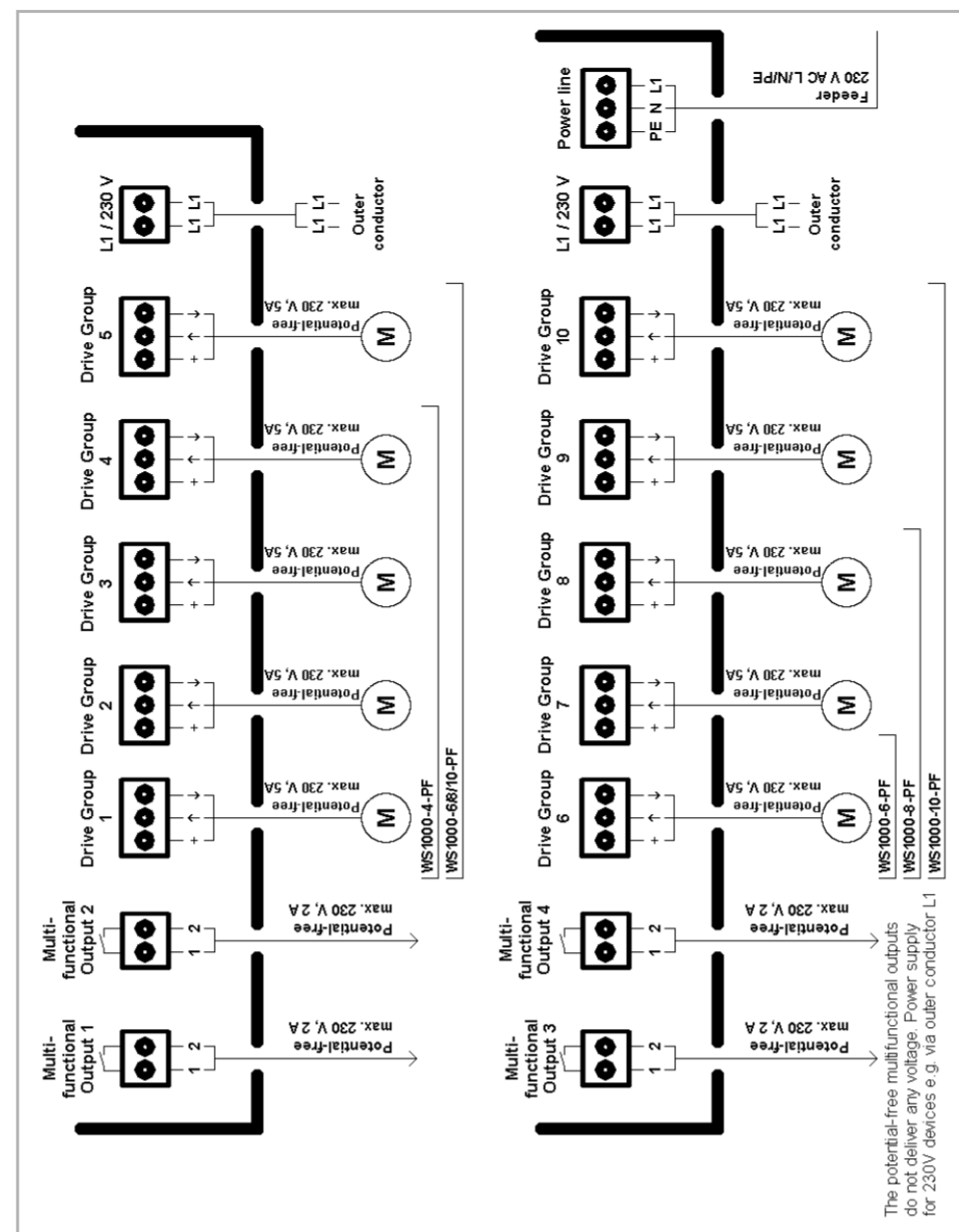
Drive and MF outputs WS1000 Style-PF (60214):

