

TECHNICAL INFORMATION

Sauer Danfoss PVG/PVE Series Proportional Valve Driver Dual Input

Danfoss Adapter Driver Board (Part# DFA2-02)



OUT1: PROPORTIONAL CONTROL OUTPUT 1
EN1: VALVE ENABLE OUTPUT 1
OUT2: PROPORTIONAL CONTROL OUTPUT 2
EN2: VALVE ENABLE OUTPUT 2

IN1: PROPORTIONAL CONTROL INPUT 1
IN2: PROPORTIONAL CONTROL INPUT 2

Applications

- Configured for Joystick Type Control Inputs (JSM, JSL Series Joysticks, Single Axis Proportional Slider Modules)
- Specifically Designed to Control Sauer Danfoss PVG/PVE Series Proportional Valves

Features

- Wide Supply Range +6V to +30V
- Power Supply and Control Input Protection
- High Current Valve Enable Output
- 300ms Ramp Rate on Control Signal Output
- Fault Detection

DFA2-02 Specification

Items	Parameter	Function	Operating Range			Unit
			Min	Typ	Max	
Electrical:						
+12/24VDC	Supply Voltage		6	12, 24	30	V
Inputs:						
			$V_{IN(MIN)}$	$V_{IN (NEUTRAL)}$	$V_{IN(Max)}$	
IN1	Control Input 1	Analog Proportional Input 1	0.5 (+/-0.05)	2.5	4.5 (+/-0.05)	V
IN2	Control Input 2	Analog Proportional Input 2	0.5 (+/-0.05)	2.5	4.5 (+/-0.05)	V
$V_{IL(OFF)}$	Input Under Voltage	Low Safety Shut-down Input Voltage		≤ 2.5		V
$V_{IH(OFF)}$	Input Over Voltage	High Safety Shut-down Input Voltage		≥ 4.75		V
Outputs:						
			$V_{OUT(MIN)}$	$V_{OUT(NEUTRAL)}$	$V_{OUT(Max)}$	
OUT1	Control Output 1	Analog Proportional Output 1	25 (+/-5)	50 (+/- 2)	75 (+/-5)	%Vs
OUT2	Control Output 2	Analog Proportional Output 2	25 (+/-5)	50 (+/- 2)	75 (+/-5)	%Vs
I _{OUT1, OUT2}	Control Current	Control Signal Output Current			10	mA
EN1	Valve Enable Output 1	Vs if either IN1 or IN2 is activated, 0V otherwise	0		+Vs	V
EN2	Valve Enable Output 2	Vs if either IN1 or IN2 is activated, 0V otherwise	0		+Vs	V
$V_{EN1, EN2}$	Enable Voltage	Enable Signal Output Voltage	0	Vs	Vs	V
$I_{EN1, EN2}$	Enable Current	Enable Signal Output Current			2.5	A
Reference Power Supply:						
			Min	Typ	Max	
V _{OUT}	Input Control Voltage	Input Control Device Supply Voltage	4.75	5	5.25	V
I _{OUT}	Input Control Current	Input Control Device Supply Current	2		30	mA
Environmental Specifications:						
Operating Temperature Range						-40 to +85 °C

