

1734 POINT I/O

Digital I/O Modules

The 1734 digital I/O modules support:

- A wide variety of voltage interface capabilities.
- Isolated and non-isolated module types.
- Point-level output fault states for short-circuit and wire-off diagnostics.
- Choice of direct-connect or rack-optimized communications.
- Field-side diagnostics on select modules.
- Safety applications up to and including SIL 3, Cat. 4, PL(e), when using 1734-IB8S or 1734-OB8S with a GuardLogix, SmartGuard 600, or GuardPLC controller.

POINT Digital AC Input Modules

Cat. No.	Inputs	Voltage Category	Input Delay Time, On to Off	On-State Current, Min.	Input Impedance, Nom.	Off-State Current, Max.	PointBus Current (mA)	Power Dissipation, Max.	Terminal Base Unit
1734-IA2	2 Non-isolated, current sinking	120V AC (65V AC...132V AC)	20.0 ms hardware + (0...65 ms selectable)	4.0 mA @ 65V AC, 60 Hz	10.6 kΩ	2.7 mA @ 43V AC	75 mA	0.1 W at 132V AC	1734-TB, 1734-TBS, 1734-TOP, or 1734-TOPS
1734-IA4	4 Non-isolated, current sinking								
1734-IM2	2 Non-isolated, current sinking	220V AC (159V AC...264V AC)		6.2 mA @ 159V AC, 60 Hz	22.3 kΩ	2.9 mA @43V AC			
1734-IM4	4 Non-isolated, current sinking								

POINT Digital AC Output Modules

Cat. No.	Outputs	Voltage Category	Output Current Rating	PointBus Current (mA)	Power Dissipation, Max.	Terminal Base Unit
1734-OA2	2 Non-isolated, current sourcing	120/220V AC (74V AC...264V AC)	1.5 A (2 channels @ 0.75 A each)	75 mA	2 W at 264V AC	1734-TB, 1734-TBS, 1734-TOP, or 1734-TOPS
1734-OA4	4 Non-isolated, current sourcing		2.0 A (750 mA per output)		3.5 W at 264V AC	

POINT Digital DC Input Modules

The 1734-IB4D module is a 4-channel 24V DC input module with short-circuit and open-wire diagnostics. Catalog numbers ending with "S" are safety-rated.

Cat. No.	Inputs	Voltage Category	Input Delay Time, On to Off	On-State Current, Min.	On-State Current, Max.	Off-State Current, Max.	PointBus Current (mA)	Power Dissipation, Max.	Terminal Base Unit
1734-IB2	2 current sinking	24V DC (10V DC...28.8V DC)	0.5 ms hardware + (0...65 ms selectable)	2 mA	5 mA	1.5 mA	75 mA	0.7 W at 28.8V DC	1734-TB or 1734-TBS
1734-IB4	4 current sinking							1.0 W at 28.8V DC	1734-TB, 1734-TBS, 1734-TB3, or 1734-TB3S*
1734-IB4D	4 Sink, diagnostic	24V DC (11V DC...28.8V DC)	—	2 mA	15 mA	—	50 mA	0.6 W at 28.8V DC	1734-TB, 1734-TBS, 1734-TOP, or 1734-TOPS
1734-IB8	8 current sinking	24V DC (10V DC...28.8V DC)	0.5 ms hardware + (0...65 ms selectable)	2 mA	5 mA	1.5 mA	75 mA	1.6 W at 28.8V DC	1734-TB or 1734-TBS
1734-IB8S	8 current sinking, safety-rated	24V DC (11V DC...28.8V DC)	—	3.3 mA	5 mA	1.3 mA	175 mA	2.44 W	1734-TB, 1734-TOP, 1734-TOP3
1734-IV2	2 current sourcing	24V DC (10V DC...28.8V DC)	0.5 ms hardware + (0...65 ms selectable)	2 mA	5 mA	1.5 mA	75 mA	0.7 W at 28.8V DC	1734-TB or 1734-TBS
1734-IV4	4 current sourcing							1.0 W at 28.8V DC	1734-TB, 1734-TBS, 1734-TB3, or 1734-TB3S*
1734-IV8	8 current sourcing							1.6 W at 28.8V DC	1734-TB or 1734-TBS

* 1734-TB3 or 1734-TB3S recommended.

POINT Digital DC Output Modules

Catalog numbers ending with "E" are electronically protected. Catalog numbers ending with "S" are safety-rated. The 1734-OB2EP module has 24V DC electronically protected, fast-switching high-current outputs.

