SIEMENS

Quick Start Guide
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Open Air Intelligent VAV

DXR1-E10-112/US
DXR1-E10-113/US

Pre-installation steps

1. Download the Climatix Mobile App to be used for setup and commissioning.

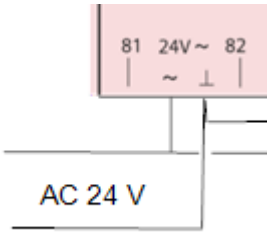
iOS:

Android:

2. Ensure you have a Siemens WLAN stick for connectivity from the controller to the Climatix Mobile App,

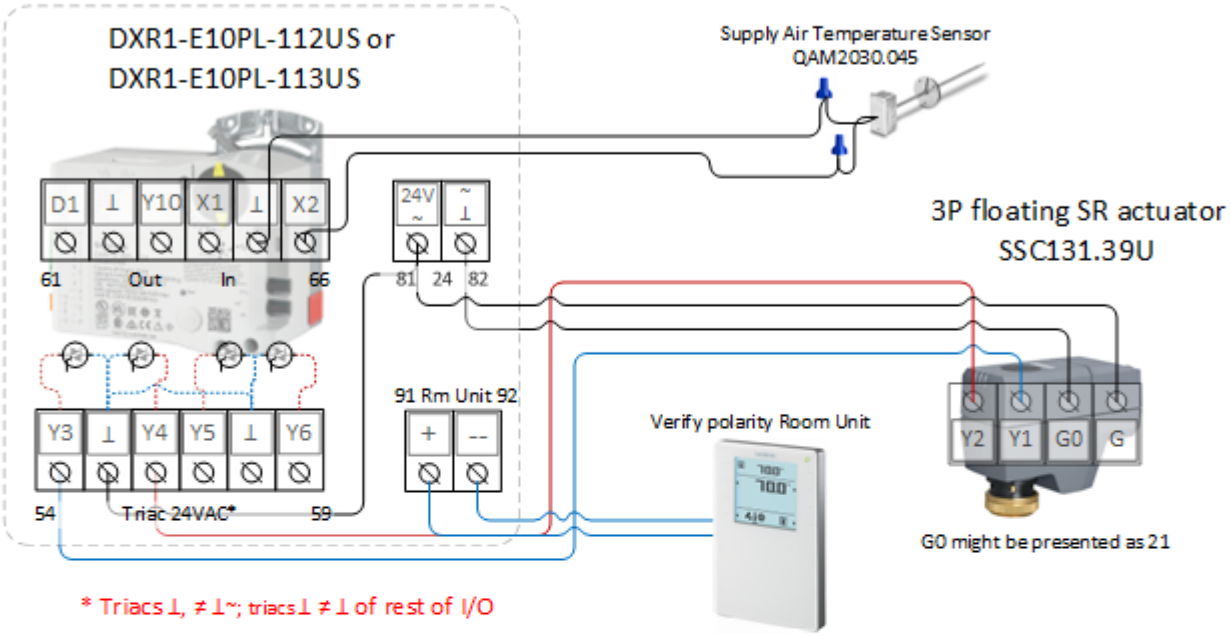
Document ID	Title	Description
A6V13503270	*OpenAir Intelligent VAV Actuator* Data Sheet	Functions, use, technical data, terminal concept, and dimensions
A5W00206529A	*DXR1.E10PL-112_113/US OpenAir™ Intelligent VAV Actuator BACnet IP* Installation Instructions	Mounting and wiring the Open Air Intelligent VAV
A6V13322627	*OpenAir Intelligent VAV Actuator BACnet IP with Built-in Differential Pressure Sensor* Submittal Sheet	Product Details for submission with job and bid package
A6V13460887 (VAV) A6V13406879 (FPB)	*OpenAir Intelligent VAV Actuator BACnet/IP* Application Sheets	Detailed plant diagram, functional diagrams, and connection diagrams
A6V13670562	*OpenAir Intelligent VAV Actuator Variable Air Volume & Fan Powered Box* Start-up Manual	Overview of Climatix App configurations

