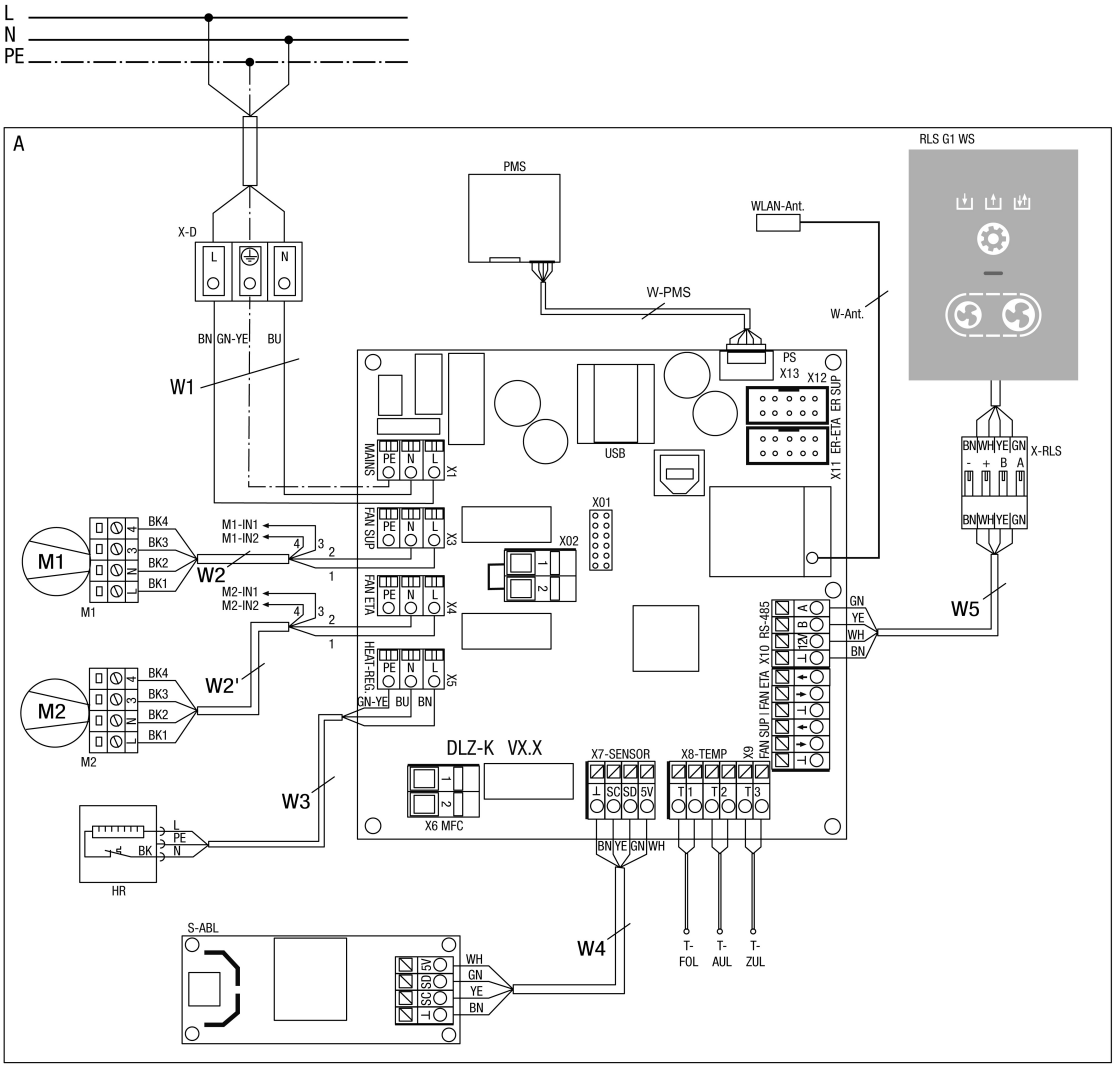
WIRING DIAGRAM

WS 75 Powerbox S

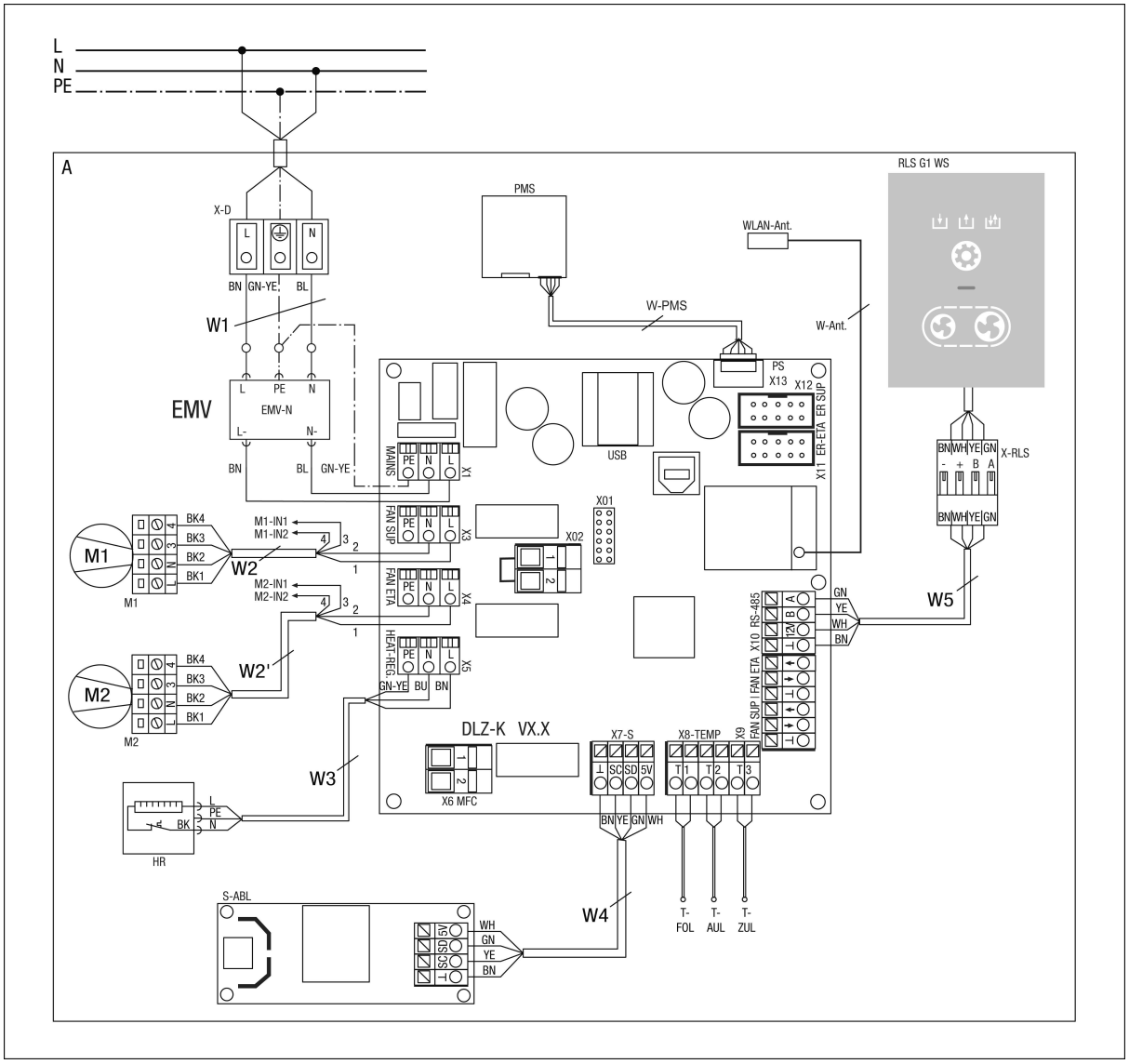


WS 75 Powerbox S

Terminals and cables
A - WS 75 comfort Powerbox ventilation unit
X-D - Connection terminal mains / devices, internal
W1 - 230V AC connecting cable
W2 - 230VAC connecting cable for outside air fan (LIYY 4 x 0.5mm²)
W2 - 230VAC connecting cable for outgoing air fan (LIYY 4 x 0.5mm²)
W3 - Connecting cable for PTC heat register
W4 - Connecting cable for internal sensor module
W5 - Connecting cable for RLS G1 WS control unit
W-Ant - Connecting cable PLC WLAN antenna
W-PMS - Connecting cable fine dust sensor / ready-made
X-RLS - RLS plug connector
Component
M1 - Outside air/supply air fan
M2 - Exhaust air/outgoing air fan
HR - Supply air supplementary heat register, optional
T-FOL - Temperature sensor for NTC outgoing air
T-AUL - Temperature sensor for NTC outside air
T-ZUL - Temperature sensor for NTC supply air
S-ABL - Sensor module for exhaust air
RLS G1 WS - RLS G1 WS control unit
PMS - Exhaust air fine dust sensor, optional
WLAN ant. - WLAN antenna
Further connection options
X11 - ER ETA connection for control cable for outgoing air fan
X11 - ER SUP connection for control cable for outside air fan
X02 - Connection terminal for external safety device, contact potential 12VDC
X6 - MFC - multi-function contact, potential-free relay contact 230VAC/5A // 30VDC/5A
X01 - Slot for optional EnOcean/KNX communication plug-in module
USB - USB service port
M1-IN1 - Status input1 - OUTSIDE/SUPPLY AIR fan - 230VAC, note optocoupler input configuration
M1-IN2 - Status input2 - OUTSIDE/SUPPLY AIR fan - 230VAC, note optocoupler input configuration
M2-IN1 - Status input1 - EXHAUST/OUTGOING AIR fan - 230VAC, note optocoupler input configuration
M2-IN2 - Status input2 - EXHAUST/OUTGOING AIR fan - 230VAC, note optocoupler input configuration

