

G3-C Universal Contour Grip

High Performance, Ergonomic Control Grip Design



G3-C with
CM Faceplate Style



G3-C with
CP Faceplate Style

The ergonomically designed G3-C Universal Contour Grip is the latest addition to OTTO's G3 Universal series of rugged, high performance control grips.

G3 Universal Grips can be customized from basic control functions to applications requiring high switch content. The G3-C can be panel mounted as a fixed control grip or it can be mounted on an OTTO JH or JHM joystick. The OTTO G3 Universal Grips offer multiple faceplate options and are designed for use with OTTO's pushbuttons, rockers, toggles and Hall effect switches.

The G3-C grip accommodates up to a total of 11 control switches, including 1 to 8 switches on the faceplate, an optional pushbutton on each side of the grip head, and an optional trigger switch that can also act as an operator presence.

Our grips can be manufactured with custom termination and mounting options.

G3-C Key Features

- Compatible with the OTTO JH and JHM series Hall effect Joysticks
- Accommodates a full line of pushbutton, rocker, toggle, and Hall effect switches
- Faceplate design incorporates up to 8 control switches
- Various mounting & termination options available
- Includes mounting adapter with boot ring
- Modular design reduces the need for tooling charges

Standard Characteristics/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

HTWM Switches

Rated at $V_{cc} = 5V @ 25^{\circ}C$; Load = 1ma (4-7K Ω)				
	Units	Min	Typ	Max
Supply Voltage	VDC	4.50	5.00	5.50
Output Voltage - Return to Center Tolerance at Center	VDC @ 5V V_{cc}	-.15	N/A	+.15
Output Voltage - Return to End Tolerance at Rest	VDC @ 5V V_{cc}	-.25	N/A	+.25
Output Voltage Tolerance Full Travel	VDC @ 5V V_{cc}	-.25	N/A	+.25
Supply Current $B=0, V_{cc}=5V, I_{out}=0$	mA	N/A	N/A	10

HTWS Switches

Rated at $V_{cc} = 5V @ 25^{\circ}C$; Load = 1ma (4-7K Ω)				
	Units	Min	Typ	Max
Supply Voltage	VDC	4.50	5.00	5.50
Output Voltage Tolerance at Center	VDC @ 5V V_{cc}	-.25	N/A	+.25
Output Voltage Tolerance Full Travel	VDC @ 5V V_{cc}	-.25	N/A	+.25
Supply Current $B=0, V_{cc}=5V, I_{out}=0$	mA	N/A	N/A	20

MECHANICAL RATINGS

K1 Switches

Mechanical Life	100,000 Cycles
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P9 Switches

Mechanical Life	1,000,000 Cycles
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HTWM and HTWS Switches

Mechanical Life	3,000,000 Cycles (Return to Center)
(Full Forward to Full Back)	1,000,000 Cycles (Return to End)

ENVIRONMENTAL:

	Units	Min	Typ	Max
Operating Temperature:	$^{\circ}C$	-40	20	85

K1 Switches

Switch Seal Integrity	Watertight per IP68S (1 meter) and IP69K
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P9 Switches

Switch Seal Integrity	Watertight per IP68S (1 meter) and IP69K
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HTWM and HTWS Switches

Electronics Seal Integrity	Watertight per IP68S (1 meter) and IP69K
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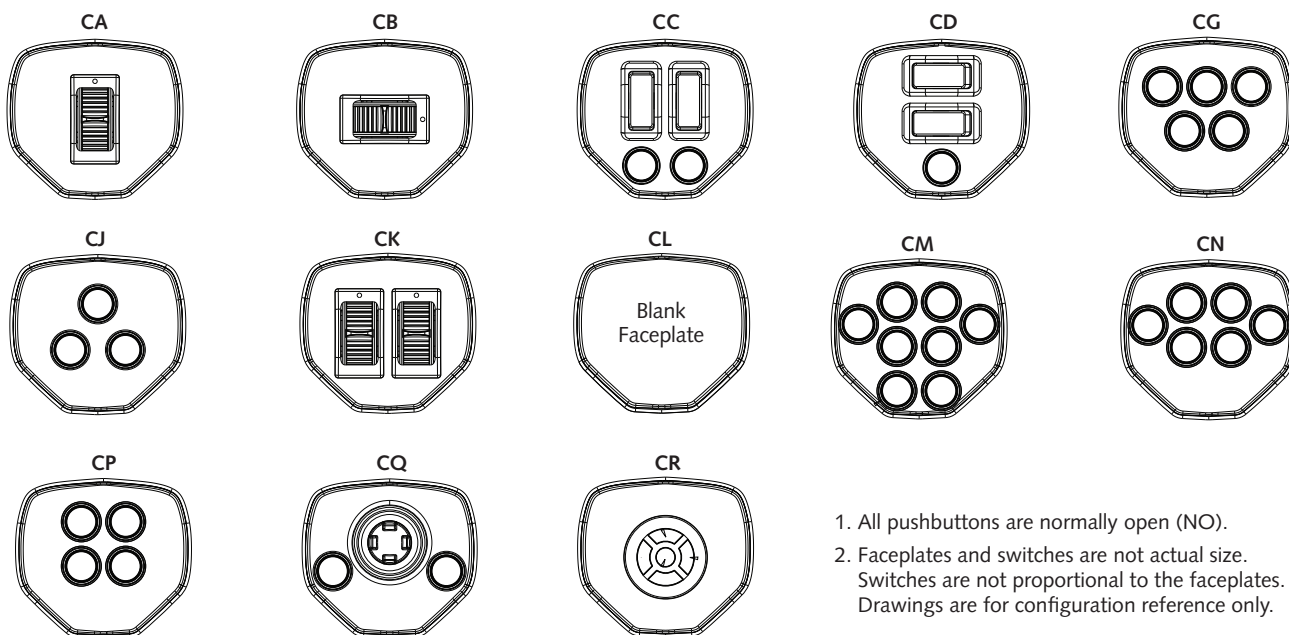
Grip

Seal Integrity	Unsealed
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MATERIALS:

Handle	Thermoplastic, Glass Reinforced, Black
Faceplate	Thermoplastic, Glass Reinforced, Black
Wires	22 AWG, UL Style 1569, (20" Long)

G3-C Universal Contour Grip Faceplates



1. All pushbuttons are normally open (NO).
2. Faceplates and switches are not actual size. Switches are not proportional to the faceplates. Drawings are for configuration reference only.

G3-C Universal Contour Grip Drawings