Power supply

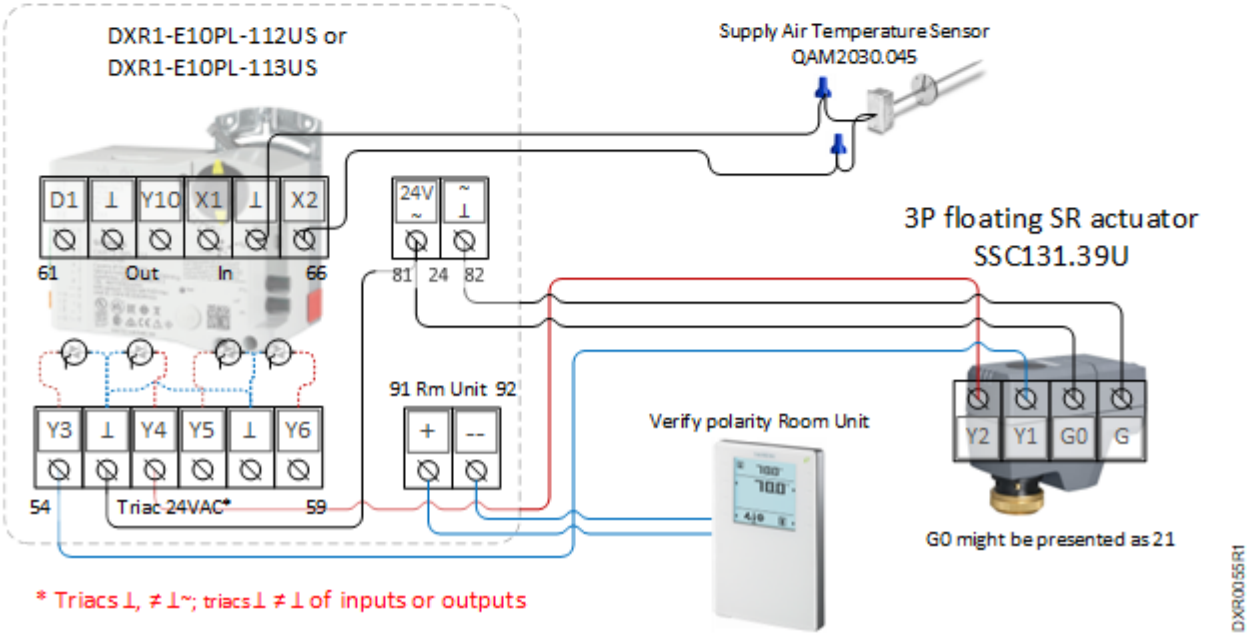
	

Wiring diagram for 3PF SR actuator on Siemens DXR1-E10PL-112US and/or DXR1-E10PL-113 US

Switching Hot:



Switching neutral:



DXR1.E10PL-112/US Intelligent Vav Actuator

Application configuration

	Equipment	Channel/Signal	Settings example
On-board output	Supply air VAV position (integrated actuator)	Y1, Y2; 3-position	Y1, Y2; 3-position
On-board output	Heating Coil	Y5, Y6 3 -position Y3, Y4 3-position Y10 0-10V	Y5, Y6; 3-position
On-board input	Supply air VAV differential air pressure (integrated sensor)	P1	P1
KNX PL-Link devices	Room operator unit device 1 (R1)	QMX3.P34 QMX3.P74	QMX3.P74
	Sensor device 1 (R1)	QMX3.P30 QMX3.P70	
HVAC	Supply air VAV	Cooling airflow setpoint, Max/Min Heating airflow setpoints, Max/Min Ventilation flow setpoints, Max Ventilation flow min occupied Ventilation flow min pre-occupied Ventilation flow min Unoccupied K Factor Duct area	

