

# FG4 FIGHTER GRIP HANDLE



With its narrow and wide body variations, the FG4 fighter grip handle offers countless combination possibilities including the ability to create left and right hand configurations. Designed around comfort and reliability, the FG4 is built to withstand the most demanding applications.



FG4 standard shown with handrest



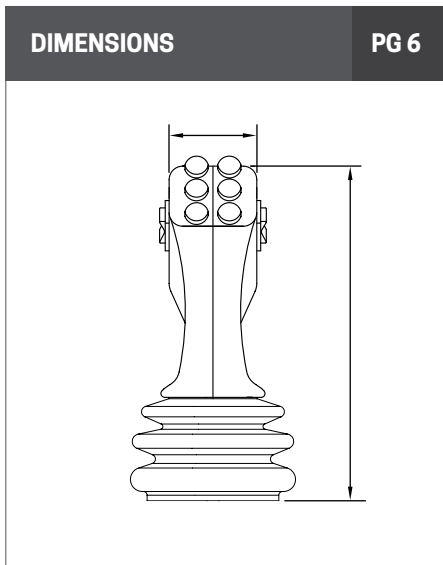
HIGHLY  
CUSTOMIZABLE



RUGGED  
DESIGN



IP65  
PROTECTION



## DEVICE LOCATIONS\*



### 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

- Operator Presence Switch (1 NO)



### TWIST

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



### HANDREST

- Right-Hand Side Handrest
- Left-Hand Side Handrest

\*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 6Ro - 6Lo and 6Ru - 7Lu due to handle curvature.

# FG4-L

Ideal for right hand operation

## DEVICE LOCATIONS\*



### 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

- Operator Presence Switch (1 NO)



### TWIST

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



### HANDREST

- Right-Hand Side Handrest

\*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 6Ro - 6Lo and 6Ru - 7Lu due to handle curvature.

# FG4-R

Ideal for left hand operation

## DEVICE LOCATIONS\*



### 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

- Operator Presence Switch (1 NO)



### TWIST

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



### HANDREST

- Left-Hand Side Handrest

\*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 6Ro - 6Lo and 6Ru - 7Lu due to handle curvature.

# FG4-L/R

Suitable left hand or right hand operation

## DEVICE LOCATIONS\*



### 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

- Operator Presence Switch (1 NO)



### TWIST

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



### HANDREST

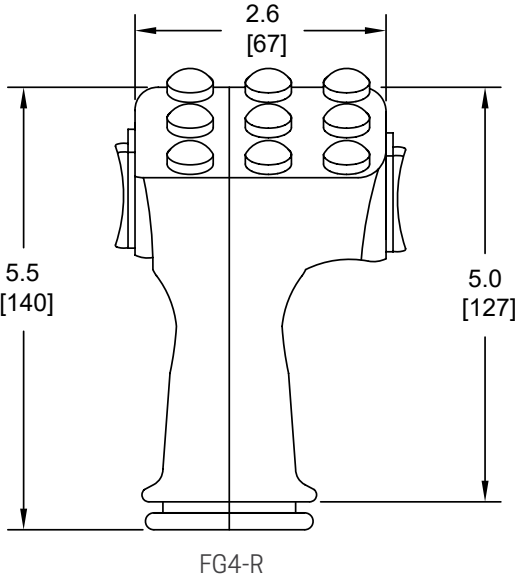
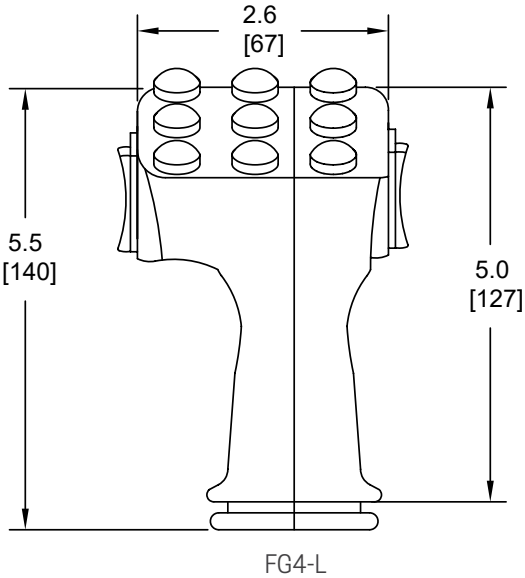
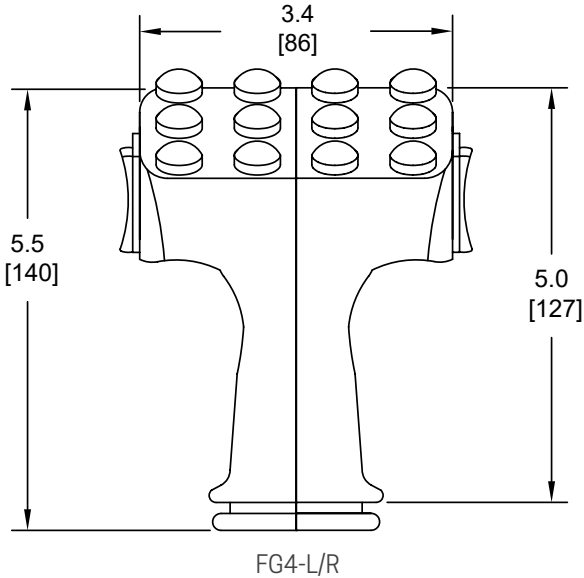
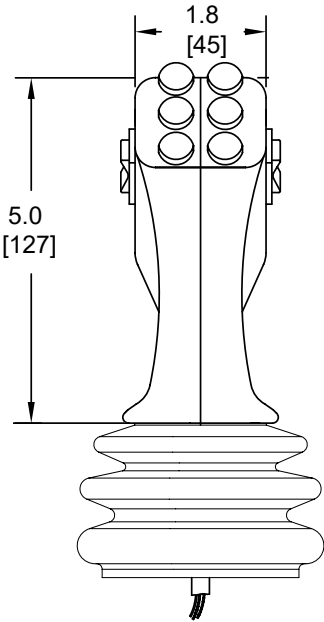
- Right-Hand Side Handrest
- Left-Hand Side Handrest

\*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 6Ro - 6Lo and 6Ru - 7Lu due to handle curvature.

## DIMENSIONS



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

DEVICE SPECIFICATIONS*				
TYPE	CONTACT	RATING**	OPERATING TEMPERATURE	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	<b>Supply:</b> 30 VDC max <b>Signal Current:</b> 1 mA max <b>Output:</b> 25-50-75% supply	-22°F to 140°F (-30°C to 60°C)	IP43
Thumbwheel (Hall-Effect)	N/A	<b>Supply:</b> 4.5V to 5.5V <b>Output:</b> 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
Twist (10K Potentiometer)	N/A	0.5 Watt	-13°F to 185°F (-25°C to 85°C)	IP65
Twist (Contacts)	1 NC, 1 NO in each direction	5 A 125 VAC	-13°F to 185°F (-25°C to 85°C)	IP40

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

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 specifications 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.