per motor output max. 5 A / 230 V

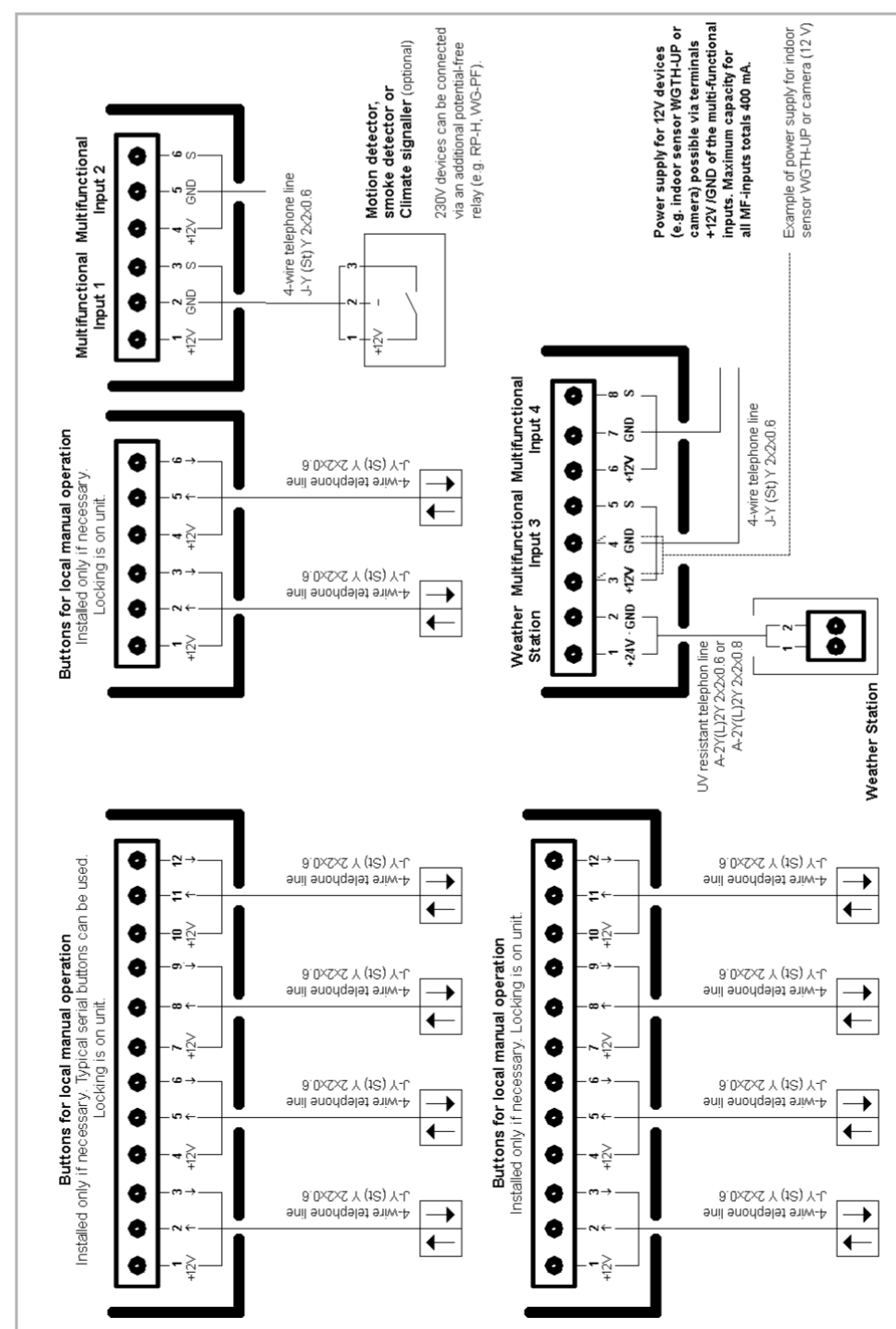
Motors with different voltages may be operated at the drive outputs (230 V AC and low voltages SELV). The low voltage drives still correspond to the SELV specifications.

