

Brief Instruction Mounting of WS1 Color

Item numbers
60145, 60135-60138 (white)
60146, 60139-60142 (alu)



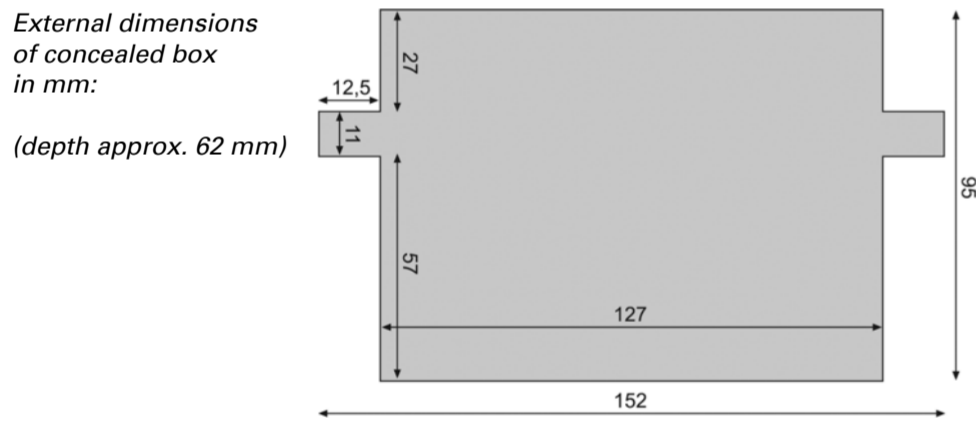
Warning, mains voltage! National legal regulations are to be observed. Installation, inspection, commissioning and troubleshooting of the device must only be carried out by a competent electrician.

Preparing the installation location

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

The device is to be installed flush to the wall surface. When selecting an installation location, please ensure that the measurement results of the integrated temperature/humidity sensor are affected as little as possible by external influences. Possible sources of interference include:

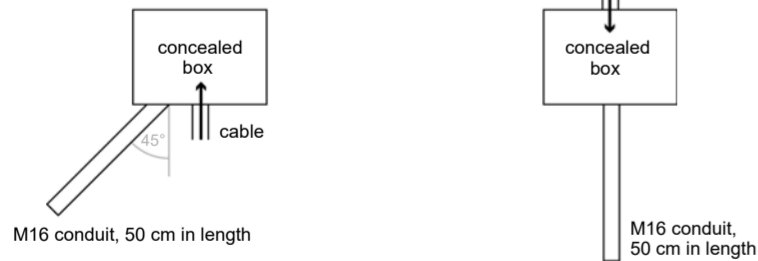
- Direct sunlight
- Drafts from windows and doors
- Draft from ducts which lead from other rooms to the concealed box
- Warming or cooling of the building structure on which the device is mounted, e.g. due to sunlight, heating or cold water pipes
- Connection lines which lead from warmer or colder areas to the device



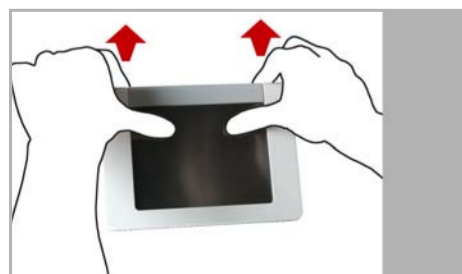
An external antenna can be connected in order to improve wireless communications. During installation, a **conduit 50 cm in length** should be placed beneath the recessed housing, in which the external antenna can be mounted (antenna dimensions approx. 565 x 8 x 5, L x W x H in mm):

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

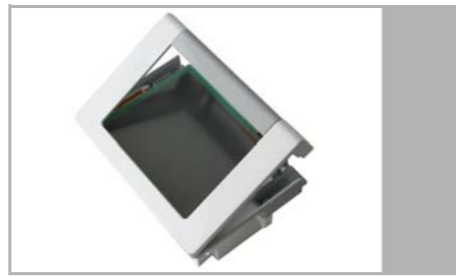
Conduit angled vertically downwards (only for cable access from above!)



