

ADAPT™ Extract

Installation - Commissioning - Maintenance

20100816

Installation

1. The commissioning box can be suspended from a ceiling and connected to a duct system. Use hanger system 1 or 2.
2. Press the ADAPT Extract air diffuser into the outlet of the commissioning box. Take into consideration in which direction the sensor module should point. The module should be oriented according to the shape of the room and agree with the discharge direction(s) of the air diffuser. Then secure the air diffuser by means of screws or pop rivets. Readjust the hanger rods of the commissioning box if necessary, so that the air diffuser is positioned firmly against the false ceiling.
3. Connect the air diffuser connector in the upper section of the air diffuser and attach the safety cord.

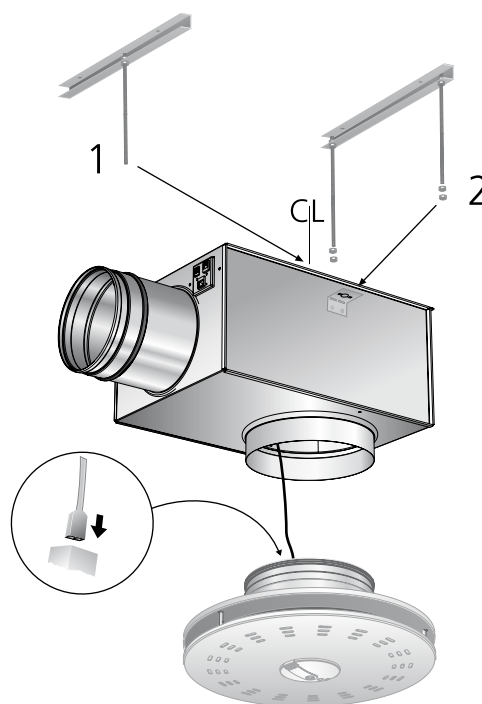


Table. Presence detector's detection area

H	A1	B1	A2	B2
2.2	4.5	4.0	2.9	2.5
2.4	4.8	4.3	3.3	2.9
2.6	5.3	4.7	3.7	3.2
2.8	5.7	5.0	4.1	3.6
3.0	6.1	5.4	4.5	4.0

Dimensions specified in meters

Figure 2. ADAPT Extract, installation.

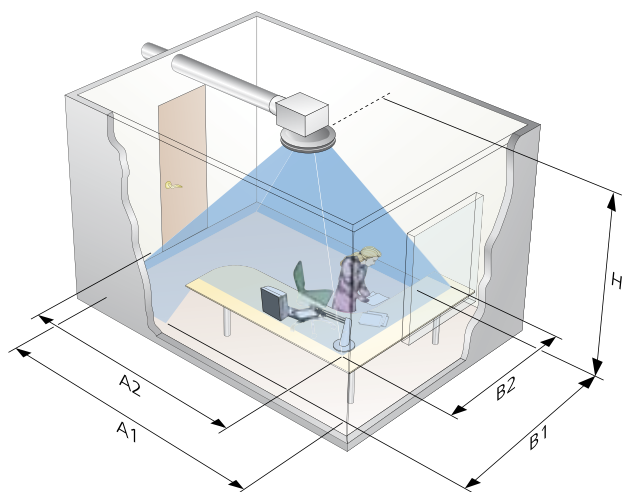


Figure 1. Presence detector's detection area.

Electrical connections

All the electrical connections are wired to the CONNECT Adapt junction box, which belongs to the Master air diffuser. The slave air diffuser is connected by means of the LINK Adapt (RJ45) cable (included in the supply) to its respective slave contacts. If more than 2 slave air diffusers are installed, a SPLIT Link should be used to further connect to the last slave air diffuser. See Figure 4. The maximal permissible length of the LINK Adapt from the connection box to the last air diffuser is 15 m if the SPLIT Link is used. If ADAPT is to be connected up to Modbus communication, this should be done by means of the LINK Modbus (RJ12) cable. All cables and contacts are different so that they will not be confused or incorrectly connected.

