

POINT I/O 2 Relay Output Module

Specifications

Specifications - 1734-OX2 Output Relay Module	
Outputs per Module	2 Form C isolated (normally open; normally closed) electromechanical relays
Off-State Leakage Current (max at 240V ac)	2.0mA and bleed resistor thru snubber circuit
Output Voltage Range (load dependent)	5-28.8V dc @ 2.0A resistive 48V dc @ 0.5A resistive 125V dc @ 0.25A resistive 125V ac @ 2.0A resistive 240V ac @ 2.0A resistive
Output Current Rating (at rated power)	Resistive 2A @ 5-28.8V dc 0.5A @ 48V dc 0.25A @ 125V dc 2A @ 125V ac 2A @ 240V ac Inductive 2.0A steady state @ 5-28.8V dc, L/R = 7ms 0.5A steady state @ 48V dc, L/R = 7ms 0.25A steady state @ 125V dc, L/R = 7ms 2.0A steady state, 15A make @ 125V ac, PF = $\cos \theta = 0.4$ 2.0A steady state, 15A make @ 240V ac, PF = $\cos \theta = 0.4$
Power Rating (steady state)	250W max. for 125V ac resistive output 480W max. for 240V ac resistive output 60W max. for 28.8V dc resistive output 24W max. for 48V dc resistive output 31W max. for 125V dc resistive output 250VA max. for 125V ac inductive output 480VA max. for 240V ac inductive output 60VA max. for 28.8V dc inductive output 24VA max. for 48V dc inductive output 31VA max. for 125V dc inductive output
Output Signal Delay OFF to ON ON to OFF	10ms maximum (time from valid output on signal to relay energization by module) 10ms maximum (time from valid output off signal to relay deenergization by module)
Initial Contact Resistance	30m Ω
Switching Frequency	1 operation/3s (0.3Hz at rated load) max
Operate/Release Time	10ms max
Bounce Time	1.2ms (mean)
Minimum Contact Load	5mA per point
Expected Life of Electrical Contacts	Minimum 1,000,000 cycles resistive 100,000 cycles inductive

POINT I/O 2 Relay Output Module

Fusing	Module outputs are not fused. If fusing is desired, you must supply external fusing.
Indicators	2 green/red module/network status 2 yellow output status
Keyswitch position	7
General Specifications	
Module Location	1734-TB or -TBS wiring base assembly
Pointbus Current	100mA max @ 5V dc
Power Dissipation	0.5W max
Thermal Dissipation	1.7 BTU/hr max
Isolation Voltage Between any 2 sets of contacts Customer load to logic	250V continuous (Tested to 2550V dc for 1s) 250V continuous (Tested to 2550V dc for 1s)
Field Power Bus Supply Voltage Voltage Range Supply Current	None required 240V ac max 2A per channel maximum, 4A per module
Dimensions Inches (Millimeters)	2.21H x 0.47W x 2.97L (56H x 12W x 75.5L)
Environmental Conditions	
Operational Temperature	IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -20 to 55°C (-4 to 131°F)
Storage Temperature	IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock): -40 to 85°C (-40 to 185°F)
Relative Humidity	IEC 60068-2-30 (Test Db, Unpackaged Nonoperating Damp Heat): 5 to 95% noncondensing
Shock Operating Non-operating	IEC60068-2-27 (Test Ea, Unpackaged Shock) 30g peak acceleration 50g peak acceleration
Vibration	IEC60068-2-6, (Test Fc, Operating) Tested 5g @ 10-500Hz
ESD Immunity	IEC 61000-4-2: 6kV contact discharges 8kV air discharges
Radiated RF Immunity	IEC 61000-4-3: 10V/m with 1kHz sine-wave 80%AM from 80MHz to 1000MHz 10V/m with 200Hz 50% Pulse 100%AM at 900Mhz

EFT/B Immunity	IEC 61000-4-4: ±2kV at 5kHz on signal ports
Surge Transient Immunity	IEC 61000-4-5: ±1kV line-line(DM) and ±2kV line-earth(CM) on signal ports
Conducted RF Immunity	IEC 61000-4-6: 10Vrms with 1kHz sine-wave 80%AM from 150kHz to 80MHz
Emissions	CISPR 11; Group 1, Class A
Enclosure Type Rating	None (open-style)
Conductors	Wire Size 14 AWG (2.5mm ²) - 22 AWG (0.25mm ²) solid or stranded copper wire rated @ 75°C or greater 3/64 inch (1.2mm) insulation maximum Category 2 ¹
Terminal Base Screw Torque	7 pound-inches (0.6Nm)
Field Wiring Terminations	0 - Output 0 - NC 1 - Output 1 - NC 2 - Output 0 - NO 3 - Output 1 - NO 4 - Relay Common 0 5 - Relay Common 1 6 - +Supply 7 - +Supply
Mass	1.30 oz/36.9 grams
Agency Certification (when product is marked)	c-UL-us - UL Listed Industrial Control Equipment, certified for US and Canada c-UL-us - UL Listed for Class I, Division 2, Groups A, B, C and D Hazardous locations, certified for US and Canada CE² - European Union 89/336/EEC EMC Directive, compliant with: EN 50081-2; Industrial Emissions EN 50082-2; Industrial Immunity EN 61326; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity C-Tick² - Australian Radiocommunications Act compliant with AS/NZS 2064, Industrial Emissions ODVA - ODVA Conformance tested to ODVA DeviceNet specifications

- 1 Use this conductor category information for planning conductor routing. Refer to publication 1770-4.1, "Industrial Automation Wiring and Grounding Guidelines."
- 2 See the Product Certification link at www.ab.com for Declaration of Conformity, Certificates, and other certification details.

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846