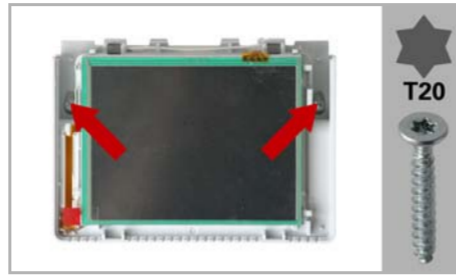
Preparing for installation



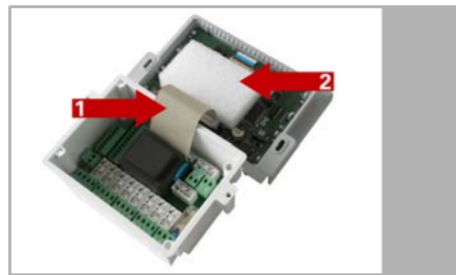
Loosen the frame on the upper corners by pulling it forward. You can press your thumbs on the screen while doing this.



Take the frame off at the top first, then at the bottom.



The lower portion of the housing is mounted on the flush mounting box with 2 screws: loosen the screws.

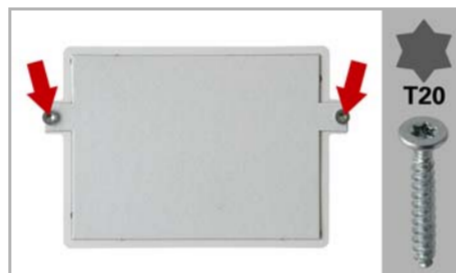


Take off the housing component with the screen board. The screen is connected via a ribbon cable (1) with the board in the flush mounting box. Loosen the plug in order to be able to remove the upper part. Remove the transport lock (2).

Wall-fitting



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



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

Cavity wall fitting

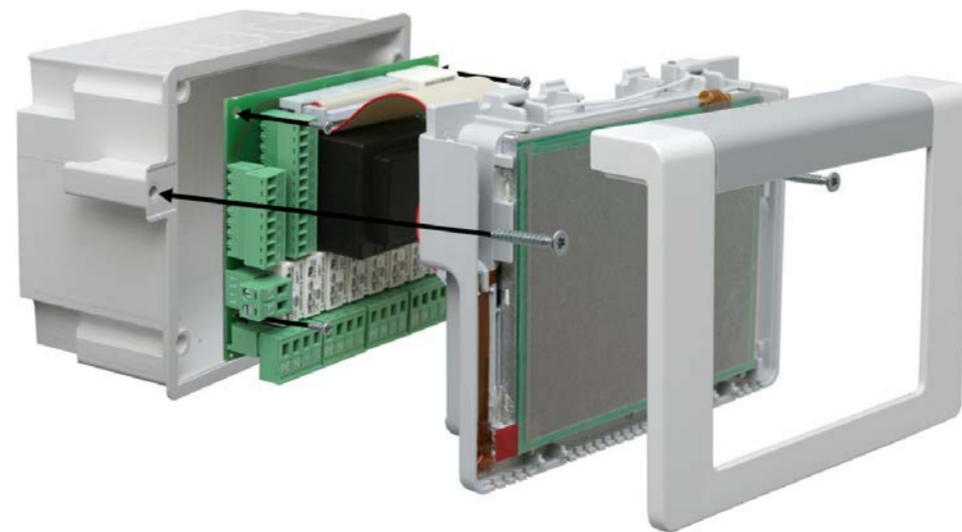


Clamp the concealed box to the wall with the four enclosed screws.

Upon delivery, the pouch containing the assembly screws can be found in the control unit's flush-mounted casing.

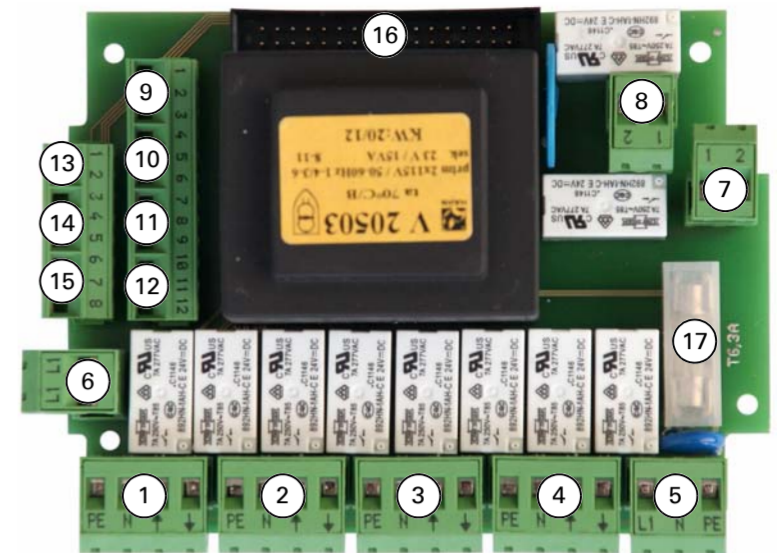
Assembling the control unit with concealed box

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 wiring, connect the ribbon cable to the screen board. Make sure that the transport lock (foam) is removed and also remove the foil protecting the screen (red flap). Screw the lower part of the housing onto the flush mounting box. Set the frame on the lower part of the housing. To this end, the frame is first suspended below and then clapped shut above and snapped in place.

