

Elexant 4020i Heat Trace Controller



nVent RAYCHEM Elexant 4020i Series is a range of compact, full-featured, touch screen based, single-point heat-tracing controllers, with ground fault protection. It provides control and monitoring for both freeze protection and process temperature maintenance. Available in three output types: a line powered relay for driving contactors in non hazardous areas; a DC output for driving solid-state relays (SSRs) in non hazardous and Class I Div. 2 / Zone 2 hazardous locations; and a 0-10V analog output for driving variable output power modules. Capable of controlling up to 60A at 690 Vac.

FEATURES

Global approvals for CID2/Zone 2, ATEX Zone 2, IEC Ex Zone 2

Ready to install: no need for custom panel design or field assembly

Flexible control options: up to three directly- connected temperature sensors; also supports 4-20 mA inputs, allowing the use of external temperature sensor converters with thermocouples or other sensor types.; also line sensing, ambient sensing, proportional ambient sensing control (PASC) and power limiting modes.

Flexible monitoring options: ground fault, temperature, current and voltage to ensure system integrity; a programmable dry contact alarm relay is also provided for local or remote alarm annunciation

Multiple communication ports: RS485 and Ethernet, readily connected to a distributed control system (DCS); support both the Modbus RTU and Modbus/TCP protocols; can network to a host PC running Windows®-based nVent RAYCHEM Supervisor software for central programming, status review, and alarm annunciation

Reliable during long life: 10 year product warranty available

SPECIFICATIONS

Current Alarm:	0.1 – 100 A
Autocycle:	1 – 750 h
NEMA Rating:	4X
Ground Fault Alarm:	10 – 500 mA
Ethernet:	10/100 Base-T
Control Max Current:	32A @ 40°C, De-Rated to 24A @ 50°C and Further De-Rated to 16A @ 60°C
Voltage Alarm:	80 – 300 V
Control Max Voltage:	690 VAC Nominal, 50/60Hz
Max Power Supply Input Wire Size:	#5 ga
Max Heating Cable Output Wire Size:	#5 ga
Max Ground Terminal Wire Size:	#5

Control Relay Type:	Double-Pole, Solid-State
Communication:	Ethernet; RS-485
IP Rating:	IP66
Communication Protocol:	Modbus/TCP; Modbus RTU
Control Algorithms:	On/Off, Proportional, PASC, Always On, Always Off
RS-485 Cable Type:	One 2-Wire, Shielded Twisted Pair
Temperature Control Range:	-328 to 1292 °F
Temperature Alarm:	-328 to 1292 °F
Operating Temperature:	-67 to 185 °F

Table 1/2

Catalog Number	Item Name	Material	Relative Humidity	Height	Width	Depth
10380-050	4020i-A-2-FW-2A1SS3-CVH	Fiber-Reinforced Plastic	0% to 90%, Noncondensing	24.61 in	20.18 in	11.47 in
10380-051	4020i-A-2-FW-2A2SS3-CVH	Fiber-Reinforced Plastic		24.61 in	20.18 in	11.47 in
10380-052	4020i-A-4-FW-4A1SS3-CVH	Fiber-Reinforced Plastic		30.51 in	24.11 in	12.97 in
10380-053	4020i-A-6-FW-6A1SS3-CVH	Fiber-Reinforced Plastic		40.35 in	32.48 in	11.48 in

Table 2/2

Catalog Number	Item Name	Circuit Quantity	Switching Capacity	Poles
10380-050	4020i-A-2-FW-2A1SS3-CVH	2	30 A	1
10380-051	4020i-A-2-FW-2A2SS3-CVH	2	30 A	2
10380-052	4020i-A-4-FW-4A1SS3-CVH	4	30 A	1
10380-053	4020i-A-6-FW-6A1SS3-CVH	6	30 A	1

WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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