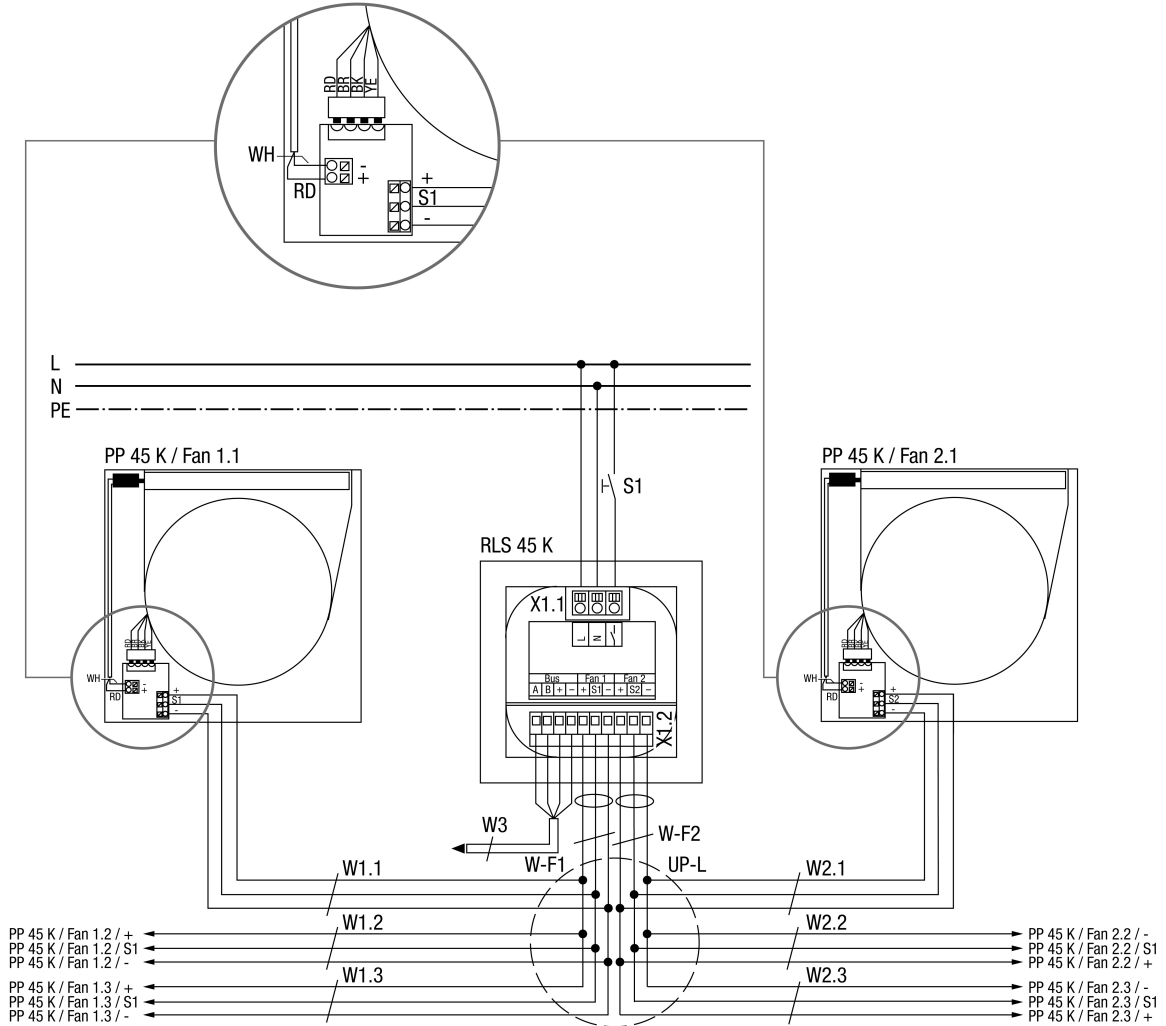


# WIRING DIAGRAM

## RLS 45 K



# WIRING DIAGRAM



## RLS 45 K

RLS 45 K - PushPull 45 comfort room air control

PP 45 K - PushPull 45 comfort fan unit

Fan 1.1 - fan unit 1, unit pair 1

Fan 2.1 - fan unit 2, unit pair 1

Fan 1.2 - fan unit 1, unit pair 2

Fan 2.2 - fan unit 2, unit pair 2

Fan 1.3 - fan unit 1, unit pair 3

Fan 2.3 - fan unit 2, unit pair 3

S1 - Button/switch for additional function (sleep, intensive, disbalance, safety function)