Electrical data

ADAPT is supplied with power via the junction box. See the wiring diagram. It is important that cables with appropriate cross-sectional area, transformers of correct size and power supply cables of correct length are selected according to the specifications in the sizing documents available at www.swegon.com.

Supply voltage	24 V AC $\pm 10\%$
Max. power consumption	3 VA
Cable rating	0,6 A
Ambient temperature:	0 °C - +50 °C

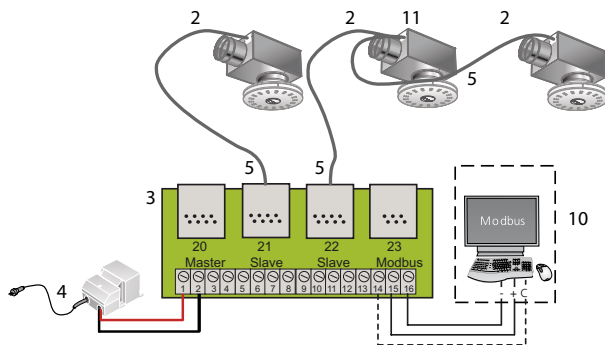


Figure 3. Connection of slave air diffusers and accessories. For the ADAPT Ea, one slave air diffuser is normally connected to the Junction box of the Master air diffuser.

1. ADAPT Master air diffuser (not shown in picture)
2. ADAPT Ea
3. CONNECT Adapt, wiring terminal for the Master air diffuser
4. 230-24 V AC Transformer
5. 5 m long LINK Adapt (RJ45 cable)
10. Connection to main control system (Modbus RTU)
11. SPLIT Link

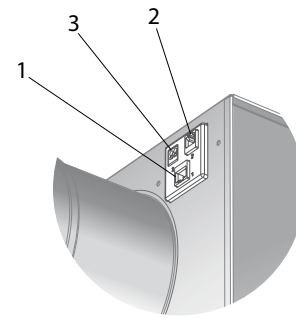


Figure 4. Air diffuser connections

1. Connection for LINK Adapt cable (RJ45)
2. Connection for the LINK Modbus cable (RJ12). Only the master air diffuser should be connected.
3. Direct 24 V connection if a junction box is not used and the air diffuser will be completely "stand alone".

Commissioning

All the ADAPT Air terminals are supplied preset to the so-called commissioning mode, which means that the air diffuser is controlled by force to the max. airflow setting. More information about the commissioning process itself can be read in the Project Manual for the Wise system and in the instructions for TUNE Adapt. When the ADAPT air diffuser is in commissioning mode, the light-emitting diode shines orange.

- Steady green LED: Normal operation, the air diffuser is operating normally.
- Flashing green LED: The air diffuser has just been energised and calibration is in progress.
- Steady red LED: The voltage (24V AC) is too low
- Flashing red LED: Internal sensor error
- Steady orange LED: The commissioning mode, max. airflow
- Flashing orange LED: Other commissioning modes and all the forced control situations of the feed-back control system.

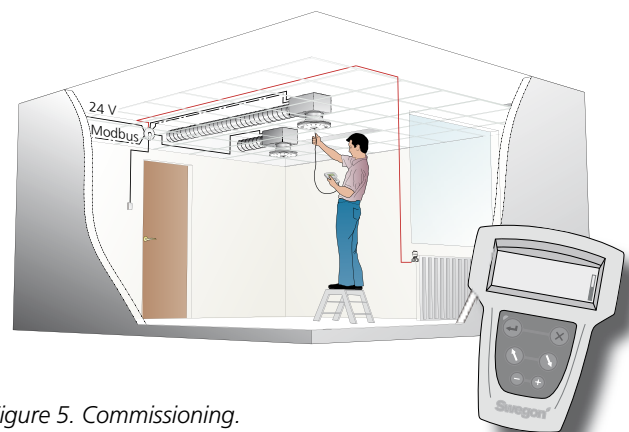


Figure 5. Commissioning.

Maintenance

The exterior surface of the ADAPT air diffusers can be cleaned whenever necessary using lukewarm water with dishwashing detergent added. Normally the best method of cleaning is vacuuming with a brush nozzle.

The duct system is accessible through the air diffuser and the commissioning box.