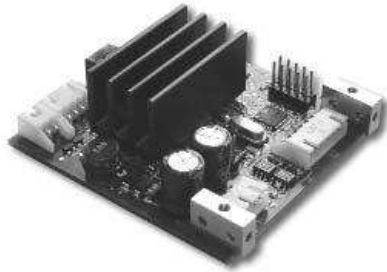


SMCI21

SMCI21 Compact positioning controller for two stepper motors up to 0.9 A/phase



Technical data:

Operating voltage:	<u>DC 12 V to 32 V</u>
max. phase current:	<u>0.7 A / phase (with 2 motors in microstep mode)</u>
Operating mode:	Positioning, speed operation
Operating mode:	1/1, 1/2, 1/4, 1/8, 1/16
Step adjustment:	via RS485
Step frequency:	10 kHz, automatic microstep rate adjustment
Current reduction:	adjustable via RS485
Input signals:	HTL level 24 V, low < 3 V, high > 12 V
LED:	green power on LED
Temperature range:	0 to + 40 °C
Connection type:	JST connector, type XH
Attachment method:	4 * M3
Weight:	50 g

Attention: The supply voltage **must** have a charging capacitor with at least 6800 µF so that the permitted voltage is not exceeded during the braking procedure.

Voltage supply (X1)

Pin	Designation	Remark
1	Operating voltage	$U_b = 12...32$ V
2	Optional +5V input	Not taken into consideration in standard version.
3	GND	

RS485 connection (X2)

Pin	Designation	Remark
1	A	RS-485 Rx+
2	B	RS-485 Rx-
3	Y	RS-485 Tx+
4	Z	RS-485 Tx-
5	Optional +5V output	For supply from external RS485 adapter, current load $I_{max}=100$ mA, short circuit-proof
6	GND	

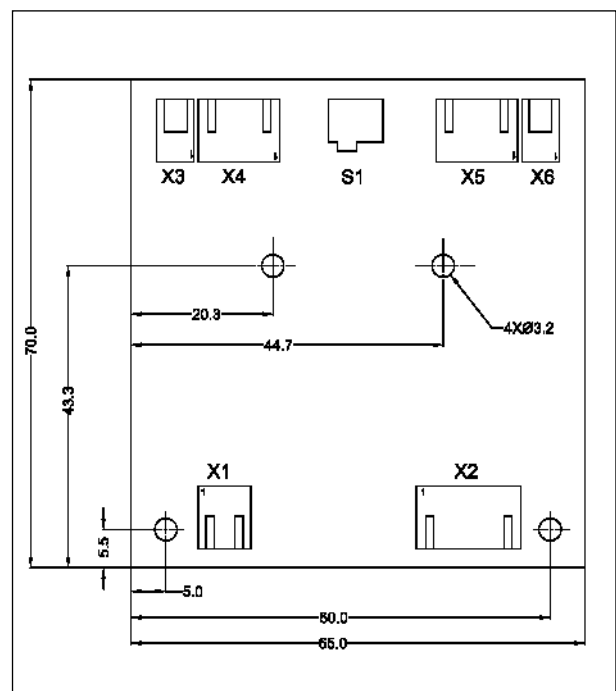
Inputs (X3 and X6)

Pin	Designation	Remark
1	Ext.reference switch	H-level = $12...U_b$ V L-level = $0...3$ V $I = 3$ mA No galvanic separation
2	Start input	H-level = $12...U_b$ V L-level = $0...3$ V $I = 3$ mA No galvanic separation

Motor connection (X4 and X5)

Pin	Designation
1	Motor coil A +
2	Motor coil A -
3	Motor coil B +
4	Motor coil B -

Dimensions (mm)



Input wiring