UP-L - Recessed-mounted distributor connection for fan units, connection of all fan units in star shape to distributor

W-F1 - Fan 1 control cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. length to distributor 4m.

W-F2 - Fan 2 control cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. length to distributor 4m.

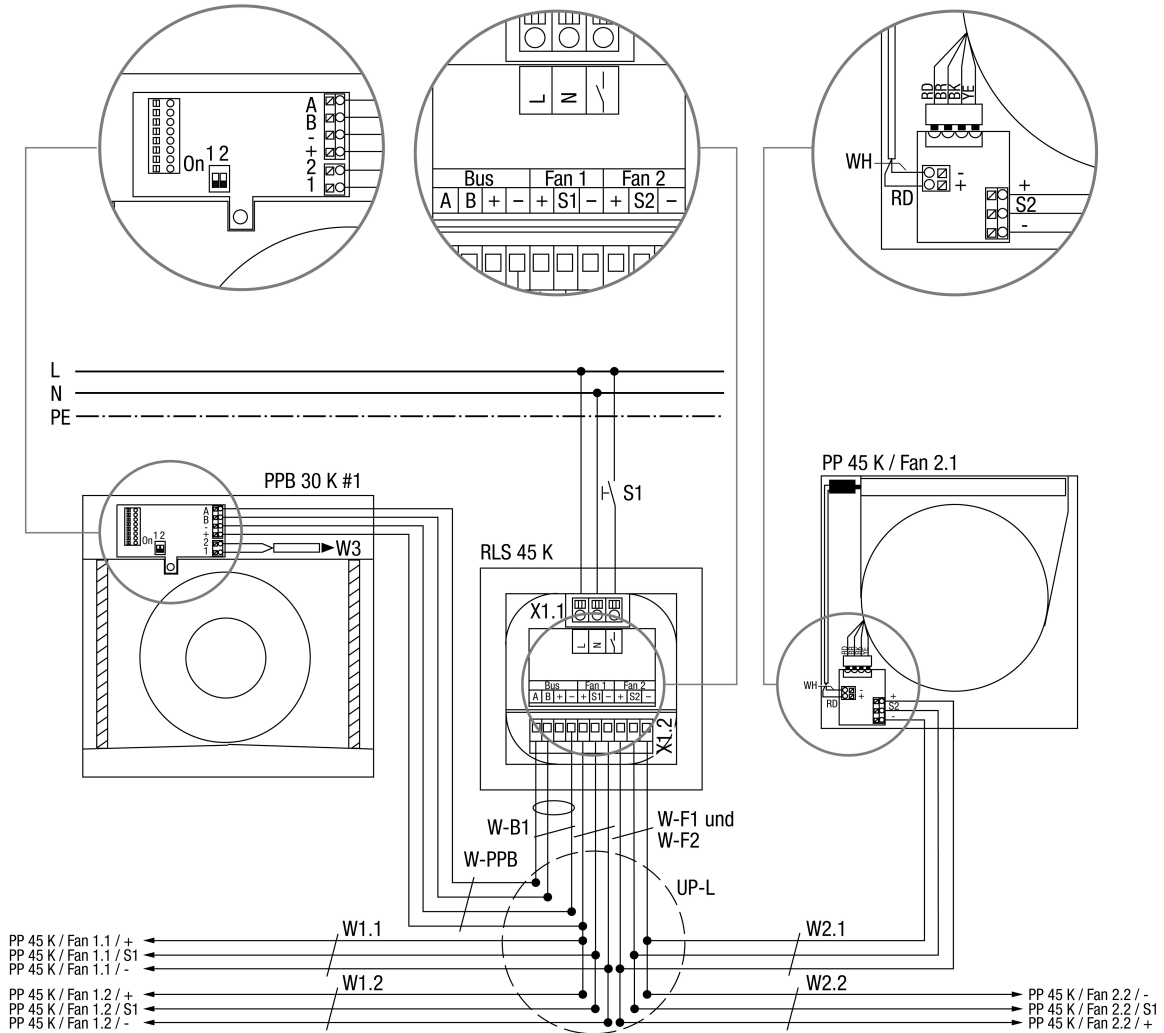
W1.X - Fan unit control cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. cable length from UP-L distributor to PP 45 ventilation unit = 25m.

