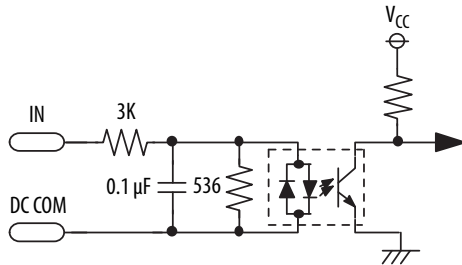


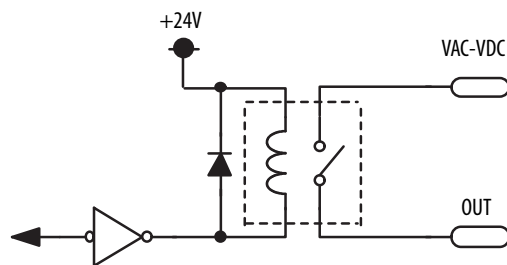
1769-IQ6X0W4

Compact combination 24V DC sink/source input and AC/DC relay output module

Simplified Input Circuit Diagram



Simplified Output Circuit Diagram



1769-IQ6X0W4

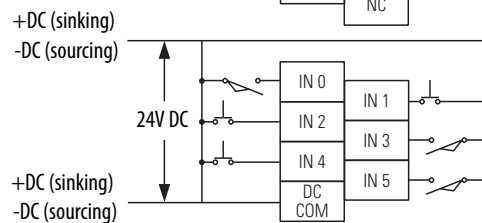
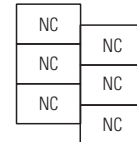
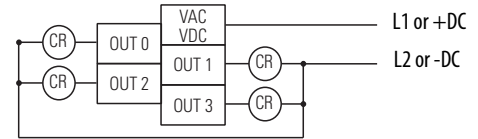


Table 43 - Technical Specifications - 1769-IQ6X0W4

Attribute	1769-IQ6X0W4
Current draw @ 5.1V	105 mA
Current draw @ 24V	50 mA
Heat dissipation, max	2.75 W
Off-state voltage, max	11V DC
Isolation voltage	Verified by one of the following dielectric tests: 1200V AC for 1 s or 1697V DC for 1 s, input group to bus, output group to bus, and input group to output group 75V DC working voltage (IEC Class 2 reinforced insulation)
Weight, approx	280 g (0.61 lb)
Dimensions (HxWxD), approx	118 x 35 x 87 mm (4.65 x 1.38 x 3.43 in.) Height with mounting tabs 138 mm (5.43 in.)
Slot width	1
Module location	DIN rail or panel mount
Power supply	1769-PA2, 1769-PB2, 1769-PA4, 1769-PB4
Power supply distance rating	8 modules
Terminal screw torque	0.68 N•m (6 lb•in)
Retaining screw torque	0.46 N•m (4.1 lb•in)
Wire size	(22...14 AWG) solid (22...16 AWG) stranded
Wire type	Cu-90 °C (194 °F)
IEC input compatibility	Type 1+
Replacement terminal block	1769-RTBN18 (1 per kit)
Replacement door label	1769-RL1 (2 per kit)

Table 43 - Technical Specifications - 1769-IQ6XOW4

Attribute	1769-IQ6XOW4
Replacement door	1769-RD (2 per kit)
Vendor ID code	1
Product type code	7
Product code	66
Enclosure type rating	None (open-style)

Table 44 - 1769-IQ6XOW4 Input Specifications

Attribute	1769-IQ6XOW4
Inputs	6
Voltage category	24V DC sink/source
Operating voltage range	10...30V DC @ 30 °C (86 °F) 10...26.4V DC @ 60 °C (140 °F)
Delay, on	8 ms
Delay, off	8 ms
Off-state voltage, max	5V DC
Off-state current, max	1.5 mA
On-state voltage, min	10V DC
On-state current, min	2.0 mA
Inrush current, max	250 mA
Input impedance, nom	3 k Ω
IEC input compatibility	Type 3

Table 45 - 1769-IQ6XOW4 Output Specifications

Attribute	1769-IQ6XOW4
Outputs	4
Voltage category	AC/DC normally open relay contacts
Operating voltage range	5...265V AC 5...125V DC
Delay, on	10 ms
Delay, off	10 ms
Off-state leakage, max	0 mA
On-state current, min	10 mA @ 5V DC
Current per point, max	2.5 A
Current per module, max	8 A

Table 46 - Relay Contact Ratings - 1769-IQ6XOW4

Volts, max	Continuous Amps per Point, max	Amperes ⁽¹⁾		Voltamperes		NEMA ICS 2-125
		Make	Break	Make	Break	
240V AC	2.5 A	7.5 A	0.75 A	1800VA	180VA	C300
120V AC		15 A	1.5 A			
125V DC	1.0 A	0.22 A ⁽²⁾		28VA		R150
24V DC	2.0 A	1.2 A ⁽²⁾		28VA		—

- (1) If you connect surge suppressors across your external inductive load, you extend the life of the relay contacts.
- (2) For DC voltage applications, the make/break ampere rating for relay contacts can be determined by dividing 28VA by the applied DC voltage. For example, $28 \text{ VA} / 48 \text{ V DC} = 0.58 \text{ A}$. For DC voltage applications less than 48V, the make/break ratings for relay contacts cannot exceed 2 A.

Table 47 - Certifications - 1769-IQ6X0W4

Certification ⁽¹⁾	1769-IQ6X0W4
c-UL	C-UL certified (under CSA C22.2 No. 142) UL 508 listed Class I, Division 2 Group A,B,C,D Hazardous Locations (UL 1604, C-UL under CSA C22.2 No. 213)
CE	CE compliant for all applicable directives
C-Tick	C-Tick compliant for all applicable directives

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