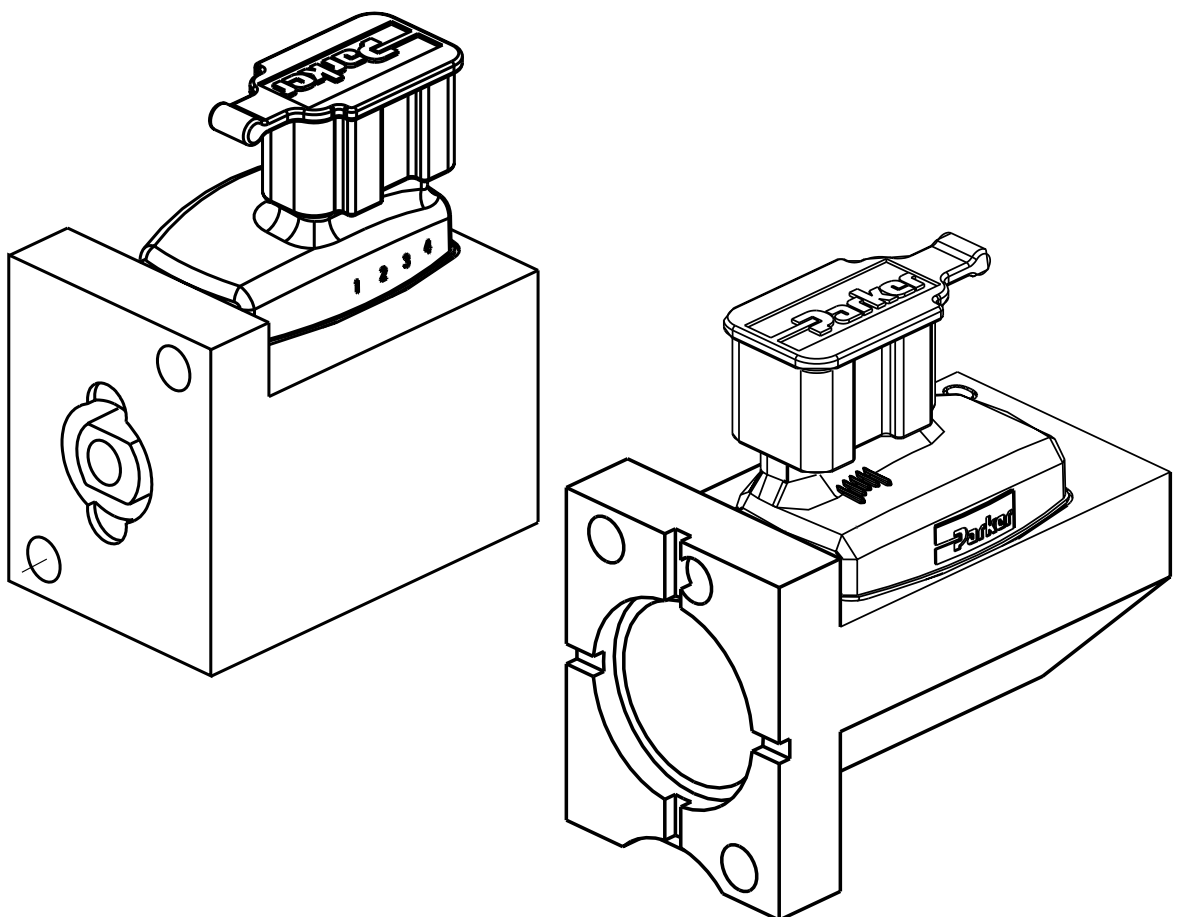




Spool Position Sensor

Installation

February 2004



Application

SSP1 is a new generation of spool position monitoring modules for directional control valves.

Weather resistance

The enclosure is designed to make the module rugged but light. The SSP1 is designed for a wide range of temperatures for outdoor environment.

The drainage hole on the backside of the housing is covered with a sticker for delivery and shall be punched to open up the drainage if the main valve is assembled with the SSP1 downwards.

Properties

Flexibility

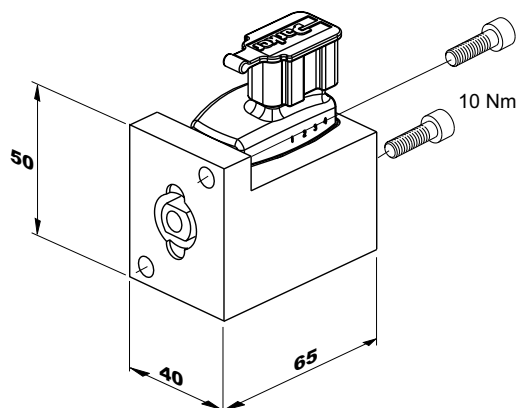
The SSP1 has an analogue output, resulting in an optimal usage of the module. The same electronics can be used for different types of valves, both hydraulically and manually operated.

