FG5
FIGHTER GRIP HANDLE

J.R. MERRITT®
CONTROLS

The FG5 fighter grip handle offers optimal comfort and performance in a rugged design. Ideal for left-hand or right-hand applications, the FG5 can be completely customized with a range of devices and functions, including push buttons, rocker switches, thumbwheels and a trigger.
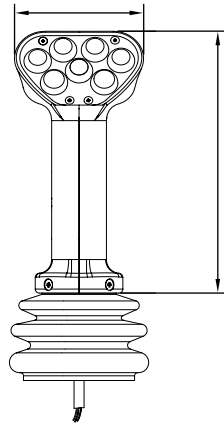
RUGGED DESIGN

HIGHLY CONFIGURABLE

IP54 PROTECTION

DEVICE POSITIONS	PG 2

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DEVICE SPECIFICATIONS	PG 4

0520

DEVICE LOCATIONS*

TOP

1 Position Devices

2 Position Devices

LEFT

RIGHT

FRONT**

BUTTONS

1 Position Device

- Flush Push Button***
- Extended Push Button

***Optional sealing boot available

ROCKER SWITCHES

2 Position Device

- Maintained (0-1) Rocker Switch
- Maintained (1-0-1) Rocker Switch
- Momentary (0-1) Rocker Switch
- Momentary (1-0-1) Rocker Switch

THUMBWHEELS

2 Position Device

- Potentiometer Thumbwheel
- Hall-Effect Thumbwheel

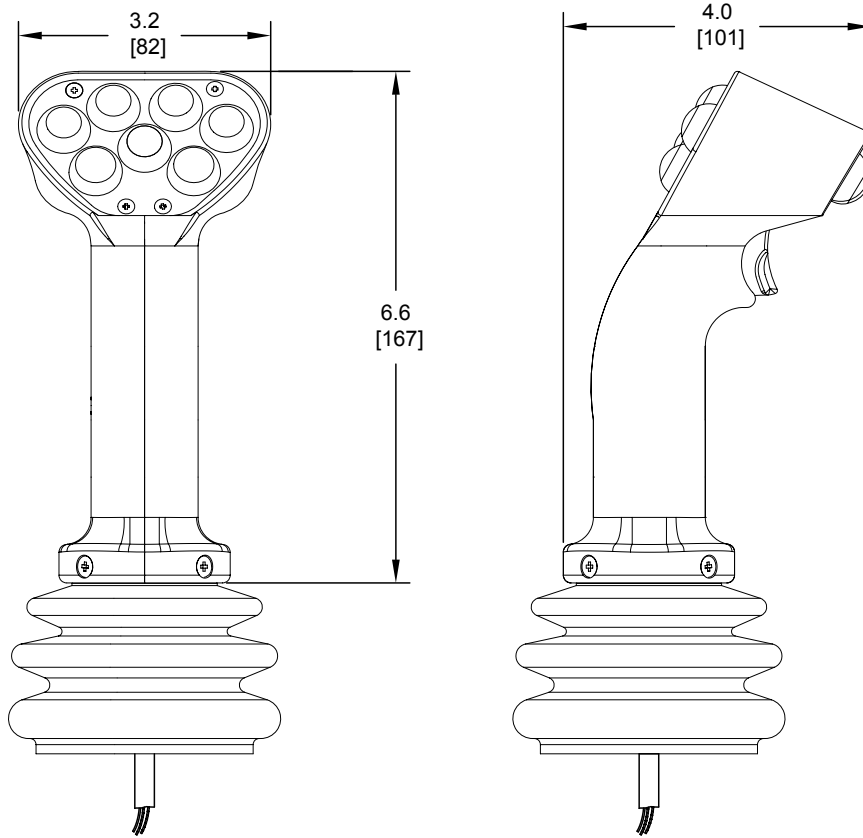### TRIGGER

Position 5 Only

- Trigger (1 NO)

TWIST

- Twist w/ Potentiometer & Contacts
- Twist w/ 1-0-1, Each Direction 1 NC, 1 NO

*Due to space restrictions, not all variations of options are available in all positions.

Total number of devices is dictated by how many wires will fit down the joystick shaft. See device specification page for more details.

**2 position devices cannot span across horizontally in positions 6R - 6L.

SPECIFICATIONS

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DIMENSIONS

3.2
[82]

4.0
[101]

6.6
[167]

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

DEVICE SPECIFICATIONS*

TYPE	CONTACT	RATING**	OPERATING TEMPATURE	IP RATING
Push Buttons	1 NO	1 A 28 VDC	-40°F to 185°F (-40°C to 85 °C)	IP64 IP68S (w/ Sealing Boot)
Rocker Switches	1 NO (0-1) 1 NO, 1 NO (1-0-1)	6 A 125 VAC	-4°F to 221°F (-20°C to 105 °C)	IP40
Thumbwheel (Potentiometer)	Optional 1 NO in each direction	**Supply:** 30 VDC max **Signal Current:** 1 mA max **Output:** 25-50-75% supply	-22°F to 140°F (-30°C to 60°C)	IP43
Thumbwheel (Hall-Effect)	N/A	**Supply:** 4.5V to 5.5V **Output:** 0.5V to 2.5V to 4.5V max	-40°F to 185°F (-40°C to 85 °C)	IP68S
Trigger	1 NO	6 A 125 VAC	-13°F to 221°F (-25°C to 105°C)	IP54

WIRES PER DEVICE ***

DEVICE	# OF WIRES
Push Buttons	1
Rocker Switches (0-1) Rocker Switches (1-0-1)	1 2
Thumbwheels (Hall or Potentiometer)	3
Thumbwheels w/ Directional Contacts	5
Trigger	1

MAX WIRES PER SHAFT DIAMETER

SHAFT DIAMETER	PRODUCTS	MAX. # OF WIRES
8 mm	All	8 wires
10 mm 12 mm	CS3HD VNS2, NNSO	16 wires

*Device specifcations subject to change without notice.

**All handles wired with 24 AWG wire (rating is 3A max).

Wires run through a steel shaft, so should be limited to 30V AC/DC max.

***For configurations using a single common wire. If application requires individual common wires, device wire counts will increase for those devices.