
Outline

ABB Caldion® is a KNX sensor for high-end hotels, commercial buildings, offices and public buildings with a dual option for installation. It is a sensor with a combination of switch sensor and actuator which can provide a cost-effective solution for you. The perfect frameless casing and intuitive icons using capacitive touch make your life smarter and easier than ever.

Contacts



ABB Caldion®

Truly the one

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Product overview

ABB Caldion®, part of the ABB i-bus® KNX portfolio is a Room-Temperature Controller for fan coil units with either 2 pipes, 2 pipes with electric heater or 4 pipe system application. Flush Mounted, BS standard; it can be installed as a standalone configuration or with built-in integrated bus coupling as a KNX device. It is equipped with a temperature sensor and 2 x binary input for either presence detection, window, dewpoint alarm or condensate alarm. It has an integrated actuator for valve control of on/ off or 0-10V with 3 x fan speed control. It has dedicated capacitive touch control button for intuitive control and mode operation selection. Its frameless design equipped with a large display ensures the ease of viewing and elegance to complement the surrounding.

Features:

- An integrated (control and actuator) room temperature controller
- One device supports multiple types of application
- Option to select standalone or KNX configurations
- Enhance function configurable via ETS application

Benefits:

- Easy replacement for existing conventional thermostat
- Cost-effective installation
- Intuitive design for ease of controls
- Simple and effective application with option for expansion



ABB Caldion®
Black



ABB Caldion®
White

Technical data:

Power supply	Rate voltage	AC 230V(min.AC 110V),50/60 Hz
	Power consumption	Max. 4 VA
	Maximum allowable inputload(fan+valve +electric auxiliary heat)current through phase input(L)terminal	Max. 7 A
	KNX bus voltage	21...32 V DC
Wire connection	Wiring cross section on L,N,F1,F2,F3,VA,VB	1 x 0.5...2.5 mm ²
	Wiring cross section on GND, E1, E2, 0~10VA, 0~10VB, KNX+, KNX-	stranded wires 1 x 0.5...1.5 mm ²
Degree of protection	IP 20	EN 60529
Protection class	Overvoltage category III	EN 60664-1
	Operating temperature range	-5°C to +50°C
Ambient conditions	Transport and Storage temperature	-25°C to +70°C
	Humidity max range	not more than 98%, no dew permissible
	Maximum air pressure of atmosphere	up to 2000m
	Control output Rating [Resistive(Inductive)] on F1, F2, F3-N; VA/VB -N; RO-N	AC 230 V / Min. 8.3 mA, Max. 5(2) A
Outputs	Max. total load current through terminal "L" (Fx + Vxx)	Max. 7 A
	Control output load on 0~10VA-GND 0~10VB-GND	SELV DC 0...10 V/ 1.5 mA(Max) / > 10 kohms
Inputs	Input port E1 & E2	10V/1mA
	Input cable length	Maximum 30 m

Name	Article code	Order code	Type	Colour
ABB Caldion®	CAR/U4.1.1.1-71	2TAZ740010R2001	On/off valve	Black
	CAR/U4.2.1.1-71	2TAZ741010R2001	0-10v valve	Black
	CAR/U4.1.1.1-84	2TAZ740010R0001	On/off valve	White
	CAR/U4.2.1.1-84	2TAZ741010R0001	0-10v valve	White

