

Product information

S-KG · Controller



Description

The controller S-KG is recommended for continuous flow control in combination with the micro annular gear pumps mzr-2521, mzr-2921, mzr-4622, mzr-2542 and mzr-2942. The 4-Q-DC servo amplifier enables to control the constancy of flow rate via motor speed using the encoder mode of operation. Speed can be adjusted either with an external voltage signal (0...10 V), external current signal (4...20 mA) or an external potentiometer.

Advantages

- Pump controller for continuous delivery
- Good value 4-Q-DC servo amplifier
- Digital encoder regulator
- Compact plastic housing
- Speed set with external voltage signal, external current signal or external potentiometer
- Current delimiter
- 6-pole pin headers for plug-in of mzr-pump
- Two colored LED status indicator

Technical data

Controller	PID controller for motor speed
Supply voltage	24 V DC (10-30 V)
Max. continuous output current	0.5 A
Max. peak output current	1 A
Velocity range	100 - 6,000 rpm
Voltage	screw terminal
Pump connector	pin headers, 6-pole
Input for motor speed "An_in"	voltage signal 0 – 10 V; current signal 4 – 20 mA; external potentiometer 10 k?
Enable input "Enable"	Enable: low (0 ... 0.5 V); Disable: high (4 V ... UB)
Direction input "L/R"	Right direction: low (0 ... 0.5 V); Left direction: high (4 V ... UB)
Speed output "Enc_out"	Open collector max. UB / 50 mA
Error output "Error"	Open collector max. UB / 50 mA; no Error: high level
Operating temperature range	0 ... +50 °C (+122 °F)
Protection class	IP 20
Dimensions (L x W x H)	approx. 68 x 57 x 24 mm
Weight	approx. 35 g
Remarks	Subject to technical changes.

Notice

Even if single parameters are within the indicated performance range of technical data, certain parameter combinations may not be achievable. Single parameters may exceed their indicated performance range under adequate circumstances. For detailed evaluation please contact HNP Mikrosysteme. Actual performance may vary. Specifications are subject to change without notice.

Patents and trademarks

Micro annular gear pumps (and housings) are protected by assigned patents: EP 1 354 135 B1; US 7,698,818 B2; DE 10 2011 001 041 B4; CN 103 348 141 B; US 10,012,220 B2; CN 103 732 921 B; US 9,404,492 B2; US 6,520,757 B1.

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