W2.X - Fan unit control cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. cable length from UP-L distributor to PP 45 ventilation unit = 25m.

W3 - Bus (RS-485) connection cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. cable length to the sensors, RLS, LT and EnOcean module approx. 100m. Alternatively, this connection can also be used as a ModBus RTU interface.

# WIRING DIAGRAM

## RLS 45 K



# RLS 45 K

RLS 45 K - PushPull 45 Comfort room air control

PP 45 K - PushPull 45 Comfort fan unit

PPB 30 K - PushPull Balanced 30 Comfort fan unit

Fan 1.1 - fan unit 1, unit pair 1

Fan 2.1 - fan unit 2, unit pair 1

Fan 1.2 - fan unit 1, unit pair 2

Fan 2.2 - fan unit 2, unit pair 2

S1 - Button/switch for additional function (sleep, intensive, disbalance, safety function)

UP-L - Recessed-mounted distributor connection, connection of all fan units in star shape to distributor

W-F1 - Fan 1 control cable, recommended control cable J-Y(ST)Y 2x2x0.8mm. Max. length to distributor 4m.

W-F2 - Fan 2 control cable, recommended control cable J-Y(ST)Y 2x2x0.8mm. Max. length to distributor 4m.

W-B1 - Bus PPB control cable, recommended control cable J-Y(ST)Y 2x2x0.8mm. Max. length to distributor 4m.

W1.X - Fan unit control cable, recommended control cable J-Y(ST)Y 2x2x0.8mm. Max. cable length from UP-L distributor to PP 45 ventilation unit = 25m.