Optional configuration

	Equipment	Channel/Signal	Settings example
On-board output	Heating coil valve position	Water; Y3, Y4; 3-position Water; Y5, Y6; 3-position Water; Y10; 0...10 V Electric 1-stage; Y3; Normally open Electric 1-stage; Y5; Normally open Electric 2-stage; Y3, Y4; Normally open Electric 2-stage; Y5, Y6; Normally open Electric 3-stage; Y3, Y4, Y5; Normally open Electric 3-stage; Y4, Y5, Y6; Normally open Electric modulating; Y10; 0...10 V	
On-board input	Supply air temperature (B1)	X2; Ni1000 X2; 0…10 V X2; NTC100K X2; NTC10K X2; PT1K_EU X2; PT1K_NA	
KNX PL-Link devices	Room Operator unit 1 (R1)	QMX3.P74 QMX3.P34	
KNX PL-Link devices	Sensor device 1 (R1)	QMX3.P30 QMX3.P70	
HVAC	Heating coil	Hot water heating coil 11 Hot water heat.coil 12, sply.temp.ctrl. Electric heating coil 11, mod.output Electric heating coil 12, sply.temp.ctrl Electric heating coil 13, 1 binary output. Electric heating coil 14, 2 binary outputs. Electric heating coil 15, 3 binary outputs.	

DXR1.E10PL-113/US Intelligent Vav Actuator

Application configuration

	Equipment	Channel/Signal	Settings example
On-board output	Supply air VAV position (integrated actuator)	Y1, Y2; 3-position	Y1, Y2; 3-position
	Fan speed Q1	1-stage; Y4; Normally open 1-stage; Y6; Normally open 2-stage; Y3, Y4; Normally open 2-stage; Y5, Y6; Normally open 3-stage; Y4, Y5, Y6; Normally open Variable speed fan; Y10; 0…10 V	Variable speed fan; Y10; 0…10 V
	Fan enable D5	Y4; Normally open Y6; Normally open	Y4; Normally open
	Heating coil valve position YH	Water; Y3, Y4; 3-position Water; Y5, Y6; 3-position Water; Y3; Pulse width modulation spring return Water; Y5; Pulse width modulation spring return Water; Y10; 0...10 V Electric 1-stage; Y3; Normally open Electric 1-stage; Y5; Normally open Electric 2-stage; Y3, Y4; Normally open Electric 2-stage; Y5, Y6; Normally open Electric 3-stage; Y3, Y4, Y5; Normally open Electric 3-stage; Y4, Y5, Y6; Normally open Electric modulating; Y10; 0...10 V	Electric 2-stage; Y5, Y6; Normally open
On-board input	Supply air VAV differential air pressure (integrated sensor) (YS)	P1	P1
KNX PL-Link devices	Room operator unit device 1 (R1) Sensor device 1	QMX3.P34 QMX3.P74 QMX3.P30 QMX3.P70	QMX3.P74
HVAC	Supply air VAV	Min Air Flow Heating/Cooling Max Air Flow Heating/Cooling K Factor	K Factor 1
	Fan speed	Single-speed fan 11 Multi-speed fan 11 Variable speed fan 11	Single fan speed 11
	Heating coil	Hot water heating coil 11 Hot water heat.coil 12, sply.temp.ctrl. Electric heating coil 11, mod.output Electric heating coil 12, sply.temp.ctrl Electric heating coil 13, 1 binary outp. Electric heating coil 14, 2 binary outp. Electric heating coil 15, 3 binary outp.	Electric heating coil 14, 2 binary output

Optional configuration

	Equipment	Channel/Signal	Settings example
On-board input	Supply air temperature (B1)	X2; Ni1000 X2; 0…10 V X2; NTC100K X2; NTC10K X2; PT1K_EU X2; PT1K_NA	X2; NTC10K
	Fan status (D6)	D1; Normally open X1; Normally open X2; Normally open	D1: Normally open

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Siemens Industry, Inc.
Smart Infrastructure
1000 Deerfield Parkway
Buffalo Grove, IL 60089-4513
USA