Actuator with integrated
digital positioner

StG 2040/2080-PD-CAN

DATA SHEET



Description

HEINZMANN StG 2040-PD and StG 2080-PD actuators with integrated digital positioner can be used for a wide range of applications. This positioning system consists of an actuator StG 2040 or StG 2080 and a digital electronic position control. This results in excellent dynamic characteristics and precise positioning in both working directions that makes this system best for gas engine applications, for example.

HEINZMANN's digital control systems are acknowledged for their high flexibility, which meets all customer needs and requirements as well as their long life cycle and proven reliability.

You can parametrise the StG 2040-PD and StG 2080-PD with HEINZMANN's powerful software package DcDesk or a programmer.

The design provides a compact solution that is interchangeable with other proprietary units. The extensive HEINZMANN worldwide network of more than 30 branches, representatives and authorised dealers ensures fast responsive and professional service wherever our customers are.

Specification

Standard setpoint adjustment requires a signal 4 ... 20 mA.

Actuators position feedback signal is given with 4 ... 20 mA.

Alternatives optional.

Version

Version with CAN communication available - StG 2040/2080-PD-CAN

Monitoring

All alarms result in the common alarm output.

- Setpoint will be supervised
- Actuator current limitation to protect it against overheating
- Difference between actuator setpoint and current value: Activated when a significant difference lasts for a given time (e.g. when linkage is blocked)

Features

- Compact system setup and size envelope
- High reliability
- High torque working in both directions
- Very low current consumption in steady state
- Brushless design, for hazardous locations
- Any mounting position permissible
- Maintenance-free due to long duration lubricants

Application range

- Fuel pumps
- Throttle valves
- Mixers

Technical data

Electrical connections

Voltage supply	24 VDC / 5 A; operating range: 9 ... 33 VDC
Position setpoint	4 ... 20 mA; input resistance: 240 Ohm
Actual position value	4 ... 20 mA; max. load resistor: 350 Ohm
Stop input	Binary or analogue input, optionally isolated, with current loop > 4 mA
Common alarm output	300 mA, optionally isolated, with current loop < 10 mA
Wiring	Plug (e.g. CANNON type), cord optional

Technical data

Ambient temperature	-25 ... +90°
Effective rotation at output shaft	68°
Max. torque (for 20 sec.)	StG 2040-PD: 6.6 Nm StG 2080-PD: 7.8 Nm
Max. torque in steady state condition	StG 2040-PD: 3.3 Nm StG 2080-PD: 4.6 Nm
Response time	StG 2040-PD: < 150 ms StG 2080-PD: < 90 ms
Degree of protection	IP65
Vibration	+/- 1 mm at 1 ... 20 Hz, max. 0.24 m/s at 21 ... 63 Hz max. 9 g at 64 ... 2000 Hz
Shock	30 g, 11 ms half-sine wave
Humidity	Premissable humidity up to 95 % at 55 °C
Compliances	CE, further compliances on request
Weight	StG 2040-PD: approx. 6.5 kg StG 2080-PD: approx. 8.6 kg

Certificates

On request

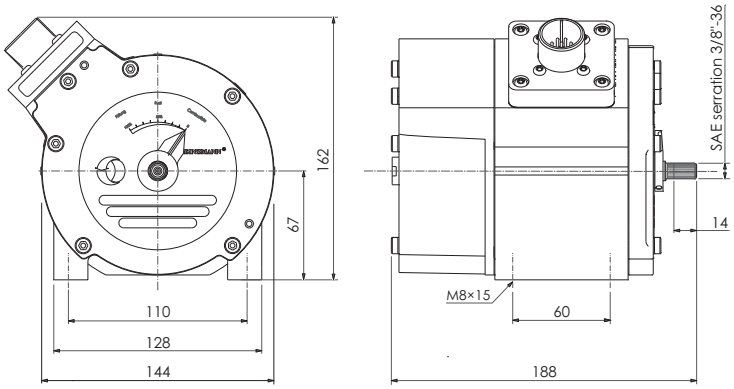
For further information see relevant manuals please:

DG 10 001-e Digital Positioning System 2000

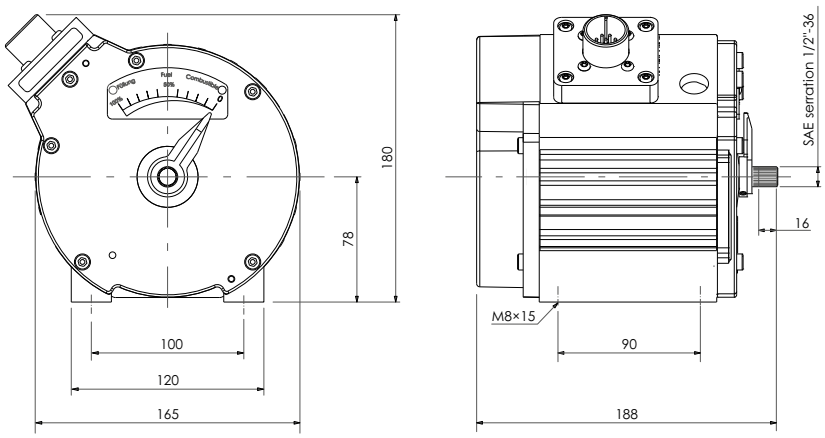
DG 18 003-e CAN Version

Dimensions

StG 2040-PD



StG 2080-PD



Heinzmann GmbH & Co. KG I Am Haselbach 1 I 79677 Schönau I Germany I Tel. +49 7673 8208-0 I Fax +49 7673 8208-188
info@heinzmann.de I **www.heinzmann.com**

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