

# 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.

## RECURSOS

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

## ESPECIFICAÇÕES

|                                                          |                                                                       |
|----------------------------------------------------------|-----------------------------------------------------------------------|
| <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>Tamanho máximo do fio do terminal de aterramento:</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>Comunicação:</b>               | Ethernet; RS-485                                  |
| <b>Classificação 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>Operating Temperature:</b>     | -40 a 70 °C                                       |

Table 1/2

| Número do catálogo | Nome do item            | Material                 | Relative Humidity        | Altura  | Largura | Profundidade |
|--------------------|-------------------------|--------------------------|--------------------------|---------|---------|--------------|
| 10380-050          | 4020i-A-2-FW-2A1SS3-CVH | Fiber-Reinforced Plastic | 0% to 90%, Noncondensing | 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 do catálogo | Nome do item            | 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     |

## AVISO

Os produtos nVent devem ser instalados e utilizados apenas conforme indicado nas fichas de instrução do produto e materiais de treinamento da nVent. As fichas de instrução estão disponíveis em [www.nVent.com](http://www.nVent.com) e com nossos representantes de atendimento ao cliente nVent. A instalação inadequada, uso incorreto, aplicação incorreta ou outra falha qualquer em seguir completamente as instruções e avisos da nVent podem levar ao mau funcionamento do produto, danos à propriedade, lesões corporais graves e morte, e/ou anular sua garantia.

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