

Allen-Bradley - ControlLogix

1756-IA16I

Isolated AC Digital Input Module**Technical specifications**

Inputs	16 individually isolated
Voltage category	120 V AC, 50/60 Hz
Operating voltage range	79-132 V AC, 47-63 Hz
Off-to-on delay	10 ms maximum plus 1 or 2 ms selectable filter
On-to-off delay	8 ms maximum plus 9 or 18 ms selectable filter
Current draw at 5.1 V	125 mA
Current draw at 24 V	3 mA
Total backplane power	0.71 W
Power dissipation	4.9 W maximum at 60 °C
Off-state voltage / current	20 V maximum / 2.5 mA maximum
On-state current	5 mA minimum at 79 V AC; 15 mA maximum at 132 V AC
Cyclic update time	200 µs to 750 ms
Input timestamp	±200 µs
Isolation voltage	125 V continuous, input-to-backplane and input-to-input

Documented role

Allen-Bradley 1756-IA16I is a 16-point individually isolated 120 V AC digital input module for ControlLogix chassis systems.

Documented applications

- Monitoring 120 V AC limit switches and auxiliary contacts
- Isolated status acquisition from motor-control and power-distribution equipment
- ControlLogix digital input expansion where channel-to-channel isolation is required

Selection and installation checks

Allen-Bradley 1756-IA16I requires Series A compatibility, 79-132 V AC field signals, correct per-channel isolated wiring, a 1756-TBCH or 1756-TBS6H RTB, and validated filter, keying, timestamp, and change-of-state settings.