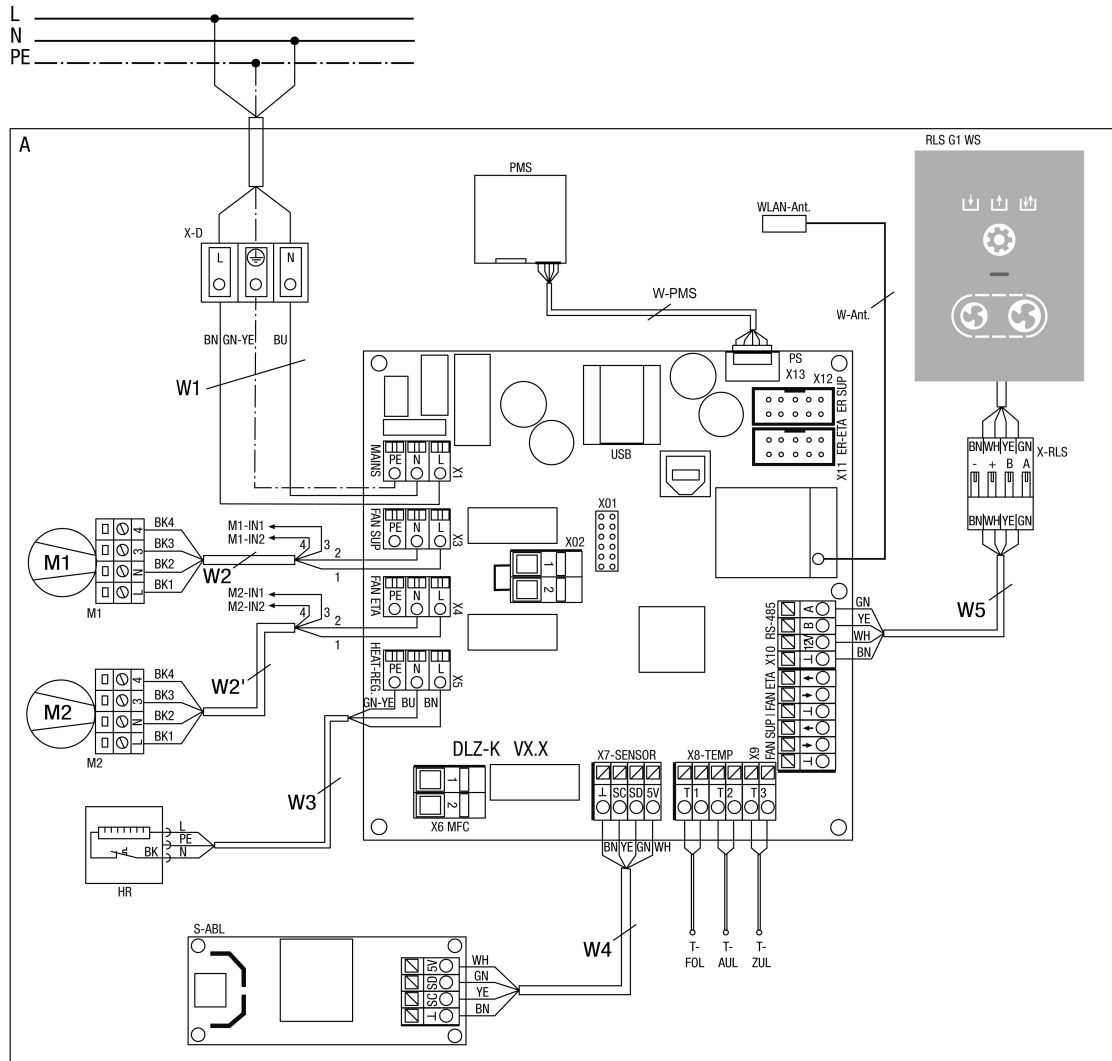


# WIRING DIAGRAM

## 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 0.5mm<sup>2</sup>)  
W2 - 230VAC connecting cable for outgoing air fan (LIYY 4 x 0.5mm<sup>2</sup>)  
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

