

Available 1756 I/O Modules

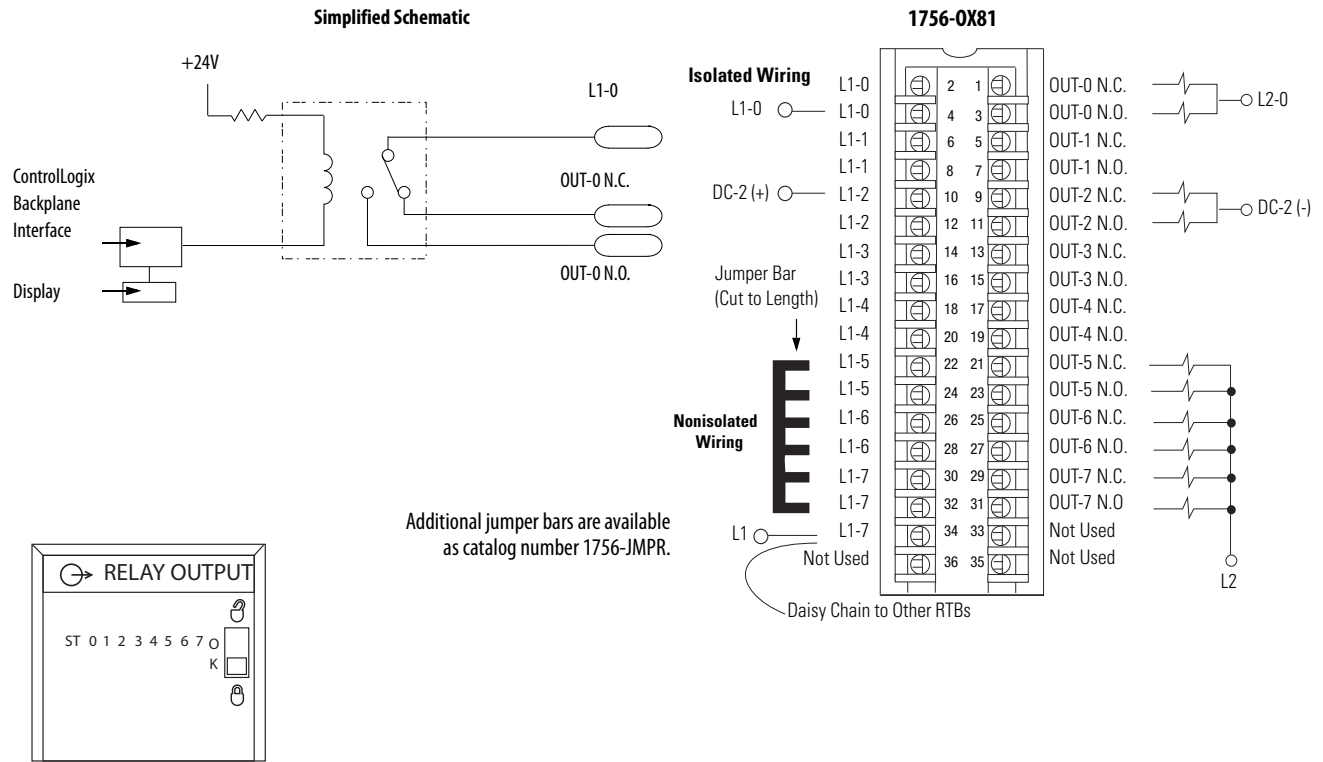
You can select these types of digital I/O modules.

Digital I/O Type	Description
Diagnostic	These modules provide diagnostic features to the point level. These modules have a D at the end of the catalog number.
Electronic fusing	These modules have internal electronic fusing to help prevent too much current from flowing through the module. These modules have an E at the end of the catalog number.
Individually isolated	These modules have individually isolated inputs or outputs. These modules have an I at the end of the catalog number.

I/O Type	Cat. No.	Page	Cat. No.	Page
AC digital	1756-IA8D	4	1756-LSC8XIB8I	230
	1756-IA16	7	1756-OA8D	128
	1756-IA16I	10	1756-OA8E	131
	1756-IA32	13	1756-OA16	134
	1756-IM16I	86	1756-OA16I	138
	1756-IN16	89	1756-ON8	206
DC digital	1756-IB16	16	1756-OB8I	147
	1756-IB16D	19	1756-OB16D	150
	1756-IB16I	22	1756-OB16E	153
	1756-IB16IF	25	1756-OB16I	157
	1756-IB16ISOE	28	1756-OB16IEF	160
	1756-IB32	31	1756-OB16IEFS	163
	1756-IC16	34	1756-OB16IS	166
	1756-IG16	77	1756-OB32	169
	1756-IH16I	80	1756-OC8	172
	1756-IH16ISOE	83	1756-OG16	200
	1756-IV16	119	1756-OH8I	203
	1756-IV32	122	1756-OV16E	209
	1756-OB8	141	1756-OV32E	212
	1756-OB8EI	144		
Contact			1756-OW16I	215
			1756-OX8I	218
Analog	1756-IF6CIS	41	1756-OF4	175
	1756-IF6I	45	1756-OF6CI	179
	1756-IF8	49	1756-OF6VI	182
	1756-IF8I	57	1756-OF8	185
	1756-IF16	65	1756-OF8I	193
	1756-IF4FXOF2F	37		
	1756-IR6I	92		
	1756-IRT8I	97		
	1756-IR12	103		
	1756-IT6I	107		
	1756-IT6I2	111		
	1756-IT16	115		
HART interface	1756-IF8H	54	1756-OF8H	189
	1756-IF8IH	61	1756-OF8IH	197
	1756-IF16H	70		
	1756-IF16IH	73		
Specialty	1756-CFM	221	1756-LSC8XIB8I	230
	1756-HSC	226	1756-PLS	234

