

ControlLogix[®] 1756sc-IC32 32-Channel 48 VAC/VDC Discrete Inputs Module



The ControlLogix[®] 32 Channel 48VAC/VDC Discrete Inputs Module provides 48 Volt DC digital inputs and 250 Volts AC RMS for continuous isolation from any channel to the backplane, and from any channel to the frame ground. This module comes with TechConnect[™] support from Rockwell Automation at no additional cost to you:

- 32-Point AC/DC digital inputs.
- Inputs are organized as 8 input channels per group.
- Off/On selectable filtering selections for 0, 1, and 2 milliseconds.
- On/Off selectable filtering selections for 0, 1, 2, 9, and 18 milliseconds.
- Off/On Change -of-State Enable option per point.
- On/Off Change-of-State Enable option per point.

1756sc-IC32 Specifications



Number of Inputs	32 (4 groups of 8 channels) points/common.
Input Type:	48 VDC or AC nominal Sink/Source
DC On-State Voltage Range:	30-60 VDC
DC On-State Current:	2.0 mA at 30 VDC minimum 3.0 mA at 48 VDC maximum 5.0 mA maximum, all conditions
DC Off-State Voltage:	10 VDC guaranteed OFF under all conditions
DC Maximum Off-State Current:	0.9 mA minimum 1.5 mA maximum
AC On-State Voltage Range:	20 VAC (RMS) minimum ON worst case conditions 20 to 53 VAC (RMS) ON under all conditions
AC On-State Current:	2.0 mA at 30 VAC (RMS) 3.0 mA nominal at 48 VDC 5.0 mA maximum, all conditions (RMS)
AC Off-State Voltage:	10 VAC guaranteed OFF under all conditions
AC Off-State Current:	0.9 mA minimum 1.5 mA maximum
Cyclic Update Time:	User-selectable (100 μ s minimum/750 ms maximum)
Nominal Input Voltage:	48 VDC
Power Consumption:	200 mA at 5 VDC and 2 mA at 24 VDC
Maximum Power Dissipation:	10 W at 60 °C
Thermal Dissipation:	16.37 BTU/hr at 60 °C
Environmental Conditions:	
Operational Temperature:	0 °C to +60 °C (32 °F to +140 °F)
Storage Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Relative Humidity:	5% to 95% (non-condensing)
Certifications:	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE, ATEX, CCC, CMIM, UKCA