Cat. No.	Outputs	Voltage Category	Output Current Rating, Max.	PointBus Current (mA)	Power Dissipation, Max.	Terminal Base Unit
1734-OB2	2 current sourcing	24V DC (10V DC...28.8V DC)	2.0 A per module, 1.0 A per channel	75 mA	0.8 W at 28.8V DC	1734-TB or 1734-TBS
1734-OB2E	2 current sourcing, electronically protected	24V DC (10V DC...28.8V DC)	2.0 A per module, 1.0 A per channel	75 mA	0.8 W at 28.8V DC	1734-TB or 1734-TBS
1734-OB2EP	2 current sourcing, electronically protected, fast-switching high-current	24V DC (10V DC...28.8V DC)	4.0 A per module, 2.0 A per channel	75 mA	3.4 W at 28.8V DC	1734-TB or 1734-TBS
1734-OB4	4 current sourcing	24V DC (10V DC...28.8V DC)	3.0 A per module, 1.0 A per channel	75 mA	1.2 W at 28.8V DC	1734-TB or 1734-TBS
1734-OB4E	4 current sourcing, electronically protected	24V DC (10V DC...28.8V DC)	3.0 A per module, 1.0 A per channel	75 mA	1.2 W at 28.8V DC	1734-TB, 1734-TBS
1734-OB8	8 current sourcing	24V DC (10V DC...28.8V DC)	3.0 A per module, 1.0 A per channel	75 mA	2.0 W at 28.8V DC	1734-TB or 1734-TBS
1734-OB8E	8 current sourcing, electronically protected	24V DC (10V DC...28.8V DC)	3.0 A per module, 1.0 A per channel	75 mA	2.0 W at 28.8V DC	1734-TB, 1734-TBS
1734-OB8S	8 current sourcing, safety-rated	24V DC (10V DC...28.8V DC)	1 A max per point	190 mA	3.02 W	1734-TB, 1734-TOP, 1734-TOP3
1734-OV2E	2 current sinking, electronically protected	24V DC (10V DC...28.8V DC)	2.0 A max per module, 1.0 A per output	75 mA	0.8 W at 28.8V DC	1734-TB or 1734-TBS
1734-OV4E	4 current sinking, electronically protected	24V DC (10V DC...28.8V DC)	3.0 A max per module 1.0 A per output	75 mA	1.2 W at 28.8V DC	1734-TB or 1734-TBS
1734-OV8E	8 current sinking, electronically protected	24V DC (10V DC...28.8V DC)	3.0 A per module, 1.0 A per channel	75 mA	2.0 W at 28.8V DC	1734-TB, 1734-TBS

POINT Digital DC Configurable Input/Output Module

The 1734-8CFG module is a 24V DC I/O module with 8 self-configuring points. The 1734-8CFGDLX module offers 8 self-configuring points and DeviceLogix capabilities. Each of the I/O points can be a DC input or output.

Cat. No.	Inputs/Outputs	Voltage Category	Input Voltage Range	Output Voltage Range	PointBus Current (mA)	Power Dissipation, Max.	Terminal Base Unit
1734-8CFG	8, self-configuring	24V DC	11V DC...28.8V DC	10V DC...28.8V DC	100 mA	2.6 W at 28.8V DC	1734-TB, 1734-TBS, 1734-TOP, 1734-TOPS
1734-8CFGDLX	8, self-configuring, with DeviceLogix 8, self-configuring, with DeviceLogix						

POINT Digital Contact Output Modules

Cat. No.	Outputs	Voltage Range	Output Delay Time, On to Off, Max.*	Contact Resistance, Initial	Output Current Rating, Max.	Leakage Current, Off-State Output, Max	PointBus Current (mA)	Power Dissipation, Max.	Terminal Base Unit
1734-OW2	2 Form A N.O. relays	5...28.8V DC at 2.0 A resistive 48V DC at 0.5 A resistive 125V DC at 0.25 A resistive 125V DC at 2.0 A resistive 240V DC at 2.0 A resistive	26 ms	30 mΩ	2.0 A per channel	1.2 mA and bleed resistor thru snubber circuit @ 240V AC	80 mA	0.5 W	1734-TB or 1734-TBS
1734-OW4	4 Form A N.O. relays								
1734-OX2	2 Form C isolated N.O./N.C. relays		10 ms	30 mΩ	2.0 A per channel	2.0 mA and bleed resistor thru snubber circuit @ 240V AC	100 mA		

* Time from valid output off signal to relay deenergization by module.