Positioning controller with encoder input, SMCI32

Technical data

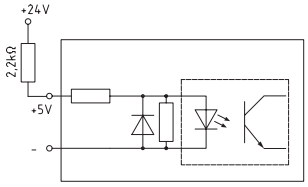
Operating voltage:	DC 24 to 48 V
Phase current:	Nominal current 2A, adjustable up to max. 3 A/phase
Interface:	RS485 or USB
Operating mode:	Position, speed, flag position, clock direction, analog, joystick
Step resolution:	1/1, 1/2, 1/4, 1/5, 1/8, 1/10, 1/32, adaptive (1/128)
Step frequency:	0 to 50kHz in the clock/direction mode, 0 to 25 kHz in all other modes
Inputs:	6 optocoupler inputs (5V)
Outputs:	3 transistor outputs (open collector)
Position monitoring:	Automatic error correction up to 0.9°
Current drop:	Adjustable 0- 100%
Protection circuit:	Overvoltage, undervoltage and heatsink temperature > 80 °C
Temperature range:	0 to + 40°C

* Phoenix connectors are included in the delivery.

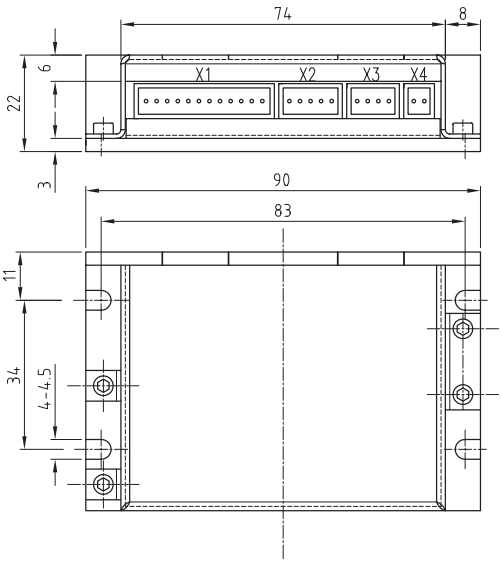
Note: A charging capacitor of at least 4,700 µF (Z-K4700/50) **must** be provided on the supply voltage so that the admissible voltage is not exceeded during the braking process.

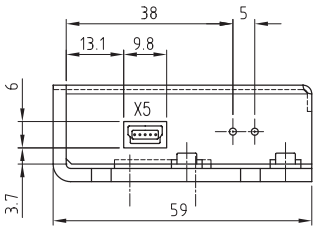
Input circuits

Optocoupler



Outline drawing (mm)





X1-X4: Phoenix connectors Type MICRO COMBICON

X5: Mini-USB, type B (SMCI32-1) Sub-D 9-pole (SMCI32-2)

Inputs/Outputs (X1)

Pin	Function
1	Input1
2	Input2
3	Input3
4	Input4
5	Input5
6	Input6
7	Signal GND
8	Output 1
9	Output 2
10	Output 3
11	Analogue
12	GND

Encoder (X2)

Pin	Function
1	+5V
2	CH-B
3	CH-A
4	INDEX
5	GND

Motor connection (X3)

Pin	Function
1	Motor coil A
2	Motor coil A\
3	Motor coil B
4	Motor coil B\

Supply (X4)

Pin	Function
1	UB24-48V
2	GND

SMCI32-2: RS485 (X5)

Pin	Function
1	NC
2	RX+
3	+5V
4	TX+
5	N.C.
6	N.C.
7	RX-
8	GND
9	TX-

SMCI32-1: USB (X5)
USB standard

Order number

SMCI32 -
1= USB
2= RS485