Spool position output

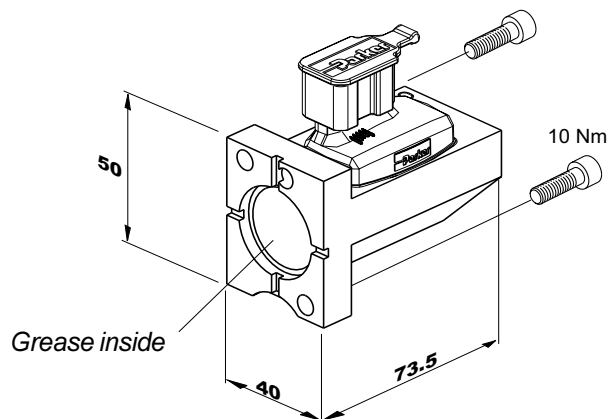
Type	Prorortional
Signal range	0.5 - 4.5 Volt
Resolution	1.25 mV

Voltage tolerances in spool position:

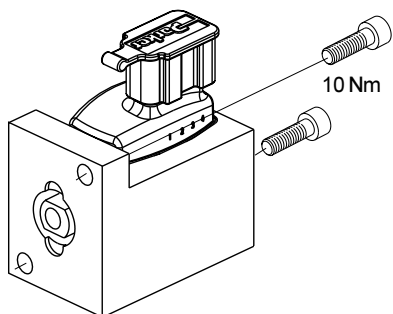
End position A-side	$0.5 +0.3 \text{ V} / -0.15 \text{ V}$
Mid position	$2.5 \pm 0.15 \text{ V}$
End position B-side	$4.5 +0.15 \text{ V} / -0.3 \text{ V}$



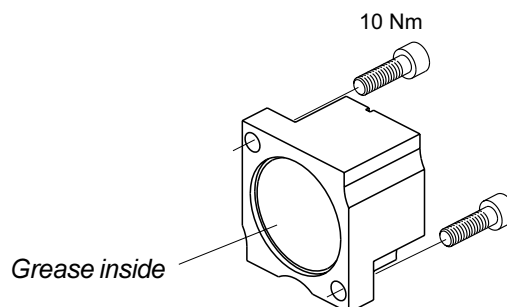
P70 - EC version - 398000K205



P70 - C version - 398000K860



F130CF/CP - C version - 301000K097

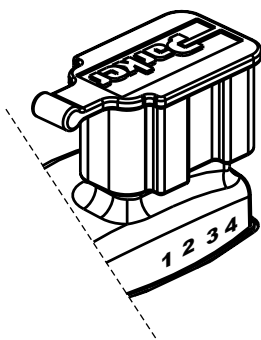


Adapter F130CF/CP - C version - 301000K803

Calibration

The unit is calibrated prior to delivery from us in order to obtain the correct function on your equipment. Tolerances, shown on page 2 should be considered at the final setting of your control system.

Connecting



1. *Voltage output*
2. *Not in use*
3. *Voltage supply*
4. *Ground*

Safety

All inputs are protected against EMI and voltage transients. Automotive connectors are used that fulfill mechanical and electrical demands.

Environmental protection

EMI

EN 61000-4-3
EN 50204-4-3
ISO 7637-2, -3 (pulse 1a, 3a, 3b, 4)

ESD

EN 61000-4-2

Mechanical environment

IEC 68-2-64 Fh (random 10-250 Hz)
IEC 68-2-27 Es (Schock 11 ms)
IEC 68-2-29 Eb (bump 6 ms)

Climat environment

IEC 60068-2-18 Rb2 (water)
IEC 68-2-30 Db var. 1 (damp, cyclic)
IEC 68-2-3 Ca (damp, heat steady state)
IEC 68-2-2 Bb (heat)
IEC 68-2-1 Ab (cold)
IEC 68-2-14 Nb (change of temperature)

Chemical environment

IEC 68-2-52 Kb (salt mist, cyclic)

General

Weight:	0.25 Kg
Operating temperature:	- 40 - + 70 °C
Protection:	Outdoor use
Voltage supply:	6.5 - 32 VDC
Current consumption	30 mA (28 VDC) 30 mA (14 VDC)
Voltage output:	0.5 - 4.5 VDC
Resolution:	1.25 mV
Tightening torque:	10 Nm

Please contact our sales representative:



Parker Hannifin AB
Mobile Controls Division
SE-501 78 Borås
Sweden
Tel +46 33 700 52 00
Fax +46 33 12 11 43
www.parker.com

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