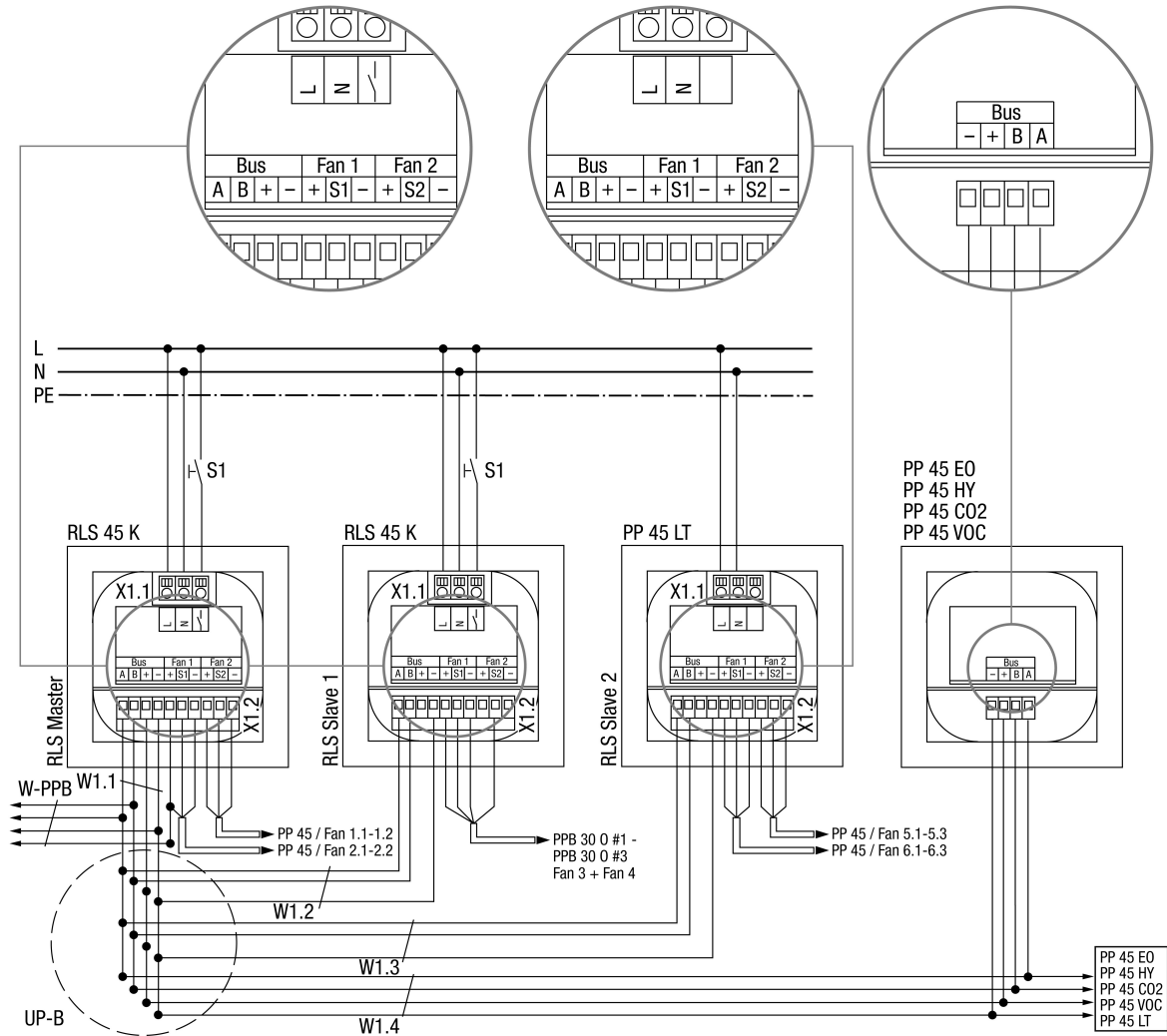
W2.X - Fan unit control cable, recommended control cable J-Y(ST)Y 2x2x0.8mm. Max. cable length from UP-L distributor to PP 45 ventilation unit = 25m.

W-PPB - BBP 30 (bus) control cable, recommended control cable J-Y(ST)Y 2x2x0.8mm. Max. cable length from UP-L distributor to PP 45 ventilation unit = 25m.

W3 - Connecting cable switch/pushbutton for activation of special functions (exhaust air mode, intensive ventilation), recommended control cable LiYY 2\*0.5 mm<sup>2</sup>. Max. cable length 25 metres.

# WIRING DIAGRAM

## RLS 45 K



RLS 45 K - PP 45 Comfort room air control

PP 45 LT - PP 45 power unit

PP 45 EO - PP 45 EnOcean radio module

PP 45 HY - PP 45 humidity sensor for recessed mounting

PP 45 CO2 - PP 45 CO2 sensor for recessed mounting

PP 45 VOC - PP 45 VOC sensor for recessed mounting

Fan 1.1-1.3 - Fan unit 1 and 3 on RLS master

Fan 2.1-2.3 - Fan unit 2 and 4 on RLS master

W-PPB - Fan unit 5 (BBP 30 K) on RLS master connecting cable for bus (RS-485), recommended control cable J-Y(ST)Y 2x2x0.8mm<sup>2</sup>. Max. cable length to the PPB 30 K, 25 metres from the star point