Structure of the connector board WS1 Color

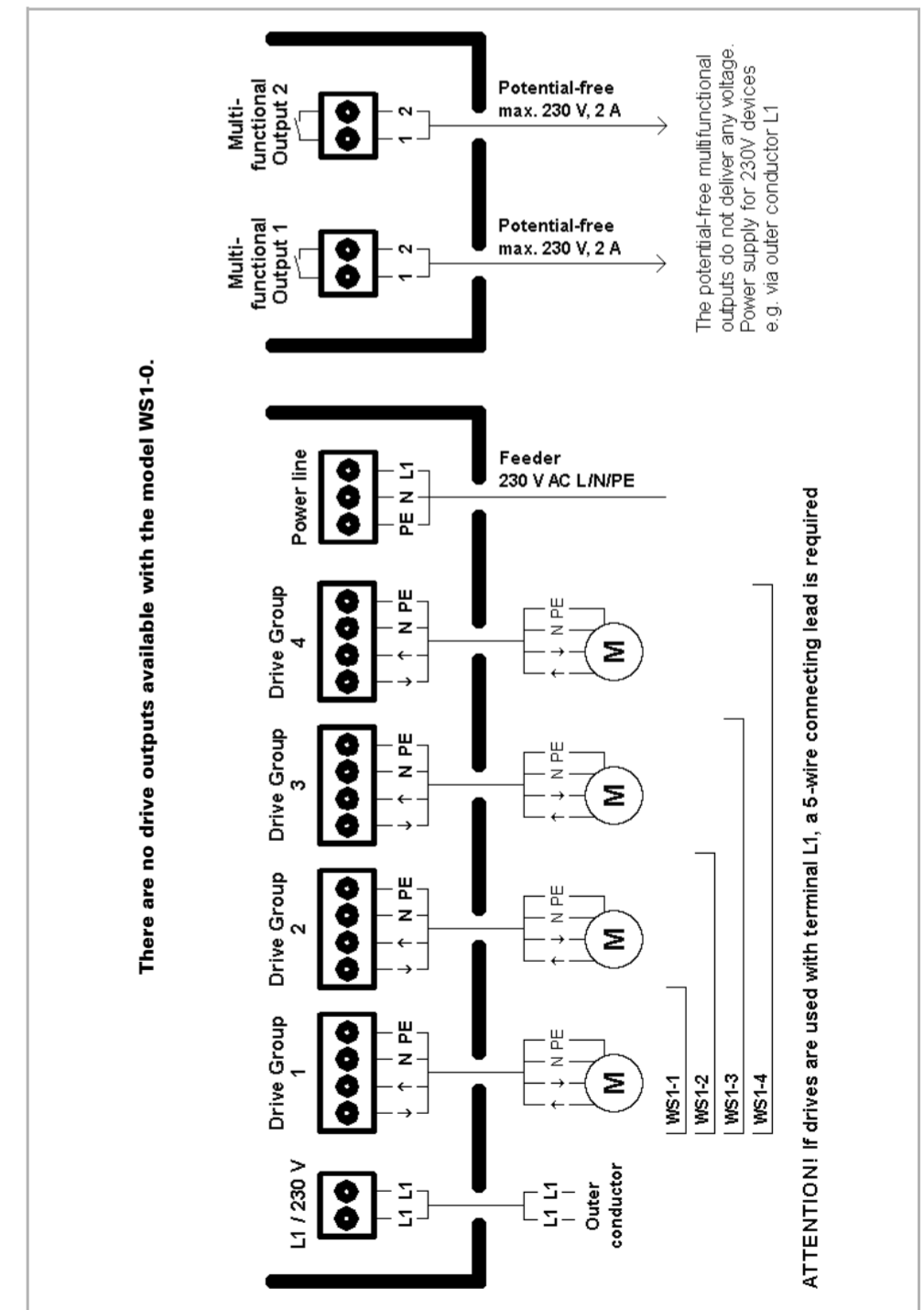


- | | |
|--|--|
| 1 Drive group 1 | 12 Wall button 4
(10: +12V 11: Up 12: Down) |
| 2 Drive group 2 | 13 Weather station (terminals 1-2) |
| 3 Drive group 3 | 14 * Multifunctional input 1
(terminal 3: +12 V 4: GND 5: IN) |
| 4 Drive group 4 | 15 * MF input 2
(6: +12 V 7: GND 8: IN) |
| 5 Mains connection L/N/PE 230 V/50 Hz | 16 Connector for flat-ribbon cable to front board |
