

Elexant 4010i Heat Trace Controller



nVent RAYCHEM Elexant 4010i 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 with either an electromechanical relay (EMR) for use in non hazardous areas, or solid-state relay (SSR) for use in non hazardous and Class I Div. 2 / Zone 2 hazardous locations. Capable of controlling up to 32A at 277 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

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

Soft-Start, ground fault trip and high/low temperature limit features for equipment protection

Multiple communication ports: RS485 and Ethernet, readily connected to a distributed control system (DCS)

Support both the Modbus RTU and Modbus/TCP protocols

Automatic network configuration with DHCP, or static IP configuration

Firmware updates using USB thumb drive

Multi-language interface: English, French, German, Spanish, Russian

Two multi-purpose digital inputs for connection to external dry (voltage free) contact or DC voltage

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
Control Max Current:	32A @ 40°C, De-Rated to 24A @ 50°C and Further De-Rated to 16A @ 60°C
Max Ground Terminal Wire Size:	33 mm ²
Voltage Alarm:	80 – 300 V
Control Max Voltage:	277 VAC Nominal, 50/60Hz
Relative Humidity:	0% to 90%, Noncondensating
Comunicaciones:	RS-485; Ethernet
Communication Protocol:	Modbus/TCP; Modbus RTU
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 60 °C

Table 1/2

Número de catálogo	Nombre del artículo	Material	Clasificación IP	Control Relay Type	Control Algorithms	Altura
10380-001	4010i-EMR-FW	Fiber-Reinforced Plastic	IP64	Double-Pole, Mechanical	On/Off, PASC, Always On, Always Off	305 mm
10380-002	4010i-SSR-FW	Fiber-Reinforced Plastic	IP64	Double-Pole, Solid-State	On/Off, Proportional, PASC, Always On, Always Off	308 mm
10380-003	4010i-EMR-SW	Stainless Steel, 304	IP66	Double-Pole, Mechanical	On/Off, PASC, Always On, Always Off	300 mm
10380-004	4010i-SSR-SW	Stainless Steel, 304	IP66	Double-Pole, Solid-State	On/Off, Proportional, PASC, Always On, Always Off	308 mm
10380-005	4010i-EMR-IS-FW	Fiber-Reinforced Plastic	IP64	Double-Pole, Mechanical	On/Off, PASC, Always On, Always Off	305 mm
10380-006	4010i-SSR-IS-FW	Fiber-Reinforced Plastic	IP64	Double-Pole, Solid-State	On/Off, Proportional, PASC, Always On, Always Off	308 mm
10380-007	4010i-EMR-IS-SW	Stainless Steel, 304	IP66	Double-Pole, Mechanical	On/Off, PASC, Always On, Always Off	300 mm
10380-008	4010i-SSR-IS-SW	Stainless Steel, 304	IP66	Double-Pole, Solid-State	On/Off, Proportional, PASC, Always On, Always Off	308 mm

Table 2/2

Número de catálogo	Nombre del artículo	Ancho	Profundidad	Intrinsically Safe Barriers on RTD Inputs
10380-001	4010i-EMR-FW	226 mm	156 mm	No
10380-002	4010i-SSR-FW	226 mm	184 mm	No
10380-003	4010i-EMR-SW	231 mm	160 mm	No
10380-004	4010i-SSR-SW	231 mm	191 mm	No
10380-005	4010i-EMR-IS-FW	226 mm	156 mm	Sí
10380-006	4010i-SSR-IS-FW	226 mm	184 mm	Sí
10380-007	4010i-EMR-IS-SW	231 mm	160 mm	Sí
10380-008	4010i-SSR-IS-SW	231 mm	191 mm	Sí

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