Fan 3 + 4 G1-3 - Fan unit 6,7,8 on RLS slave 1

Fan 5.1-5.3 - Fan unit 9,11,13 on RLS slave 2

Fan 6.1-6.3 - Fan unit 10,12,14 on RLS slave 2

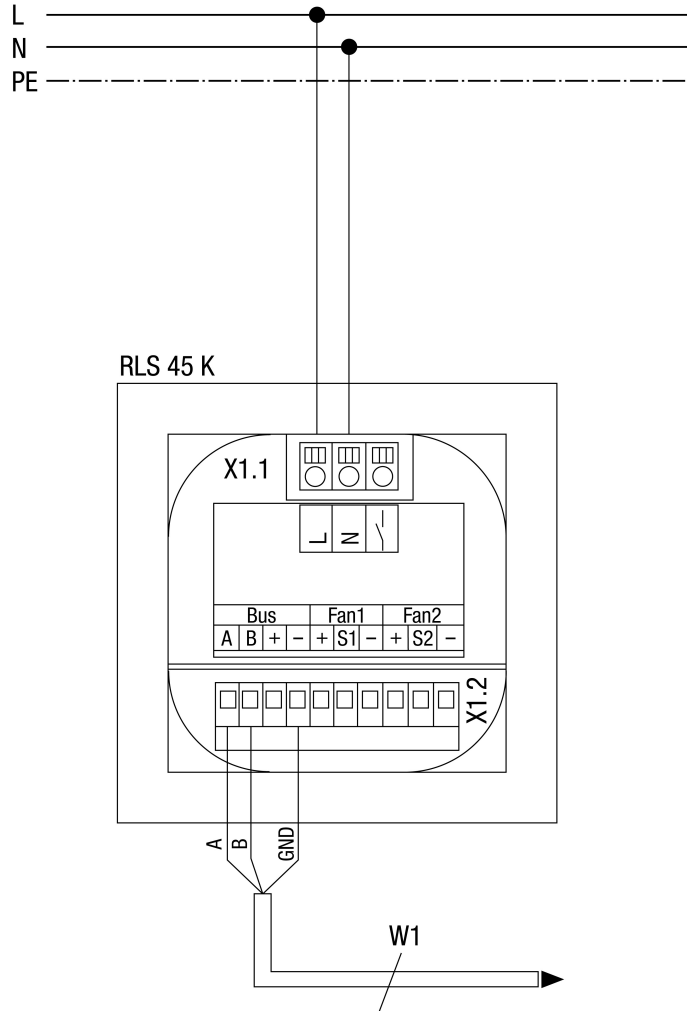
S1 - Button/switch for additional function (sleep, intensive, disbalance, safety function)

UP-B - Recessed-mounted distributor bus, connection of RLS, LT, EO and sensors using RS-485 bus interface

W1.X - Bus (RS-485) connection cable, recommended control cable J-Y(ST)Y 2x2x0.8mm. Max. cable length to the sensors, RLS, LTs and EnOcean module approx. 100 m. Alternatively, this connection can also be used as a ModBus RTU interface.

# WIRING DIAGRAM

## RLS 45 K



RLS 45 K - 45 comfort room air control / ModBus interface also available for object variant.

X1.1 - terminal mains connection

X1.2 - connection terminal bus/fan

W1 - GLT (ModBus) connection cable, recommended control cable J-Y (ST) Y 2x2x0.8mm. Max. cable length to gateway approx. 100m. Set parameters and undertake addressing by means of service mode or IBS\* (commissioning software)

\*IBS only in conjunction with the RLS 45 K

Interface info:

ModBus mode: RTU

Baud rate: 9600/19200

Data bits 8

Parity: Even

Stop bits 1

Address: 10 (basic setting)