| 6 Outer conductor L1 | 17 Microfuse T6,3 A |
| 7 Multifunctional output 1
(potential-free) | |
| 8 MF output 2 (potential-free) | |
| 9 Wall button 1
(terminal 1: +12 V 2: Up 3: Down) | |
| 10 Wall button 2
(4: +12 V 5: Up 6: Down) | |
| 11 Wall button 3
(7: +12 V 8: Up 9: Down) | |

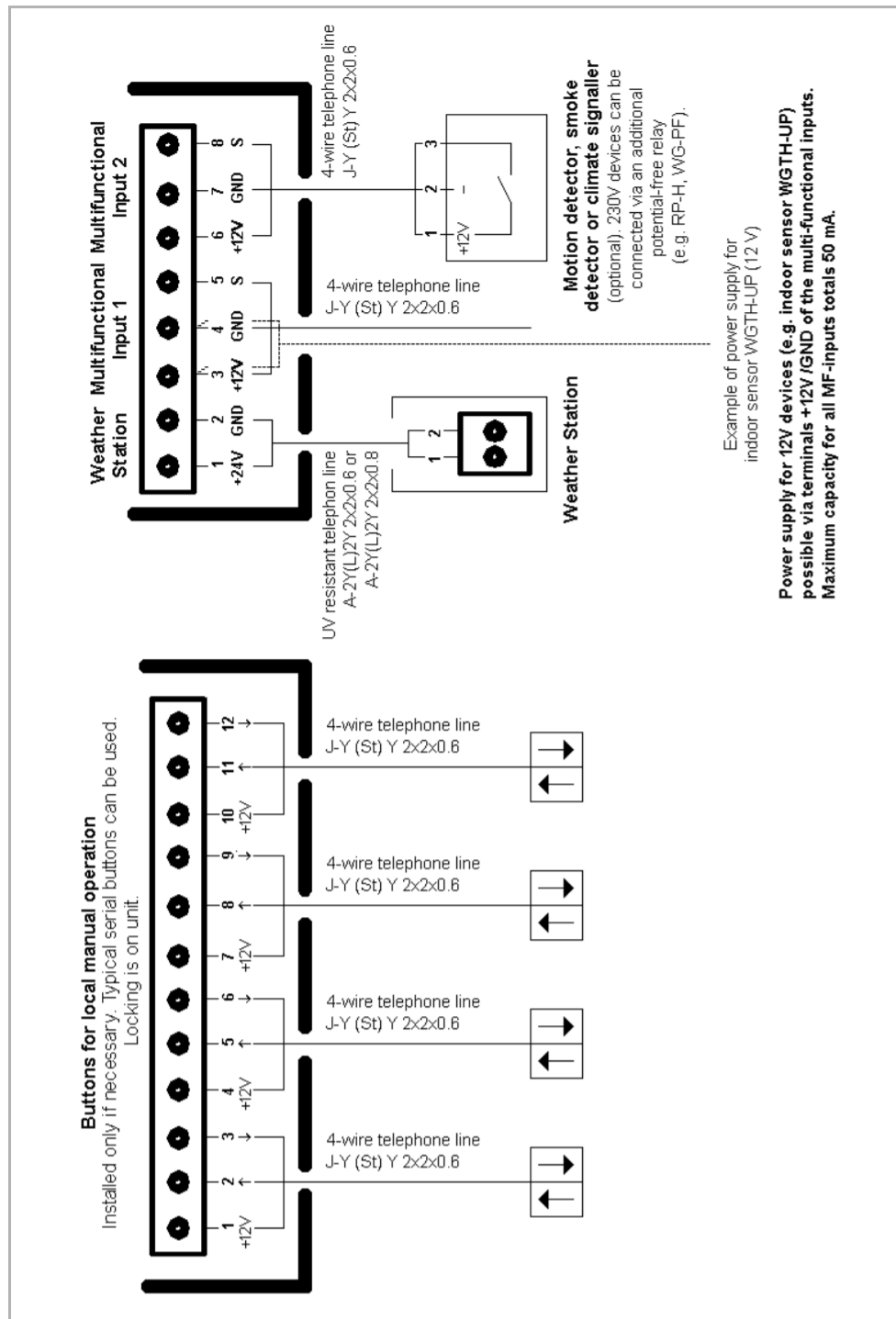
* Supply voltage e. g. indoor sensor possible via MF inputs (No. 14, terminal 3(+), 4(-) and No. 15, terminal 6(+), 7(-)), max. 50 mA altogether.

