

Certifications

Certification (when product is marked) ⁽¹⁾	Value
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E334470.
CE	European Union 2004/108/EC EMC Directive, compliant with: 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 (Clause 11)
C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions

(1) See the Product Certification link at <http://www.rockwellautomation.com/products/certification/> for Declaration of Conformity, Certificates, and other certification details.

Micro830 48-Point Controllers

General Specifications – 2080-LC30-48AWB, 2080-LC30-48QWB, 2080-LC30-48QVB, 2080-LC30-48QBB

Attribute	2080-LC30-48AWB	2080-LC30-48QWB	2080-LC30-48QVB	2080-LC30-48QBB
Number of I/O	48 (28 inputs, 20 outputs)			
Dimensions HxWxD	90 x 230 x 80 mm (3.54 x 9.06 x 3.15 in.)			
Shipping weight, approx.	0.725 kg (1.60 lb)			
Wire size	0.2...2.5 mm ² (24...12 AWG) solid copper wire or 0.2...2.5 mm ² (24...12 AWG) stranded copper wire rated @ 90 °C (194 °F) insulation max			
Wiring category ⁽¹⁾	2 – on signal ports 2 – on power ports			
Wire type	Use copper conductors only			
Terminal screw torque	0.6 Nm (4.4 lb-in) max (using a 2.5 mm (0.10 in.) flat-blade screwdriver)			
Input circuit type	120V AC	12/24V sink/source (standard) 24V sink/source (high-speed)		
Output circuit type	Relay		24V DC sink (standard and high-speed)	24V DC source (standard and high-speed)
Event input interrupt support	Yes, inputs 0...15 only			
Power consumption	18.2 W			
Power supply voltage range	20.4...26.4V DC Class 2			

General Specifications – 2080-LC30-48AWB, 2080-LC30-48QWB, 2080-LC30-48QVB, 2080-LC30-48QBB

Attribute	2080-LC30-48AWB	2080-LC30-48QWB	2080-LC30-48QVB	2080-LC30-48QBB
I/O rating	Input 120V AC, 16 mA Output 2 A, 240V AC, general use	Input 24V DC, 8.8 mA Output 2 A, 240V AC, general use	Input 24V DC, 8.8 mA Output 24V DC, 1 A per point (Surrounding air temperature 30 °C) 24 V DC, 0.3 A per point (Surrounding air temperature 65 °C)	
Insulation stripping length	7 mm (0.28 in.)			
Enclosure type rating	Meets IP20			
Pilot duty rating	C300, R150		—	
Isolation voltage	250V (continuous), Reinforced Insulation Type, Outputs to Aux and Network, Inputs to Outputs Type tested for 60 s @ 3250V DC I/O to Aux and Network, Inputs to Outputs	250V (continuous), Reinforced Insulation Type, Outputs to Aux and Network, Inputs to Outputs Type tested for 60 s @ 720V DC, Inputs to Aux and Network, 3250V DC Outputs to Aux and Network, Inputs to Outputs	50V (continuous), Reinforced Insulation Type, I/O to Aux and Network, Inputs to Outputs Type tested for 60 s @ 720V DC, I/O to Aux and Network, Inputs to Outputs	
North American temp code	T4			

(1) Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Inputs

Attribute	2080-LC30-48AWB	2080-LC30-48QWB / 2080-LC30-48QVB / 2080-LC30-48QBB	
	120V AC Input	High-Speed DC Input (Inputs 0...11)	Standard DC Input (Inputs 12 and higher)
Number of Inputs	28	12	16
Voltage category	110V AC	24V DC sink/source	
Operating voltage	132V, 60Hz AC, max	16.8...26.4V DC	10...26.4V DC
Off-state voltage, max	20V AC	5V DC	
Off-state current, max	1.5 mA	1.5 mA	
On-state current, min	5 mA @ 79V AC	5.0 mA @ 16.8V DC	1.8 mA @ 10V DC
On-state current, nom	12 mA @ 120V AC	8.8 mA @ 24V DC	8.5 mA @ 24V DC
On-state current, max	16 mA @ 132V AC	12.0 mA @ 30V DC	
Nominal impedance	12 k Ω @ 50 Hz 10 k Ω @ 60 Hz	3 k Ω	3.74 k Ω
IEC input compatibility	Type 3		
Inrush current, max	250 mA @ 120V AC		
Input frequency, max	63 Hz		
AC input filter setting	8 ms for all embedded inputs (In Connected Components Workbench, go to the Embedded I/O configuration window to reconfigure the filter setting for each input group)		

Isolated AC Inputs (2080-LC30-48QWB, 2080-LC30-48QVB, 2080-LC30-48QBB) (Inputs 0...11)

Attribute	Value
On-state voltage, nom	12/24V AC @ 50/60 Hz
Off-state voltage, min	4V AC @ 50/60Hz
Operating frequency, nom	50/60 Hz

Outputs

Attribute	2080-LC30-48AWB / 2080-L30-48QWB	2080-LC30-48QVB / 2080-LC30-48QBB	
	Relay Output	Hi-Speed Output (Outputs 0...3)	Standard Output (Outputs 4 and higher)
Number of outputs	20	4	16
Output voltage, min	5V DC, 5V AC	10.8V DC	10V DC
Output voltage, max	125V DC, 265V AC	26.4V DC	26.4V DC
Load current, min	10 mA		
Load current, max	2.0 A	100 mA (high-speed operation) 1.0 A @ 30 °C 0.3 A @ 65 °C (standard operation)	1.0 A @ 30 °C 0.3 A @ 65 °C (standard operation)
Surge current, per point	Refer to Relay Contacts Ratings on page 180	4.0 A every 1 s @ 30 °C; every 2 s @ 65 °C ⁽¹⁾	
Current, per common, max	5 A	—	—
Turn on time/ Turn off time, max	10 ms	2.5 μs	0.1 ms 1 ms

(1) Applies for general purpose operation only. Does not apply for high-speed operation.

Relay Contacts Ratings

Maximum Volts	Amperes		Amperes Continuous	Volt-Amperes	
	Make	Break		Make	Break
120V AC	15 A	1.5 A	2.0 A	1800V A	180V A
240V AC	7.5 A	0.75 A			
24V DC	1.0 A		1.0 A	28V A	
125V DC	0.22 A				