WIRING DIAGRAM

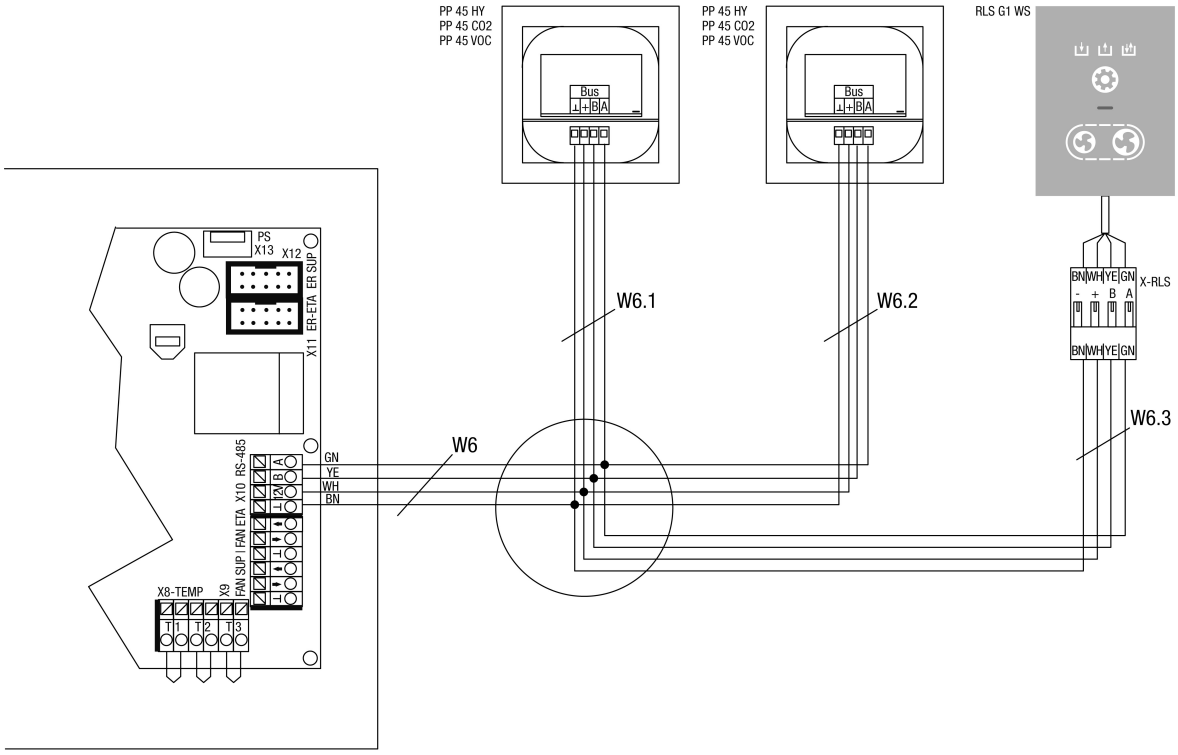
WS 75 Powerbox S



WS 75 Powerbox S

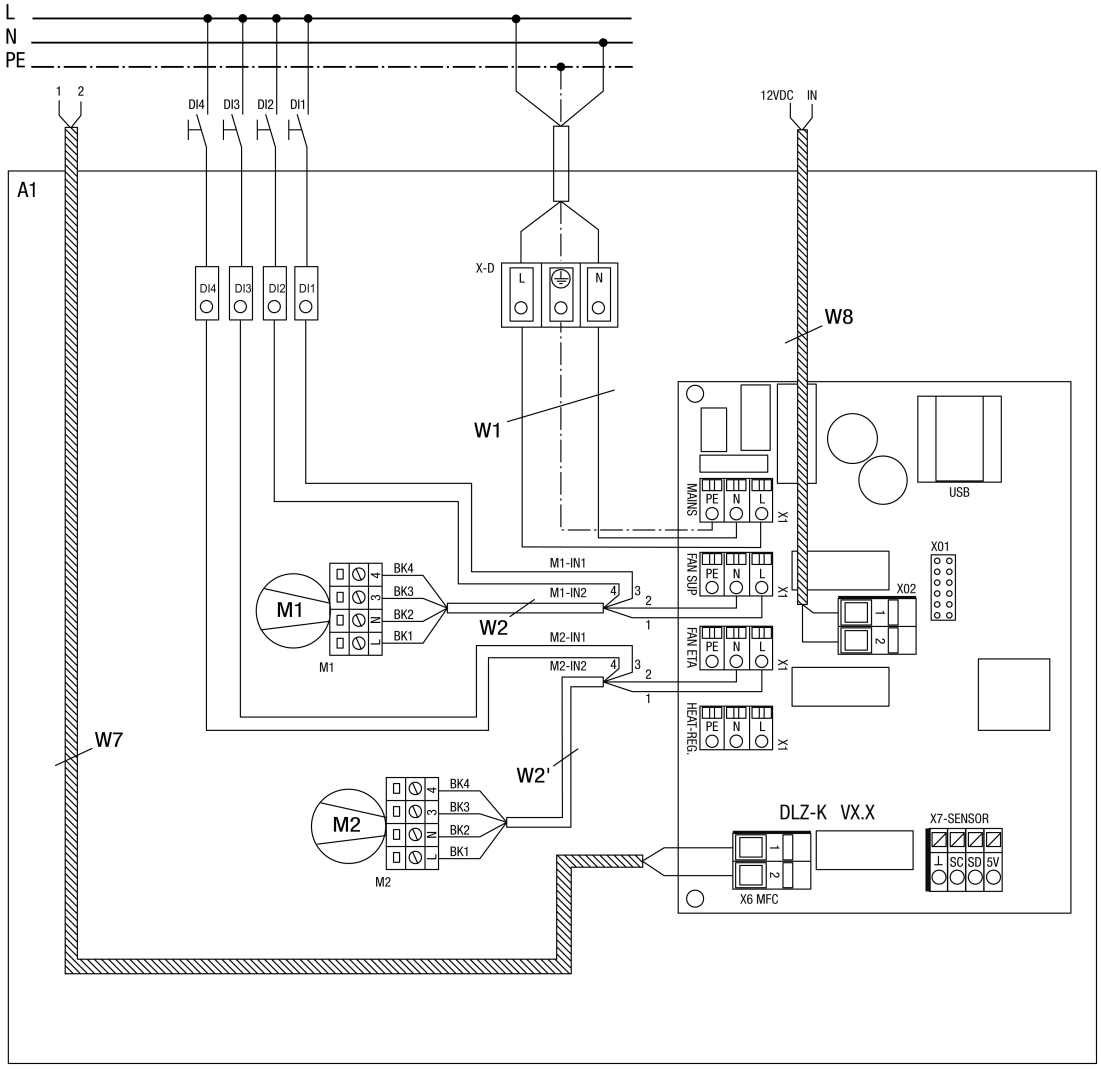
Terminals and cables
A - Ventilation units WS 75 Comfort Powerbox
X-D - Internal connection terminal for mains and units
W1 – 230 V AC connection cable
W2 – 230 V AC connection cable for OSA fan (LIYY 4 x 0.5 mm²)
W2' – 230 V AC connection cable for OGA fan (LIYY 4 x 0.5 mm²)
W3 - Connection cable for PTC heater
W4 – Connection cable for internal sensor module
W5 - Connection cable for RLS G1 WS control panel
W-Ant – Connection cable for PLC-WLAN antenna
W-PMS – Connection cable for particulate matter sensor / pre-assembled
X-RLS - RLS connector
Component
M1 – Outside air/supply air fan
M2 - Exhaust air/outgoing air fan
HR - Reheater for supply air / optional
T-FOL - NTC temperature sensor for outgoing air
T-AUL – NTC temperature sensor for outside air
T-ZUL - NTC temperature sensor for supply air
S-ABL – Sensor module for exhaust air
RLS G1 WS - RLS G1 WS control panel
PMS – Particulate matter sensor exhaust air / optional
WLAN Ant. - WLAN antenna
EMC – Mains filter / optional
EMC-N - EMC mains adapter
S-Sensor
Further connection options
X11 - ER ETA Connection control cable for OGA fan
X11 - ER SUP Connection control cable OSA fan
X02 - Connection terminal for external safety device, contact potential 12 V DC
X6 - MFC - Multifunction contact, dry relay contact 230VAC/5A // 30VDC/5A
X01 - Slot for optional EnOcean/KNX communication plug-in module
USB – USB Service interface
M1-IN1 – Status input 1 – Fan OSA/SA – 230 VAC, note optocoupler input configuration
M1-IN2 – Status input 2 – Fan OSA/SA – 230 VAC, note optocoupler input configuration
M2-IN1 – Status input 1 – EA/OGA fan – 230 VAC; note optocoupler input configuration
M2-IN2 – Status input 2 – Fan ABL/OGA – 230 VAC; note optocoupler input configuration

