

2.21 QX81 DC Input Module (Negative Common Type)

Specifications		Type	DC Input Module (Negative Common Type)	
		QX81	Appearance	
Number of input points		32 points		
Isolation method		Photocoupler		
Rated input voltage		24VDC (+20/-15%, ripple ratio within 5%)		
Rated input current		Approx. 4mA		
Input derating		Refer to the derating chart.		
ON voltage/ON current		19V or higher/3mA or higher		
OFF voltage/OFF current		11V or lower/1.7mA or lower		
Input impedance		Approx. 5.6kΩ		
Response time	OFF to ON	1ms/5ms/10ms/20ms/70ms or less (CPU parameter setting) * 1 Initial setting is 10ms.		
	ON to OFF	1ms/5ms/10ms/20ms/70ms or less (CPU parameter setting) * 1 Initial setting is 10ms.		
Dielectric withstand voltage		560VAC rms/3 cycles (altitude 2000m (6557.38ft.))		
Insulation resistance		10MΩ or more by insulation resistance tester		
Noise immunity		By noise simulator of 500Vp-p noise voltage, 1μs noise width and 25 to 60Hz noise frequency		
		First transient noise IEC61000-4-4: 1kV		
Protection of degree		IP2X		
Common terminal arrangement		32 points/common (common terminal: 17, 18, 36)		
Number of I/O points		32 (I/O allocation is set as a 32-points input module)		
Operation indicator		ON indication (LED)		
External connections		37-pin D-sub connector		
Applicable wire size		0.3mm ² (For A6CON1E) * 2		
External wiring connector		A6CON1E, A6CON2E, A6CON3E (optional)		
Applicable connector/terminal block conversion module		A6TBX36-E, A6TBX54-E, A6TBX70-E		
5VDC internal current consumption		75mA (TYP. all points ON) (0.08A is shown on the rating plate of the module.)		
Weight		0.16kg		

QX81

0 1 2 3 4 5 6 7

8 9 A B C D E F

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24VDC
4mA

Derating Chart	Pin-Outs	Pin No.	Signal No.	Pin No.	Signal No.
	<p>Module front view</p>	1	X00	9	X10
		20	X01	28	X11
		2	X02	10	X12
		21	X03	29	X13
		3	X04	11	X14
		22	X05	30	X15
		4	X06	12	X16
		23	X07	31	X17
		5	X08	13	X18
		24	X09	32	X19
		6	X0A	14	X1A
		25	X0B	33	X1B
		7	X0C	15	X1C
		26	X0D	34	X1D
		8	X0E	16	X1E
		27	X0F	35	X1F
		17	COM	37	Vacant
		36	COM	19	Vacant
		18	COM		

External Connections

* 1: For the setting method, refer to the section 1.3.1.

* 2: When using A6CON2E or A6CON3E, refer to Chapter 7.