

2. Technical data

2.1 Technical data of the hardware

Digital inputs

Total	4
Nominal voltage	24V
Low range :	- 30 ... +5V
High range :	+15 ... +30V
Source operation only	for safety reasons closed contacts should be used.
Input current (typical)	6.5 mA
Switching type	galvanically connected
Input filter	< 1 ms

Digital outputs

Total	4
Current range	0.5A each in range 10 ... 32 VDC, residual ripple max. 10%
Galvanic isolation	no
Potential drop	max. 0.3V at 0.5A
Logic	positive (positive switching)
Output delay	typically 50 μ s, max 100 μ s at ohmic load

Power supply

Internal supply from PCD1/2 bus	5 VDC, 20 ... 45 mA
External by user for all outputs	24VDC (10 ... 32 VDC), max. 2A smoothed ripple max. 10%

Operating conditions

Ambient temperature	operation :	0 ... +50°C without forced ventilation
	storage :	-20 ... +85°C
Interference immunity	CE mark	according to EN 50081-1 and EN 50082-2

Ordering details

PCD2.H210	Motion control module for 1 stepper motor axis
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LED displays

Total	8
LED 0 :	*) Voltage at input 0 (Emergency stop)
LED 1 :	*) Voltage at input 1 (LS1)
LED 2 :	*) Voltage at input 2 (REF)
LED 3 :	*) Voltage at input 3 (LS2)
LED 4 :	Voltage at output 0 : PUL
LED 5 :	Voltage at output 1 : DIR
LED 6 :	Voltage at output 2
LED 7 :	Voltage at output 3

*) status inverted when used as limit switch

Programming With S7 software, base on direct periphery access.

2.2 Electrical specification

Internal power consumption

+5V	20 ... 45 mA
Uext	0 ... 10 mA (without load current)

External power supply

Terminals +/-	10 ... 32 VDC smoothed, residual ripple max. 10% TVS diode 39V \pm 10% max. 2A for outputs, not protected against wrong polarity!
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Digital inputs	4 digital inputs (E0 ... E3) (see chapter 2.1)
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Digital outputs	4 digital outputs (A0 ... A3) (see chapter 2.1)
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2.3 Function specific data

Number of systems	1
Positioning distance (counting range)	0 to 16 777 215 (24 Bit)
Frequency ranges (selectable)	9.5 ... 2 431 Hz 19 ... 4 864 Hz 38 ... 9 727 Hz 76 ... 19 454 Hz
Acceleration	0.6 ... 1 224 kHz/s non-linear range division, depending on the selected frequency range (see table in chapter 7)
Profile generator	with symmetrical acceleration and braking ramps.
Data protection	All data in this module is volatile