GRIPS

G3-E CONTROL GRIP

HEAVY EQUIPMENT AND MATERIAL HANDLING GRIPS

G3-E CONTROL GRIP



The G3-E Control Grip is a multi-function, compact grip with five momentary pushbuttons and a proportional Hall effect rocker. Available in both left-handed and right-handed versions, the two often work together within the same control seat. The grip's switches are sealed to IP68S and provide a high cycle life.

The G3-E is a standalone grip or it can be mounted on a joystick. Mounting the G3-E on an OTTO bottom mount JHM joystick is a standard offering available as a JHM-61xxxxx or a JHM-62xxxxx (see JHM page) with a large variety of gating options.

The G3-E Control Grip is great for forestry applications, and also works well in construction, off-road and other demanding applications where reliability is paramount.

Features:

- Available in left-handed and right-handed versions
- Switches sealed to IP68S
- High cycle life
- Variety of output options
- RoHS compliant

Standard Characteristics/Ra	ntings:			
ELECTRICAL RATINGS:				
U2 Hall Effect Rocker				
Rated @ Vcc = 5V @ 25°C Load = 1ma (4-7Ω)	Units	Min	Тур	Max
Supply Voltage	VDC	4.50	5.00	5.50
Output Voltage +Z, -Z 0° Deflection	VDC @5V Vcc	-0.25	N/A	0.25
Output at Full Travel +Z Direction	VDC @5V Vcc	-0.25	N/A	0.25
Output at Full Travel -Z Direction	VDC @5V Vcc	-0.25	N/A	0.25
Supply Current B=0, Vcc=5V, Io=0	mA	N/A	N/A	10
Output Source Current Limit B=X°, Vo=0	mA	-1.2	N/A	1.2
Pushbuttons				
Electrical Rating @ 5 VDC	10 mA Resistive Load			
Circuit	SPST-N0			
MECHANICAL RATINGS				
U2 Hall Effect Rocker				
Mechanical Life Full Forward to Full Back	2,500,000 Cycles			
Operating Force at 25° C	0Z	3.5	6.5	9.5
Maximum Allowable Radial Load	Lbs	N/A	N/A	30
Full Travel Angle (From Center)	Degree	15	17	19
Minimum Return Force	0Z	2.0	N/A	N/A
Pushbuttons				
Mechanical Life	3,000,000 Cycles			
Operating Force at 25° C	0Z	4.0	8.0	12.0
· · · · · · · · · · · · · · · · · · ·	N	1.1	2.2	2.3
ENVIRONMENTAL:	Units	Min	Тур	Max
Operating Temperature:	°C	-40	20	85
U2 Hall Effect Rocker				
Electronics Enclosure Design	IP68S			
Pushbuttons				
Electronics Enclosure Design	IP68S			
MATERIALS:				
U2 Hall Effect Rocker Wires	24 AWG, N	IIL-W-1687	8	
Pushbutton Wires	24 AWG, MIL-W-22759/33			

G3-E PART NUMBER CODE

G3-E Configuration Grip **Orientation 1.** 5-Button 1. Left 2. Right

Rocker Output 1*	Rocker Output 2**
AA. 2.5 +/- 2.0 Vdc	None
BB. 2.5 +/- 2.0 Vdc	2.5 +/- 2.0 Vdc
CC. 2.5 +/- 2.0 Vdc	2.5 +/- 2.0 Vdc
DD . 2.5 +/- 1.5 Vdc	None
EE. 2.5 +/- 1.5 Vdc	2.5 +/- 1.5 Vdc
FF. 2.5 +/- 1.5 Vdc	2.5 +/- 1.5 Vdc
GG. 1.0 - 4.0 Vdc	1.0 - 4.0 Vdc
HH. 0.5 - 4.5 Vdc	0.5 - 4.5 Vdc

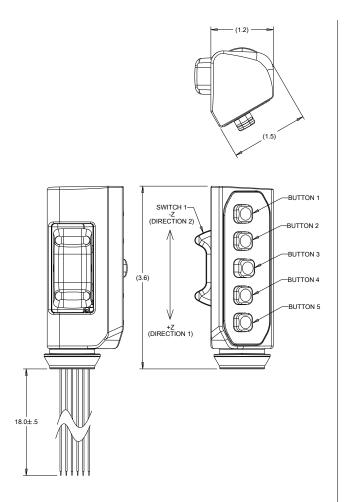
хх

X	X		
Operate Force	Termination		
1. Standard	1. Flying Leads		

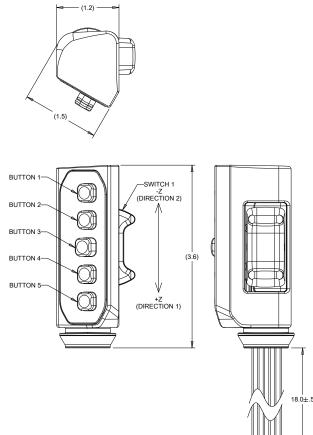
- * Outputs are from the center position to the full travel position in each direction. Options "AA" "BB" "CC" "DD" "EE" "FF" provide increasing voltage in direction 1 and decreasing voltage in direction 2 from a single output. Option "GG" and "HH" provide increasing voltages in both directions from two separate outputs.
- **Option "BB" and "EE" provide redundant output 2 which duplicates output 1. Option "CC" and "FF" provide redundant output 2 which is inverse of output 1.

HEAVY EQUIPMENT AND MATERIAL HANDLING GRIPS

G3-E CONTROL GRIP

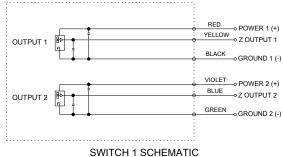


GRIP ORIENTATION LEFT

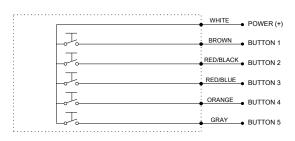


GRIP ORIENTATION RIGHT

G3-E CONTROL GRIP SCHEMATICS



OUTPUT 2 IS NOT PRESENT IN ALL CONFIGURATIONS



PUSHBUTTON SCHEMATIC

HEAVY EQUIPMENT AND MATERIAL HANDLING GRIPS

G3-E CONTROL GRIP OUTPUT

