

# 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

<b>Current Alarm:</b>	0,1 – 100 A
<b>Autocycle:</b>	1 – 750 h
<b>NEMA Rating:</b>	4X
<b>Ground Fault Alarm:</b>	10 – 500 mA
<b>Ethernet:</b>	10/100 Base-T
<b>Max Power Supply Input Wire Size:</b>	16,8 mm <sup>2</sup>
<b>Max Heating Cable Output Wire Size:</b>	16,8 mm <sup>2</sup>
<b>Max Ground Terminal Wire Size:</b>	16,8 mm <sup>2</sup>
<b>Control Max Current:</b>	32A @ 40°C, De-Rated to 24A @ 50°C and Further De-Rated to 16A @ 60°C
<b>Voltage Alarm:</b>	80 – 300 V
<b>Control Max Voltage:</b>	690 VAC Nominal, 50/60Hz

<b>Control Relay Type:</b>	Double-Pole, Solid-State
<b>Comunicaciones:</b>	Ethernet; RS-485
<b>Clasificación IP:</b>	IP66
<b>Communication Protocol:</b>	Modbus/TCP; Modbus RTU
<b>Control Algorithms:</b>	On/Off, Proportional, PASC, Always On, Always Off
<b>RS-485 Cable Type:</b>	One 2-Wire, Shielded Twisted Pair
<b>Temperature Control Range:</b>	-200 a 700 °C
<b>Temperature Alarm:</b>	-200 a 700 °C
<b>Temperatura de funcionamiento:</b>	-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

## ADVERTENCIA

Los productos nVent deben instalarse y usarse solo como se indica en las hojas de instrucciones y materiales de capacitación del producto nVent. Las hojas de instrucciones están disponibles en [www.nvent.com](http://www.nvent.com) y con su representante de atención al cliente de nVent. La instalación incorrecta, el mal uso, la aplicación incorrecta u otras fallas en el seguimiento completo de las instrucciones y advertencias de nVent pueden causar el mal funcionamiento del producto, daños a la propiedad, lesiones corporales graves y la muerte y/o anular la garantía.

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