1756-0X8I

ControlLogix AC (10...240V) DC (5...125V) isolated contact module



Technical Specifications - 1756-0X8I

Attribute	1756-0X8I
Outputs	8 N.O. 8 N.C. individually isolated (two points per group)
Pilot duty	C300/R150
Operating voltage range	5...125V DC 10...240V AC
Contact current rating	1 A @ 5...30V DC 0.5 A @ 48V DC 0.22 A @ 125V DC 1.5 A @ 120V AC 50/60 Hz 0.75 A @ 240VAC 50/60 Hz
Output delay time	
Off to On	13 ms max
On to Off	13 ms max
Current draw @ 5.1V	100 mA
Current draw @ 24V	100 mA
Total backplane power	2.9 W
Power dissipation, max	3.1 W @ 60 °C (140 °F)
Thermal dissipation	10.57 BTU/hr
Off-state leakage current per point, max	0 mA
Minimum load current	10 mA per point
Initial contact resistance, max	100 mΩ @ 6V 1 A

Technical Specifications - 1756-0X8I (continued)

Attribute	1756-0X8I
Switching frequency, max	1 operation/3 s (0.3 Hz at rated load)
Bounce time, mean	1.2 ms
Expected contact life	300 kHz resistive 100 kHz inductive
Scheduled outputs	Synchronization within 16.7 s max, reference to the Coordinated System Time
States in Fault mode per point	Hold last state, On or Off (Off is default)
States in Program mode per point	Hold last state, On or Off (Off is default)
Isolation voltage	250V (continuous), basic insulation type, outputs-to-backplane, and output-to-output Routine tested @ 1350V AC for 2 s
Module keying	Electronic, software configurable
Fusing	Not protected. A fused IFM is recommended to help protect outputs.
Removable terminal block	1756-TBCH 1756-TBS6H
RTB keying	User-defined mechanical
Slot width	1
Wire category	1 ⁽¹⁾
North American temperature code	T4A
Enclosure type	None (open-style)

(1) Use this conductor category information for planning conductor routing as described in the system-level installation manual. See the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Environmental Specifications - 1756-0X8I

Attribute	1756-0X8I
Temperature, operating 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)	0...60 °C (32...140 °F)
Temperature, surrounding air, max	60 °C (140 °F)
Temperature, nonoperating 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...+85 °C (-40...+185 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing
Vibration IEC 60068-2-6 (Test Fc, Operating)	2 g @ 10...500 Hz
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	50 g
Emissions	CISPR 11, Class A
ESD immunity IEC 61000-4-2	6 kV contact discharges 8 kV air discharges
Radiated RF immunity IEC 61000-4-3	10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz

Environmental Specifications - 1756-0X8I (continued)

Attribute	1756-0X8I
EFT/B immunity IEC 61000-4-4	±4 kV at 5 kHz on signal ports
Surge transient immunity IEC 61000-4-5	±1 kV line-line (DM) and ±2 kV line-earth (CM) on signal ports
Conducted RF immunity IEC 61000-4-6	10V rms with 1 kHz sine-wave 80% AM from 150 kHz . . . 80 MHz
Oscillatory surge withstand IEEE C37.90.1	3 kV

Certifications - 1756-0X8I

Certification⁽¹⁾	1756-0X8I
UL	UL Listed Industrial Control Equipment. See UL File E65584.
CSA	CSA Certified Process Control Equipment. See CSA File LR54689C. CSA Certified Process Control Equipment for Class I, Division 2 Group A,B,C,D Hazardous Locations. See CSA File LR69960C.
CE	European Union 2004/108/IEC EMC Directive, compliant with: <ul style="list-style-type: none"> • EN 61326-1; Meas./Control/Lab., Industrial Requirements • EN 61000-6-2; Industrial Immunity • EN 61000-6-4; Industrial Emissions • EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) European Union 2006/95/EC LVD, compliant with: EN 61131-2; Programmable Controllers
C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions
FM	FM Approved Equipment for use in Class I Division 2 Group A,B,C,D Hazardous Locations

(1) When marked. See the Product Certification link at <http://www.ab.com> for Declarations of Conformity, Certificates, and other certification details.