

FAC90401_0000

Flexy IO connector

4.4.2 Connector Pin Out

Label	Description
AI-	Ground of the analog input (isolated)
AI1	Analog Input 1
AI2	Analog Input 2
AI3	Analog Input 3
AI4	Analog Input 4
DI-	Ground of the digital input (isolated)
DI1	Digital Input 1
DI2	Digital Input 2
DI3	Digital Input 3
DI4	Digital Input 4
DI5	Digital Input 5
DI6	Digital Input 6
DI7	Digital Input 7
DI8	Digital Input 8
R11	Relay 1 NO terminal 11
R14	Relay 1 NO terminal 14
R21	Relay 2 NO terminal 21
R24	Relay 2 NO terminal 24



Fig. 5 Connector Pin Out

i Terminal numbers R11, R14, R22 and R24 are derived from 11 (Common) and 14 (NO) that refer to the Single Pole, Single Throw, Normally Open (SPST NO) relay terminal numbering as per standard EN 50005.

i The maximal tightening torque is 0.25Nm.

4.4.3 Typical Wiring Diagram

As example, in this wiring diagram the AI dip switch is set:

- in 0-10 VDC for AI1 (dip switch selector: open)
- in 4-20 mA for AI2 (dip switch selector: close)

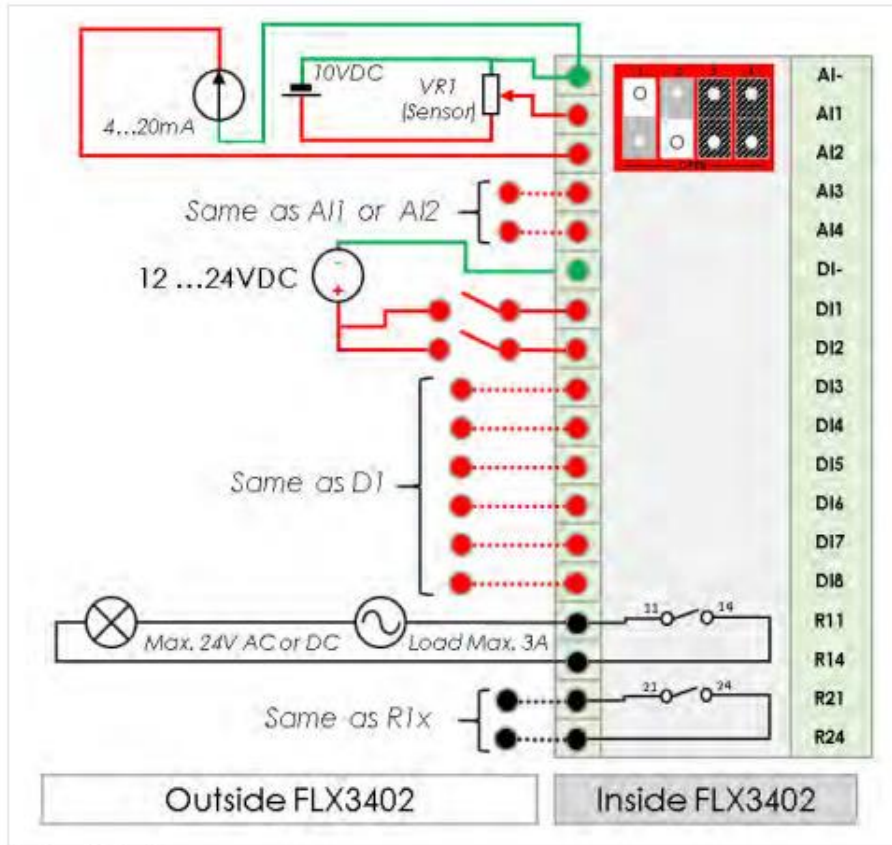


Fig. 6 Wiring Diagram

4.4.4 Analog Inputs (4)

Characteristic	Value
AI Terminal count	5 (4 channels + common ground)
Isolation between AI	None (common ground)
AI rated input range (based on dip switch settings, see Analog Inputs Configuration, p. 9)	Rated 0 to 10 VDC (max. -0.6 V to 12 VDC) Rated 4 to 20 mA (max. 0 mA to 25 mA)
AI max. input range	Over-voltage protection
AI max. input impedance	< 260Ω
AD converter resolution	16 bits
Sampling rate	4 sps
Max. gain error	0,40%
Input low pass filter cut-off	@ 1.3 Hz
Functional isolation	1.5 kV