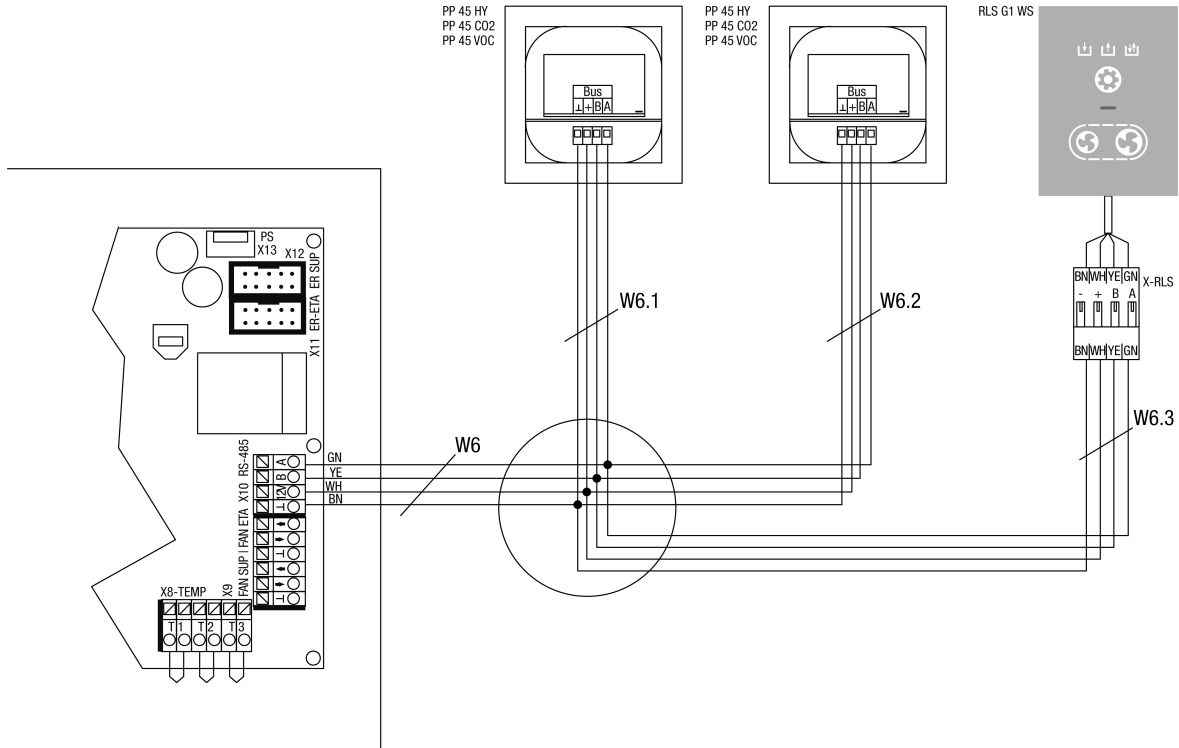
### Further connection options

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

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# WIRING DIAGRAM

## WS 75 Powerbox S



W6 - Connecting cable for external component. Recommended cable type LIYCY 4x0.34mm<sup>2</sup>. If the control unit is connected outside the unit, the cable shield must be connected to the electronics sheet.

