HNP Mikrosysteme

Modular series
Controller S-KB-4
For continuous delivery

- Pump controller for continuous delivery
- Good value 2-Q-DC servo amplifier
- For brushless DC-motor with digital hall sensors
- Compact aluminum housing
- Speed set with external voltage signal or external potentiometer
- Current delimiter
- Screw terminal for plug-in of mzr-pump

The controller S-KB-4 is recommended for continuous flow control in combination with micro annular gear pump mzr-7241.

The 2-Q-DC servo amplifier enables to control the constancy of flow rate via motor speed using the hall sensors of the brushless DC-motor. Speed can be adjusted with an external voltage signal (0 … 10 V).

Technical data

Control	PI regulator for motor speed
Supply voltage U_B	24 V DC (5 – 28 V)
Max. continuous output current	4 A
Max. peak output current	6 A
Speed	500 – 6000 rpm
Voltage connector	screw terminal
Pump connector	screw terminal
Input for motor speed »U_in«	voltage signal 0 … 10 V external potentiometer 10 kΩ
Direction input »DIR«	Right direction: low (0 … 1 V) Left direction: high (4 V … U_B)
Error output »FG«	Open collector max. U_B / 15 mA No Error: high level
Operating temperature range	0 … +60 °C
Protective class	IP 20
Dimensions (L x W x H)	approx. 65 x 58 x 22 mm
Weight	approx. 160 g

Subject to technical changes.

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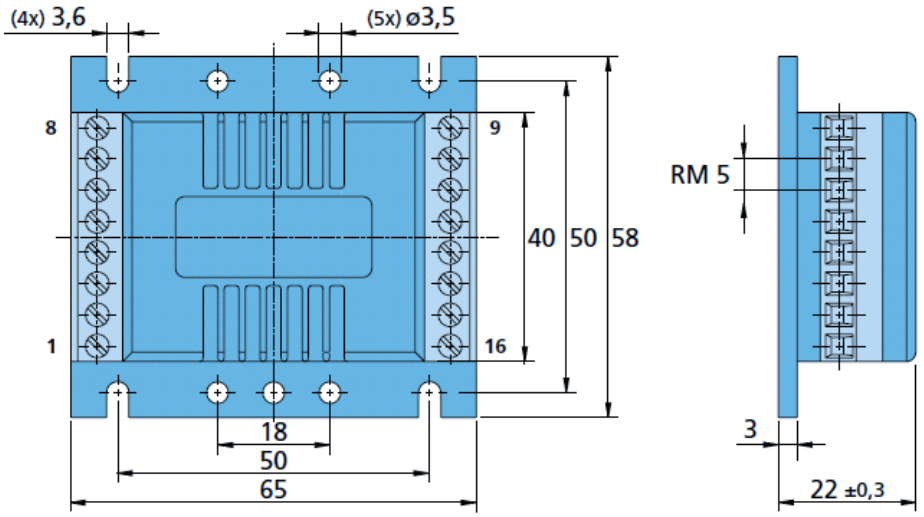
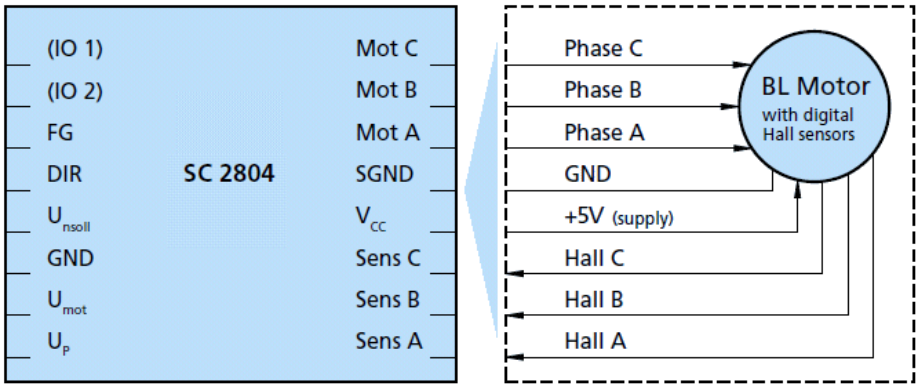
Dimensions



Subject to technical changes.

Connection diagram



Item number

66 04 01 26	controller S-KB-4 for micro annular gear pump mzr-7241
66 04 01 27	programming adapter to configure the controller S-KB-4

05/13

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