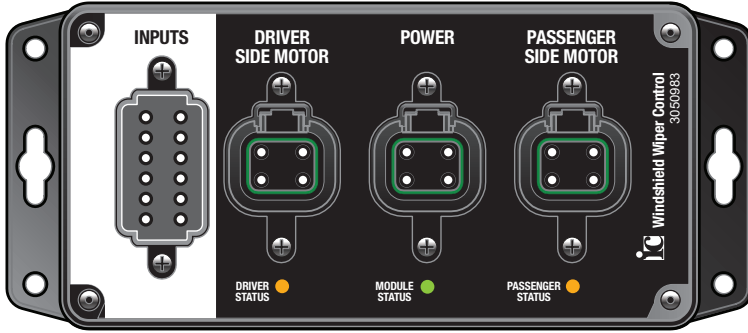




3050983 Dual Motor Windshield Wiper Control Module



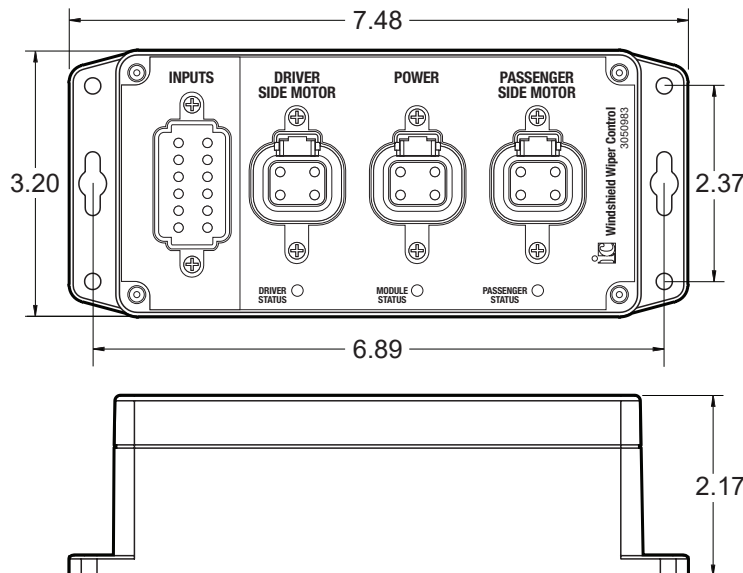
The Innovative Controls Windshield Wiper Control Module is used to control windshield wiper and washer systems that use two DC brush motors. The module synchronizes the driver and passenger side wiper action.

- High speed and low speed operation with five intermittent modes with 2, 4, 6, 8, and 10 second delays.
- Independent windshield washer motor control.
- CAN bus operation of the input and output states of the motors.

FEATURES

- 7 low side inputs
- 3 selectable high side or low side inputs
- 4 high side solid-state outputs @ 25A
- 1 high side solid-state output @ 10A
- CAN bus interface with J1939 protocol
- Status indicator LEDs

DIMENSIONS



WIPER SWITCH INPUTS

PIN	DESCRIPTION
1	WIPER A IN
2	WIPER B IN
3	WIPER C IN
4	WASH IN
5	WASH OUT
6	GROUND
7	GROUND
8	CAN LO
9	CAN HI
10	SPARE2 IN
11	SPARE1 IN
12	SPARE0 IN

DRIVER SIDE MOTOR

PIN	DESCRIPTION	PIN	DESCRIPTION
1	D MOTOR LO	3	D MOTOR SYNC
2	D MOTOR HI	4	GROUND

POWER AND GROUND

PIN	DESCRIPTION	PIN	DESCRIPTION
1	D BATTERY +	3	P GROUND
2	P BATTERY +	4	D GROUND

PASSENGER SIDE MOTOR

PIN	DESCRIPTION	PIN	DESCRIPTION
1	P MOTOR LO	3	P MOTOR SYNC
2	P MOTOR HI	4	GROUND

TECHNICAL SPECIFICATIONS

Operating Voltage	7 to 32 VDC
Current Consumption	95mA plus output circuit loads
Operating Temperature	-40C TO +85C (-40F TO +185F)
Storage Temperature	-40C TO +85C (-40F TO +185F)
Ingress Protection	IP65 polycarbonate enclosure
Electrical Protection	CAN Bus protected to 24V. ESD protected to J1113-13 specifications. Transient voltage protected to J1113-11 and J1113-42. Outputs and input circuits are both protected from over-current, over-voltage, and voltage transients.
Inputs	7 low side active inputs, plus 3 high side or low side selectable inputs
Outputs	4 high side outputs rated at 25A each PWM, 1 high side output rated at 10A each PWM
CAN Interface	SAE J1939 CAN 2.0B port operating at 250kbps, J1939-11 or J1939-15 physical layer
Dimensions	6.30" X 3.15" X 2.17", plus external mounting brackets