POINT Guard I/O™ Product Profile

Safety and Automation Control in One Compact I/O Platform

AB QUALITY *Allen-Bradley*

Benefits

Cost Optimized
Mix safety inputs and outputs with standard POINT I/O™, all with one node

Compact Solution
Maximum I/O density in minimum panel space

Easy Retrofit
Add to existing panels using POINT I/O

I/O point level diagnostics and Status Indicators
Quickly identify a problem to help reduce machine downtime

TÜV certified
For use in safety applications up to SIL3, PLe and CAT 4

Easier Configuration
Via RSLogix 5000® with full support of IP addressing

Flexibility
Supports connection of single and dual channel safety devices on inputs and outputs

Individual Test Outputs
Can be assigned for each safety input device allowing for optimized cable installations

Muting Lamp Control
Provided on selected test pulse outputs for lamp control and fault monitoring

Simplified control system safety integration

POINT Guard I/O

POINT Guard I/O are safety rated I/O modules designed to fit into the standard POINT I/O system, thus offering automation and safety functionality in a maximum density I/O solution. They are ideal for use in applications requiring safety and automation control. They communicate with CIP Safety protocol over EtherNet/IP for GuardLogix® safety controllers and DeviceNet for SmartGuard™ 600 safety controllers.

• CIP Safety over EtherNet/IP or DeviceNet

• Maximum density I/O solution for premium panel space applications

• Safety and automation control in one I/O solution

The application of the CIP Safety protocol allows simultaneous transmission of safety and automation control data and diagnostic information over one CIP network.

POINT I/O and POINT Guard I/O can be controlled by a single GuardLogix controller for both safety and automation control through one node. If separate safety control is required, a GuardLogix controller can be used with POINT Guard I/O for safety control and a ControlLogix® controller with POINT I/O for automation control. No changes are required to the POINT I/O system.

This solution is ideal for applications requiring maximum I/O density in minimum panel space. The advanced solid-state design allows for module replacement in minutes and reduces the need for special maintenance or training.

POINT Guard I/O is designed for use with industrial equipment and is especially suited for robotic, point-of-operation, guard-monitoring and distributed control applications.

LISTEN.
THINK.
SOLVE®

AB *Allen-Bradley* • *Rockwell Software*

Rockwell Automation

Product Specifications

Catalog Number	1734-IB8S	1734-OB8S	1734-IE4S	1734-OBV2S
Description	24V DC Input Module	24V DC Solid-State Output Module	Analog Input Module	24V DC Solid-State Output Module
I/O Channel Isolation	No Channel - Channel Isolation	No Channel - Channel Isolation	No Channel - Channel Isolation	No Channel- Channel Isolation
Analog Input				
Number of Inputs	—	—	4	—
Input Type	—	—	Configurable (Voltage, Current, Tachometer)	—
Input Voltage Range	—	—	+/- 5V, +/- 10V, 0-5V, 0-10V	—
Input Current Range	—	—	0-20 mA, 4-20 mA	—
Input Tachometer Range	—	—	0-24V, Configured in 1V Increments	—
Tachometer Frequency Range	—	—	1…1000 Hz	—
Digital Inputs				
Number of Inputs (single-channel)	8 Safety	—	—	—
Input Type	Current Sinking	—	—	—
Voltage, On-State Input, Min	11V DC	—	—	—
Voltage, Off-State Input, Max	5V DC	—	—	—
Digital Outputs				
Number of Outputs (single-channel)	—	8 Safety	—	2 Bipolar
Output Type	—	Current Sourcing	—	Current Sourcing/ Sinking Pair
Output Current Rating	—	1 A Max Per Point	—	1.25 A Max
Short Circuit Protection	—	Yes, Electronic	—	Yes, Electronic
Overcurrent Detection	—	Yes	—	Yes
Standard Pulse Test Outputs				
Number of Pulse Test Sources	4	—	—	—
Pulse Test Output Current	0.7 A Per Point	—	—	—
Short Circuit Protection	Yes	—	—	—
General				
Operating Temperature	-20° C…+55° C	-20° C…+55° C	-20° C…+55° C	-20° C...+55° C
Dimensions-without terminal base (HxWxD)	77 x 25 x 55 mm	77 x 25 x 55 mm	77 x 25 x 55 mm	77 x 25 x 55 mm
Dimensions-without terminal base (HxWxD)	3.03 x 0.98 x 2.17 in	3.03 x 0.98 x 2.17 in	3.03 x 0.98 x 2.17 in	3.03 x 0.98 x 2.17 in
Certifications				

CE, C-Tick, CSA, ODVA Conformance, TÜV certified for functional safety up to SIL 3, Cat. 4, PLe, UL and UL Class I Div 2 Hazardous - when product is marked

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