# G3 UNIVERSAL GRIPS

#### **HEAVY EQUIPMENT & MATERIAL HANDLING GRIPS**

The G3 Universal Grips can be customized for top-of-theline machines requiring high switch content, or to provide only basic control functions on lower tier units. The grips are designed to be panel mounted as a fixed control grip or mounted on an OTTO JH, JHL or JHM joystick.

The OTTO G3 Universal Grips have a modular design and were developed for use with OTTO's standard pushbuttons, rockers, toggles, Hall effect switches and the JH, JHL and JHM series Hall effect joysticks. The G3 Grips are easily customized with multiple switch configurations, quickly and without tooling charges.

### **Features:**

- Compatible with the OTTO JH, JHL and JHM series Hall effect Joysticks
- Variety of sizes/shapes available
- Accommodates a full line of pushbutton, rocker, toggle, HP Hall effect & HPL proportional output series of switches
- Various mounting & termination options available
- Includes mounting adapter with boot ring (where applicable)
- Modular faceplate design reduces the need for tooling charges







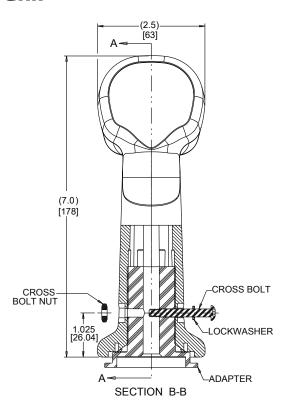


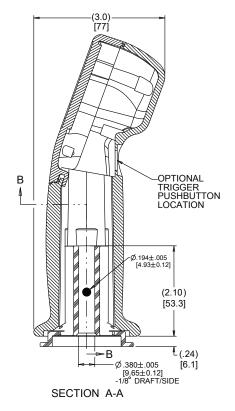
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## **G3-A UNIVERSAL GRIP**

Standard Characteristic	s/Ratings:							
ELECTRICAL RATINGS:								
K1 Switches								
Electrical Rating @ 28 VDC	16 AMP Resistive Load; 7 AMP Inductive Load							
Electrical Life	25,000 Cycles at Full Load							
P9 Switches								
Electrical Rating @ 28 VDC	5 AMP Resistive Load; 3 AMP Inductive Load							
Electrical Life	25,000 Cycles at Full Load							
MECHANICAL RATINGS								
K1 Switches								
Mechanical Life	100,000 Cycles							
P9 Switches								
Mechanical Life	1,250,000 Cycles							
ENVIRONMENTAL:	Units	Min	Тур	Max				
Operating Temperature: K1 Switches	°C	-40*	20	85				
	March I Indonés de la Libration							
Switch Seal Integrity  P9 Switches	Watertight per IP68S (1 meter) and IP69K							
Switch Seal Integrity	Watertight	nor ID600 /1 m	otor) and ID60	ı.V				
Grip	Watertight per IP68S (1 meter) and IP69K							
Seal Integrity	Unsealed							
MATERIALS:	,							
Handle	Thermoplastic, Glass Reinforced, Black							
Faceplate	Thermoplastic, Glass Reinforced, Black							
Mounting Hardware	#10 Crossbolt with Nut and Lockwasher							

 $<sup>^{\</sup>ast}$  Minimum operating temperature is -30  $^{\circ}\text{C}$  when a K1 Switch is installed.





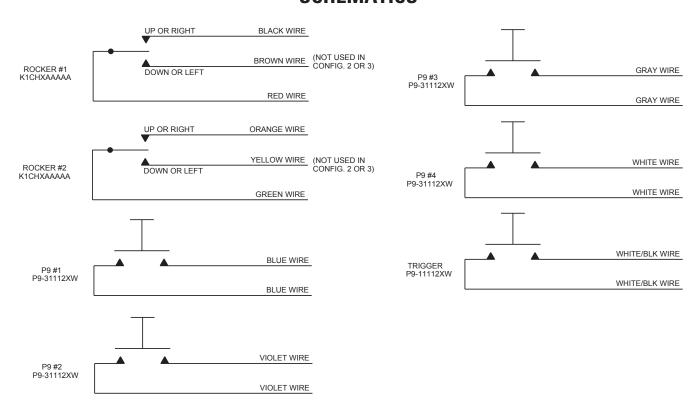
Note: All dimensions are for reference only.

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### **G3-A UNIVERSAL GRIP PART NUMBER CODE**

G3-	-А Х	XX	x x	X	х х	X	X	
	///							
Configuration	Switches	Trigger Pushbutton in Handle	K1 Rocker #1 Style - Black *	K1 Rocker #2 Style - Black *	P9 Button #1 Color	P9 Button #2 Color	P9 Button #3 Color	P9 Button #4 Color
<ol> <li>Grip With Adapter</li> <li>Grip Without Adapter</li> </ol>	See Configuration Sheet on next page	1. None 2. Black 3. Red	1. None 2. On-Off 3. (On)-Off 4. On-Off-On 5. (On)-Off-(On)	1. None 2. On-Off 3. (On)-Off 4. On-Off-On 5. (On)-Off-(On)	1. Red 2. Black 3. Orange 4. Yellow 5. Green 6. Blue 7. Violet 8. Gray	<ol> <li>Red</li> <li>Black</li> <li>Orange</li> <li>Yellow</li> <li>Green</li> <li>Blue</li> <li>Violet</li> <li>Gray</li> </ol>	1. Red 2. Black 3. Orange 4. Yellow 5. Green 6. Blue 7. Violet 8. Gray	1. Red 2. Black 3. Orange 4. Yellow 5. Green 6. Blue 7. Violet 8. Gray
* ( ) denotes momentary. On position or momentary position is up or to the right. Contact factory for rocker legends and additional color options.				9. White N. None	9. White N. None	9. White N. None	9. White N. None	

# **G3-A UNIVERSAL GRIP SCHEMATICS**



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### **G3-A UNIVERSAL GRIP SWITCH CONFIGURATIONS**

