

Instructions for damper actuators, SILVER C PX plate heat exchanger

1. General

The modulated damper actuators are used for variably opening and closing the damper of the SILVER C PX plate heat exchanger via 0-10 V control signal.

The damper can be interlinked (1 damper actuator) or in sections (3 damper actuators).

2. Technical data

Type of damper actuator:

Interlinked damper (1 damper actuator)

<i>SILVER C PX</i>	<i>Damper actuator</i>
Sizes 04-12	1 x GDB161.1E
Sizes 14-30	1 x GLB161.1E

Damper in sections (3 damper actuators)

<i>SILVER C PX</i>	<i>Damper actuator</i>
Sizes 04-30:	3 x GDB161.1E

Damper actuator, GDB161.1E

Torque	5 Nm
Actuating time 90°	150 seconds
Frequency	50/60 Hz
Voltage	24 V AC
Power consumption	
in operation	3 VA
idle	1 W
Temperature, in operation	-32 to +55°C
Temperature, storage	-32 to +70°C
Humidity, ambient	< 95% r.h.
Run cable	0.75 mm², 2.5 m long
Enclosure class	IP 54
Conformity, CE	2004/108/EEC IEC/EN 61000-6-3 IEC/EN 61000-6-2

Damper actuator, GDB161.1E

Torque	10 Nm
Actuating time 90°	150 seconds
Frequency	50/60 Hz
Voltage	24 V AC
Power consumption	
in operation	3 VA
idle	1 W
Temperature, in operation	-32 to +55°C
Temperature, storage	-32 to +70°C
Humidity, ambient	< 95% r.h.
Run cable	0.75 mm², 2.5 m long
Enclosure class	IP 54
Conformity, CE	2004/108/EEC IEC/EN 61000-6-3 IEC/EN 61000-6-2



3. Electrical connections

The electrical connections are to be wired by a qualified electrician in accordance with local electrical safety regulations.

The damper and damper actuator are located on the outdoor air side of the plate heat exchanger. For access, open the inspection door of the air handling unit.

The damper actuator's cables are run to the centre section of the air handling unit. For access, dismantle the measurement tappings (4 pcs.) and back off the bolts that secure the centre panel of the air handling unit; see illustration.

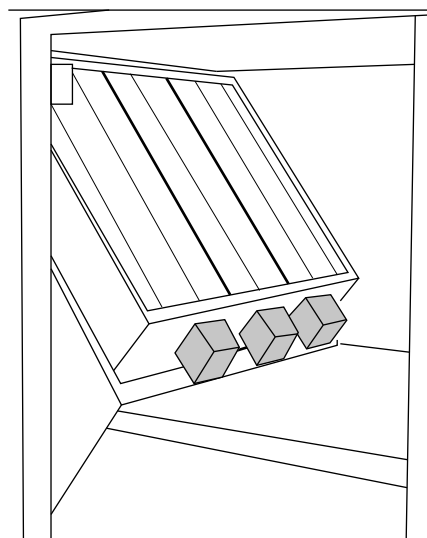
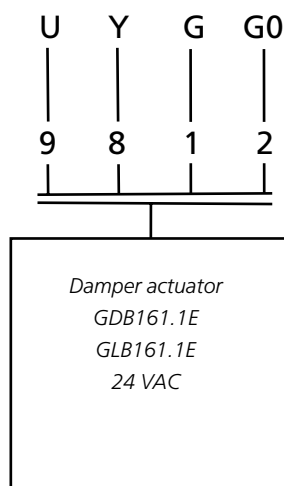
The cable grommets are located on the centre section of the air handling unit.

If a sectional damper is fitted (three damper actuators) the respective cabling is marked as illustrated below:

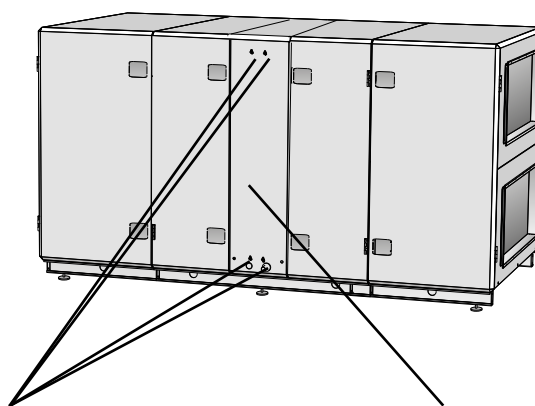
Sectional damper 1 (farthest out) = 1A

Bypass damper (centre) = 2A

Sectional damper 2 (farthest in) = 3A



The damper and damper actuator are located on the outdoor air side of the plate heat exchanger. For access, open the inspection door of the air handling unit.



Dismantle the measurement tappings (4 pcs.).

Back off the bolts that secure the centre section of the air handling unit.