## **ABB i-bus® KNX**

## Heating, Ventilation and Air Conditioning – Valve Drive Actuators/Valve Drive Controllers

■ = Function is supported

<sup>=</sup> Function is not supported

	Electronic Switch Actuator	Electronic Relay	Valve Drive Actuator	Valve Drive Controller	Valve Drive Controller
	ES/S x.1.2.1 (x = 4/8)	ER/U 1.1 (in combination with US/U x.2 (x = 2/4)	VAA/S x.230.2.1 (x = 6/12)	VC/S 4.1.1	VC/S 4.2.1
General					
Supply voltage	KNX	24250 V AC/DC	KNX	KNX	KNX
Type of installation	MDRC	Flush-mounted	MDRC	MDRC	MDRC
Module width (18 mm)	4/8	-	4/8	8	8
Current consumption, bus	< 12 mA	< 12 mA	< 12 mA	< 12 mA	< 12 mA
Rated current (per channel)	1 A (resistive load)	0.5 A (resistive load)	160 mA (resistive load)	250 mA	250 mA
Inrush current (per channel)	8 A (1 s, Tu = 20 °C)	1.2 A (1 min.)	300 mA (2 min., Tu = 60 °C)	300 mA (2 min., Tu = 60 °C)	300 mA (2 min., Tu = 60 °C)
Maximum number of thermoelectric valve drives (per channel)	10 (230 V) 3 (24 V)	2 (230 V) 2 (24 V)	3 (230 V) 1 (24 V)	3 (230 V) 1 (24 V)	3 (230 V) 1 (24 V)
Outputs	3 (24 V)	2 (24 V)	1 (24 V)	1 (24 V)	I (24 V)
Number	4/8	1	6/12	4	4
Number	thermoelectric	-	0/12		<u> </u>
Туре	or motor valve drives	thermoelectric valve drives	thermoelectric valve drives	thermoelectric valve drives	thermoelectric valve drives
Output voltage		24 230 V AC/DC	24230 V AC	24230 V AC	24230 V AC
Manual operation					
Manual operation		_		_	
Fault acknowledgement	•	_		_	•
Function:					
Operating mode Valve drive,					
thermoelectric/motor valve drives					
Forced operation		■ (via US/U x.2)		•	
Status	•	-			•
Adjustable control value after controller	•	■ (via US/U x.2)	•	•	•
fault Valve purge		■ (via US/U x.2)			
Characteristic curve adaption	-	■ (VIA 03/ 0 X.L)	-		-
Blocking	-	_			_
	•	_			_
Operating mode Switch actuator Time:					
Staircase lighting, delay, flashing	•	-	-	_	-
8-bit scene		-	-	_	-
Logical functions	•	_	_	_	_
Safety settings		-	-	_	-
Threshold values	•	_	_	_	_
Integrated room temperature controller (RTC)	-	-	-	•	•
Use in Master/Slave system with room operation units	-	-	-	•	-
Control and diagnosis via ABB i-bus® Tool	-	-	-	•	•