

# MERRITT EVOLVE

Designed to adapt and excel in virtually any equipment application, the Merritt Evolve model joystick offers unprecedented levels of customization. Available with a J1939, CANOpen, or hall-effect output, the Evolve can be configured to a broad range of machinery and operations.



## SPECIFICATIONS

### GENERAL DATA

# of Axis	Single, Dual or Three* *Third axis is achieved via a twist handle function or thumbwheel.
Output Options	CANOpen & J1939, Hall-Effect, Redundant*, Redundant Reversed* *Available in late 2023
Joystick Action	Spring Return
Handle Travel	+/- 20 degrees each axis
Gate	Open or Cross
Handle Compatibility	XG1, FG-4, RH, BH, RHS, G58, MG27
Life	20 million plus cycles
Est. Shipping Weight	3lbs
Est. Shipping Dimensions	13 in. x 10 in. x 8 in.

# MOUNTING DATA

Mounting Style	Drop-in
Mounting Footprint	3.5 in." x 3.5 in" Drop-in mount Reference product literature for additional mounting specifications

# ENVIRONMENTAL DATA

IP Rating	IP54* *IP Rating dependent on the handle device chosen.
Operating Temperature	-40 to +140 F [-40 to +60 C]
Storage Temperature	-40 to +176 F [-40 to +80 C]

# ELECTRICAL DATA

Contact Specifications	<p><i>Single 5V (Standard)</i></p> <p><b>Supply Voltage:</b> 4.5-5.5 VDC</p> <p><b>Output Voltage:</b> Ratiometric 0.5 - 2.5 - 4.5 V <math>\pm</math>0.15 V @ 5.0 V Supply</p> <p><b>Output Current:</b> 10mA</p> <p><b>Power Consumption:</b> 7 mA typical (5 - 10 mA max)</p>
Hall-Effect Specifications	<p><i>7-30 VDC</i></p> <p><b>Supply Voltage:</b> 7-30 VDC</p> <p><b>Output Voltage:</b> 0.5 - 2.5 - 4.5 V <math>\pm</math>0.15 V</p> <p><i>EMC Emissions:</i></p> <p>Complies with EN61000-6-4:2007; Class A Group 1,80- 1000MHz</p> <p><i>EMC Immunity:</i></p> <p>Complies with EN61000-6-2:2005 expanded to include: RFI Immunity of 100V/M @80 - 1000 MHz ESDImmunity of 15 Kv air, 8 Kv contact</p>
	<p><i>CANOpen</i></p> <p>Standard 2 analog joystick inputs (X/Y)</p> <p>Up to 14 digital inputs</p> <p>Up to 4 digital outputs*</p>

Can Specifications

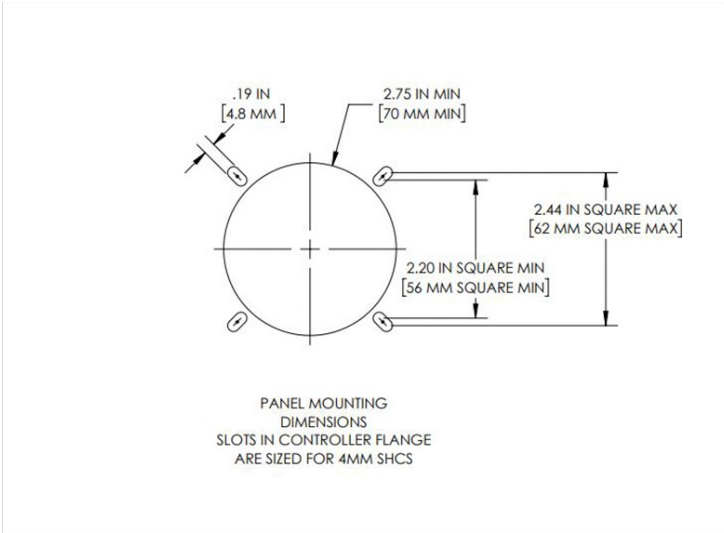
- Up to 8 additional analog inputs\*
- \* Replacing digital inputs
- J1939*
- Standard 2 analog joystick inputs (X/Y)
- Up to 14 digital inputs
- Up to 4 digital outputs\*
- Up to 8 additional analog inputs\*
- \* Replacing digital inputs

Additional Specifications

Reference product literature for additional specifications

# Technical Drawings

## Mounting



Merritt Evolve Drop-in mounting