WS 75 Powerbox S



W6 - Connecting cable for external component. Recommended cable type LIYCY 4x0.34mm². If the control unit is connected outside the unit, the cable shield must be connected to the electronics sheet.
W6.1 - Connecting cable for external Sensor1. Recommended cable type LIYCY 4x0.34mm². The total length of cable between the control and sensor must not exceed 25 metres.
W6.2 - Connecting cable for external Sensor2. Recommended cable type LIYCY 4x0.34mm². The total length of cable between the control and sensor must not exceed 25 metres.
W6.3 - Connecting cable for external control unit RLS G1 WS. Recommended cable type LIYCY 4x0.34mm². The total length of cable between the control and sensor must not exceed 25 metres.

WS 75 Powerbox S



WS 75 Powerbox S

A1 - PB WS 75 ventilation units, comfort
W1 - 230V AC connecting cable
W2 - 230VAC connecting cable for outside air fan (LIYY 4 x 0.5mm²)
W2 - 230VAC connecting cable for outgoing air fan (LIYY 4 x 0.5mm²)
DI1 - Digital input1 / Status input1 OUTSIDE/SUPPLY AIR fan Select contact type depending on function, observe configuration of digital inputs
DI2 - Digital input2 / Status input2 OUTSIDE/SUPPLY AIR fan Select contact type depending on function, observe configuration of digital inputs
DI3 - Digital input3 / Status input1 EXHAUST/OUTGOING AIR fan Select contact type depending on function, observe configuration of digital inputs
DI4 - Digital input4 / Status input2 EXHAUST/OUTGOING AIR fan Select contact type depending on function, observe configuration of digital inputs
W7 - Connection cable multifunctional contact MFC, potential-free signalling and function relay contact, max. 230VAC/5A // 30VDC/5A. Note configuration
W8 - Connecting cable for external unit release (optional) or safety device. Contact potential 12VDC, external contact type to be used: NC
M1-IN1 - Status input1 - OUTSIDE/SUPPLY AIR fan - 230VAC, note optocoupler input configuration
M1-IN2 - Status input2 - EXTERNAL/SUPPLY AIR fan - 230VAC, note optocoupler input configuration
M2-IN1 - Status input1 - EXHAUST/OUTGOING AIR fan - 230VAC, note optocoupler input configuration
M2-IN2 - Status input2 - EXHAUST/OUTGOING AIR fan - 230VAC, note optocoupler input configuration