rexroth
A Bosch Company

I/O Module

I/O Card, Relay Card

Label, Terminals Descriptions, Wiring

Product Insert

R912006326
Edition 03

I/O Card Terminals Label

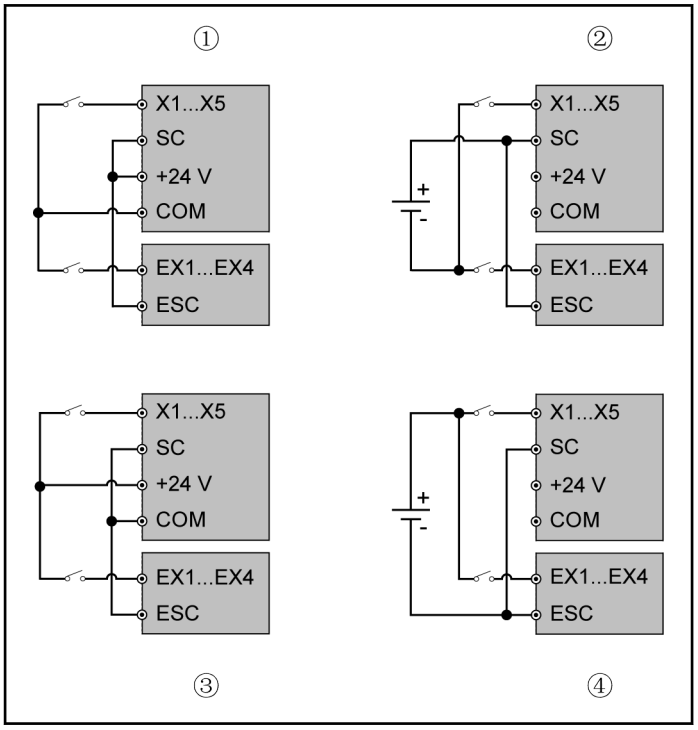
I/O card terminals label

I/O Card Terminals Descriptions

Terminal	Signal requirement	Description
EX1... EX4	Multi-function digital inputs: 24 VDC, 8 mA / 12 VDC, 4 mA with opto-electric couplers	See parameter group H8
ESC	–	Isolation optocouplers shared connection
EAI	Voltage input range: -10...10 V* Voltage input impedance: > 20 kΩ Resolution: 1/1,000 Current input range: 0/4...20 mA Current input impedance: < 500 Ω Resolution: 1/1,000	The power supply is +5 V and +10 V from the frequency converter See parameter group H8
GND	–	Analog terminals shared connection, isolated from ESC
EAO	Voltage output range: 0...10 V Voltage output load impedance: > 2 kΩ Current output range: 0...20 mA Current output load impedance: < 500 Ω	See parameter group H8
EDOa, EDOb	Open collector output: Max. 30 VDC, 50 mA	See parameter group H8 ESC is reference
ETa, ETc	Rated capacity of relay outputs: 250 VAC, 3 A; 30 VDC, 3 A	See parameter group H8 ETb is the relay outputs shared connection
ETb		

* For -10 V input, external power supply must be provided. A frequency converter **ONLY** provides +5 V and +10 V.

I/O Card Terminals Wiring



I/O card terminals wiring

①: NPN with internal power supply
②: NPN with external power supply
③: PNP with internal power supply
④: PNP with external power supply

- X1...X5, SC, +24 V, COM are control terminals of the frequency converter, EX1...EX4, ESC are control terminals of the I/O card.
- Details on wiring of EAI, EAO, EDOa and EDOb, see **Quick Start Guide** of frequency converter.

Relay Card Terminals Label

Relay card terminals label

Relay Card Terminals Descriptions

Terminal	Signal requirement	Description
R1a, R1c, R1b	Rated capacity: 250 VAC, 3 A 30 VDC, 3 A	See Group H9 R1b, R2b, R3b, R4b are relay outputs shared connections
R2a, R2c, R2b		
R3a, R3c, R3b		
R4a, R4c, R4b		

☞ Details on wiring and noise suppression, see **Quick Start Guide** of frequency converter.

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