Connection diagrams

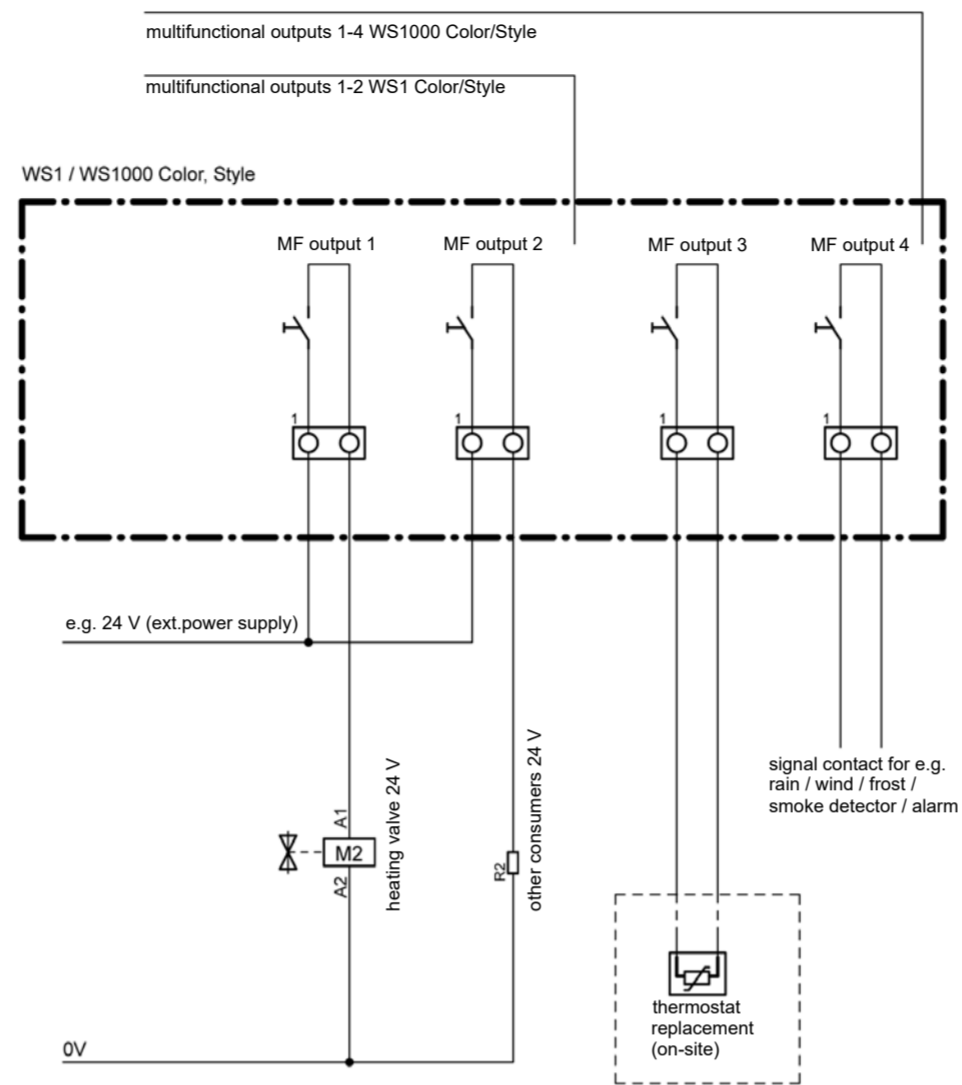
Drive and MF outputs WS1:



Inputs WS1:



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



Connection examples for multifunctional outputs

Connecting 230 V consumers to MF outputs