230 V and SELV must not be mixed at adjacent multifunction outputs (1 and 2 or 3 and 4). A mixed connection does not correspond to the SELV specifications. Either 230 V or extra-safety voltages are permitted here.

E.g. it is possible to connection SELV to MF outputs 1 and 2 and 230 V to MF outputs 3 and 4 (or vice versa).

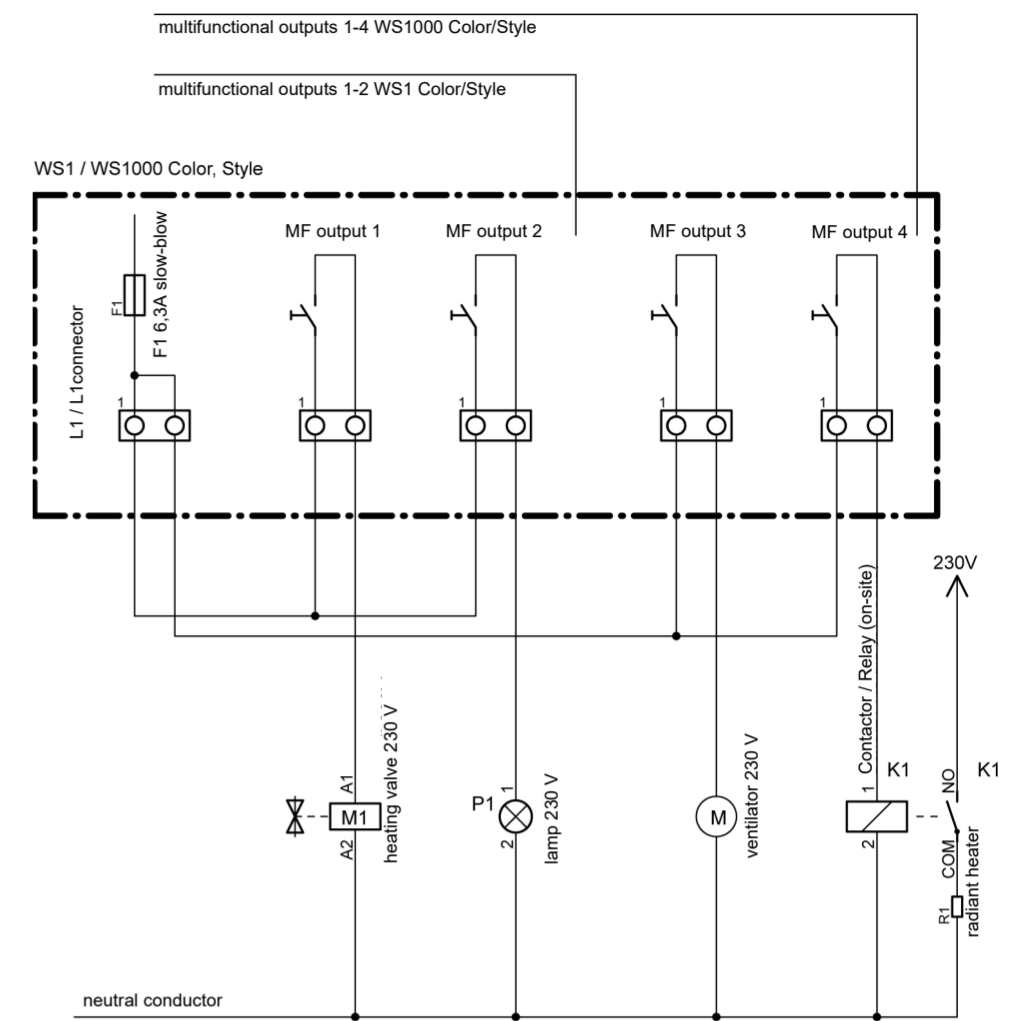


Inputs WS1000:



Connection examples for multifunctional outputs

Connecting 230 V consumers to MF outputs



Connecting low-voltage consumers and potential-free contacts to MF outputs

