

CS3 JOYSTICK

The CS3 is an extremely rugged joystick in an ultra-compact and versatile design. The durable housing and center pivot design make this device resistant to abuse and ideally suited for high duty cycle applications.

1, 2 and 3 axis control is available as well as a variety of standard and custom handles and grips with push buttons and levers. Both separate and simultaneous operation of each is achieved with standard gate patterns.



SPECIFICATIONS

GENERAL DATA

# of Axis	Single, Dual or Three* *Third axis is achieved via a twist handle function or thumbwheel.
Output Options	Hall-Effect, CANOpen, Basic CAN, J1939 & 4-20mA
Joystick Action	Spring Return
Handle Travel	+/- 20 degrees each axis
Gate	Open or Cross
Handle Compatibility	Round Ball, BH, RH, RHS, FG-3, FG-4, FG-5, G58, MG1, MG13, MG27 & TH30
Life	20 million plus cycles
Materials	High strength, glass filled nylon housing.
Est. Shipping Weight	2 lbs.

MOUNTING DATA

Mounting Style Drop-in or Panel (From Below)

2.76" x 2.76 Panel mount

Mounting Footprint 3.54" x 3.54" Drop-in mount

See literature for additional mounting specifications

ENVIRONMENTAL DATA

IP Rating	IP54
Operating Temperature	-13 to +158 degrees F [-25 to +70 degrees C]
Storage Temperature	-40 to +158 degrees F [-40 to +70 degrees C]

ELECTRICAL DATA

Supply Voltage: 4.5 to 5.5 VDC Output Voltage: Ratiometric 0.5 - 2.5 - 4.5 +/- 0.15V @ 5.0V supply Additional supply and output options available Output Current: 10mA Power Consumption: 20 mA @ full load Hall-Effect Specifications Termination: 20 AWG wire 6" leads with mini-fit connector EMC Emissions: Complies with EN61000-6-4:2007 Class A Group 1, 80-1000 MHz EMC Immunity: Complies with or exceeds EN61000-6-2:2005, expanded to include: RFI Immunity of 100 V/M @ 80-1000 MHz

ESD Immunity	of 15Kv	air, 8Kv contact	

CANOpen, J1939 or basic CAN protocols

4 analog inputs

Can Specifications

8 digital inputs 2 digital outputs

See a complete listing of CANbus technical data in ESS408 CAN Based Interface Module Board literature

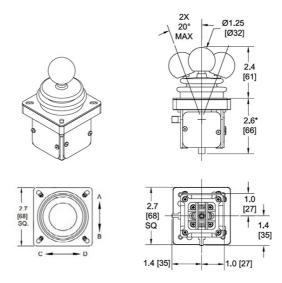
Additional Specifications

Reference product literature for additional specifications

Technical Drawings

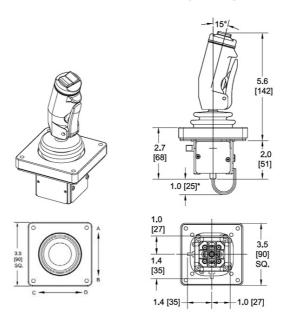
Dimensional





Panel mounting style 1 (P1). Shown will round ball handle.

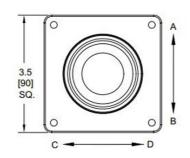
All dimensions in inches [mm] and are subject to change.

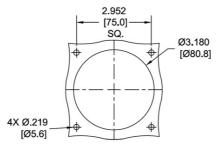


Drop-in mounting & panel mounting style 2 (P2). Shown with BH handle.

Mounting

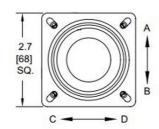
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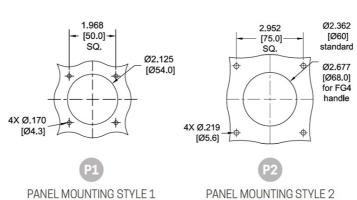




CS3 drop-in mounting (mounts from above).

All dimensions in inches [mm] and are subject to change.





CS3 panel mounting (mounts from below). P2 mounting pattern uses larger (drop-in) CS3 body.

Wiring

Wiring

Bang/Bang
The CS3B/B uses a V series snap-action switch with 0.187" quick connect tab or can be directly soldered to. The recommended maximum wire size is 18 AWG.

	5.5 VDC Su	pply: gle Sensor	CS3V -	2 Axis Sin	gle Sensor
PIN	COLOR	FUNCTION	PIN	COLOR	FUNCTION
7	WH/RED	+5.00 VDC Supply	1	ORN	+5.00 VDC S
8	WH/BLK	Ground	2	GRN	Ground
9	BROWN	A-B Output	3	BLU	A-B Output
Conne	otions:		4	GRY	C-D Output

Connections:

9-position AMP MATE-N-LOCK with female contacts - mates with connector 1-480706-0 and male contacts and sold on the contact and sol

PIN	COLOR	FUNCTION	
1	ORN	+5.00 VDC Supply	
2	GRN	Ground	
3	BLU	A-B Output	
4	GRY	C-D Output	

Wiring & connecting details