

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.

CARACTERÍSTICAS

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

ESPECIFICACIONES

Current Alarm:	0,1 – 100 A
Autocycle:	1 – 750 h
NEMA Rating:	4X
Ground Fault Alarm:	10 – 500 mA
Ethernet:	10/100 Base-T
Max Power Supply Input Wire Size:	16,8 mm ²
Max Heating Cable Output Wire Size:	16,8 mm ²
Max Ground Terminal Wire Size:	16,8 mm ²
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

Control Relay Type:	Double-Pole, Solid-State
Comunicaciones:	Ethernet; RS-485
Clasificación IP:	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:	-200 a 700 °C
Temperature Alarm:	-200 a 700 °C
Temperatura de funcionamiento:	-40 a 70 °C

Table 1/2

Número de catálogo	Nombre del artículo	Material	Relative Humidity	Altura	Ancho	Profundidad
10380-050	4020i-A-2-FW-2A1SS3-CVH	Fiber-Reinforced Plastic	0% to 90%, Noncondensating	625 mm	512 mm	291 mm
10380-051	4020i-A-2-FW-2A1SS3-CVH	Fiber-Reinforced Plastic		625 mm	512 mm	291 mm
10380-052	4020i-A-4-FW-4A1SS3-CVH	Fiber-Reinforced Plastic		795 mm	612 mm	330 mm
10380-053	4020i-A-6-FW-6A1SS3-CVH	Fiber-Reinforced Plastic		1025 mm	825 mm	291 mm

Table 2/2

Número de catálogo	Nombre del artículo	Circuit Quantity	Switching Capacity	Poles
10380-050	4020i-A-2-FW-2A1SS3-CVH	2	30 A	1
10380-051	4020i-A-2-FW-2A1SS3-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

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