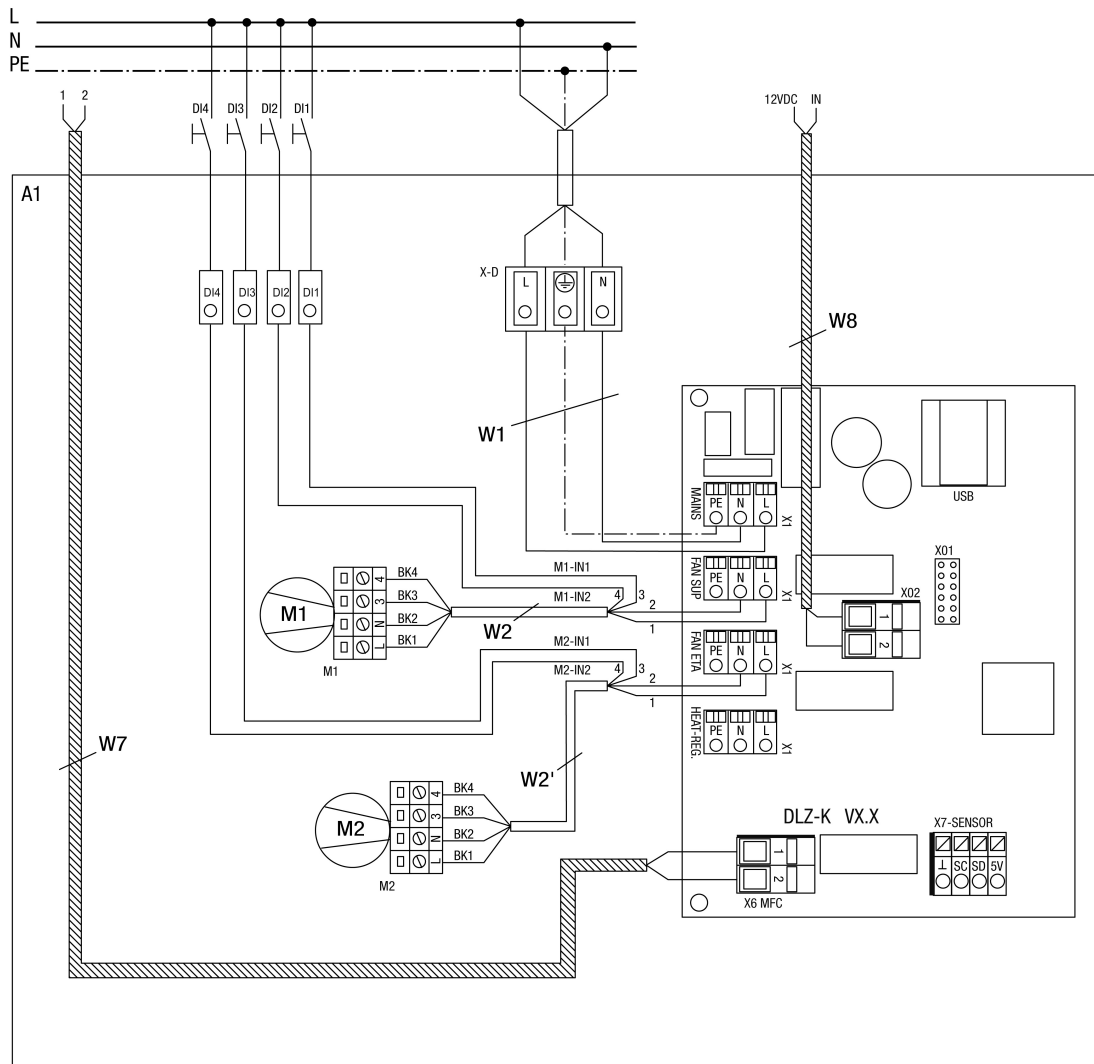
W6.1 - Connecting cable for external Sensor1. Recommended cable type LIYCY 4x0.34mm<sup>2</sup>. The total length of cable between the control and sensor must not exceed 25 metres.

W6.2 - Connecting cable for external Sensor2. Recommended cable type LIYCY 4x0.34mm<sup>2</sup>. 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 4x0.34mm<sup>2</sup>. The total length of cable between the control and sensor must not exceed 25 metres.

# WIRING DIAGRAM

## 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 0.5mm<sup>2</sup>)

W2 - 230VAC connecting cable for outgoing air fan (LIYY 4 x 0.5mm<sup>2</sup>)

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

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