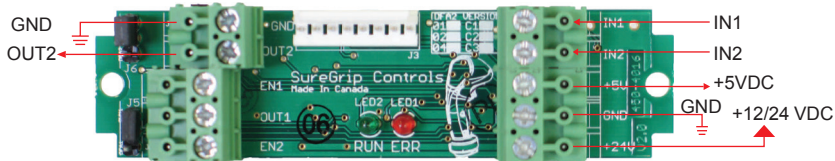


TECHNICAL INFORMATION

Caterpillar ECM Compatible Driver Board

Danfoss Adapter Driver Board (Part# DFA2-C1)



OUT2: PWM CONTROL OUTPUT

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

Applications

- Configured for Variable Voltage Module Type Control Inputs
- Specifically Designed to Interface to Caterpillar ECM's

Features

- Wide Supply Range +6V to +30V
- Power Supply and Control Input Protection
- Variable PWM Control Signal Output

DFA2-C1 Specification

Items	Parameter	Function	Operating Range			Unit
			Min	Typ	Max	
Electrical:						
+12/24VDC	Supply Voltage		6	12, 24	30	V
Inputs:			$V_{IN(MIN)}$		$V_{IN(MAX)}$	
IN1	Control Input 1	Analog Proportional Input 1 (controls OUT2 50%- 80%)	0.8 (+/-0.05)		4.2 (+/-0.05)	V
IN2	Control Input 2	Analog Proportional Input 2 (controls OUT2 50%-20%)	0.8 (+/-0.05)		4.2 (+/-0.05)	V
Outputs:			Duty Cycle OUT(MIN)	Duty Cycle OUT(NEUTRAL)	Duty Cycle OUT(MAX)	
OUT1	Control Signal Output 1	N/A				
OUT2	Control Signal Output 2	PWM Control Output	20 (+/-2.5)	50 (+/-2.5)	80 (+/-2.5)	Duty Cycle (%)
f _{OUT2}	PWM Output Frequency	Fixed PWM Frequency of 500Hz		500 (+/-5%)		Hz
I _{OUT2}	Control Output Current	Control Signal Output Current			10	mA
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