



The **GX palm** style **grip** offers a wide range of proportional and high-life, push-button switch combinations.

A contoured front panel means the multi-axis controller is within an easy sweep of an operator's thumb, while the switch arrays are angled to allow for similarly convenient actuation. The controls on the rear are situated to provide comfortable operation. For maximum, application-specific flexibility, each device comes with several colour options. Further **customization** is possible with a choice of **logos** which can be printed on each of the switches, including **backlighting** options.

Where operator presence detection is desired capacitive sensors are situated in the palm grip to allow detection in an unobtrusive way.

In addition to being supplied fitted to a base joystick, the **GX-1 Grip** can be supplied as a **stand-alone product** with an industry-standard, threaded mount and flying lead/connector. Careful material selection ensures **maximum robustness** to impact, liquids and dust, with a seal rating up to **IP67**.

PRODUCT CODE

GX-1

A

B

C

D

E

F

G

H

ORDER
CODE

A	SWITCH PLATE COLOUR
B	= Black
G	= Gray
R	= Red

C	SWITCH COLOUR (FRONT)
B	= Black
G	= Gray
R	= Red
L	= Blue
E	= Green
W	= White
Y	= Yellow
O	= Orange

F	NUMBER OF SWITCHES (REAR)
N	= None
1-3	= up to 3 switches

H	ELECTRICAL INTERFACE
A	= Flying Leads
C	= Deutsch Connector (6-way)

B	NUMBER OF SWITCHES (FRONT)
N	= None
1-7	= up to 7 switches

D	MULTI-AXIS CONTROLLER
N	= None
1-2	= up to 2 controllers

E	MULTI-AXIS CONTROLLER COLOUR
B	= Black
G	= Gray
R	= Red
L	= Blue
E	= Green
W	= White
Y	= Yellow
O	= Orange

G	CAPACITIVE SENSING
N	= None
1-2	= up to 2 sensors

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* The company reserves the right to make any kind of design or functional modification at any moment without prior notice

APPLICATION



ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMPERATURE	-40 °C to +85 °C (-40 °F to +185 °F)
STORAGE TEMPERATURE	-40 °C to +85 °C (-40 °F to +185 °F)
ABOVE PANEL SEALING	Up to IP67 (subject to handle configuration)
HUMIDITY	IEC 60068-2-38
THERMAL SHOCK	SAE J1455 section 4.1.3.2
SALT SPRAY	IEC 60068-2-11
RANDOM VIBRATION	IEC 60068-2-64
SINUSOIDAL VIBRATION	IEC 60068-2-6
UV-RESISTANT MEMBRANE	ISO 4892-2: 2013; method A, cycle 1; 750h

ELECTRICAL CHARACTERISTICS | PUSH BUTTONS

MAX. CURRENT/VOLTAGE RATING WITH RESISTIVE LOAD	<ul style="list-style-type: none"> - Gold plated contact (0): 100 mA 28 VDC, 1,000,000 cycles - Silver contact (1): 2 A 28 VDC, 100,000 cycles
INITIAL CONTACT RESISTANCE	100 mΩ max.
INSULATION RESISTANCE	1 GΩ min. at 500 VDC
DIELECTRIC STRENGTH	1,500 Vrms
CONTACT BOUNCE	10 ms

ELECTRICAL CHARACTERISTICS | MULTI-AXIS CONTROLLER

MAX. CURRENT/VOLTAGE RATING WITH RESISTIVE LOAD	50 mA 12 VDC
ELECTRICAL LIFE AT FULL LOAD	1,000,000 cycles

ELECTRICAL CHARACTERISTICS | CAPACITIVE SENSING

MAX CURRENT/VOLTAGE RATING	4 mA 5 VDC
ELECTRICAL LIFE	50 million Cycles

MECHANICAL CHARACTERISTICS

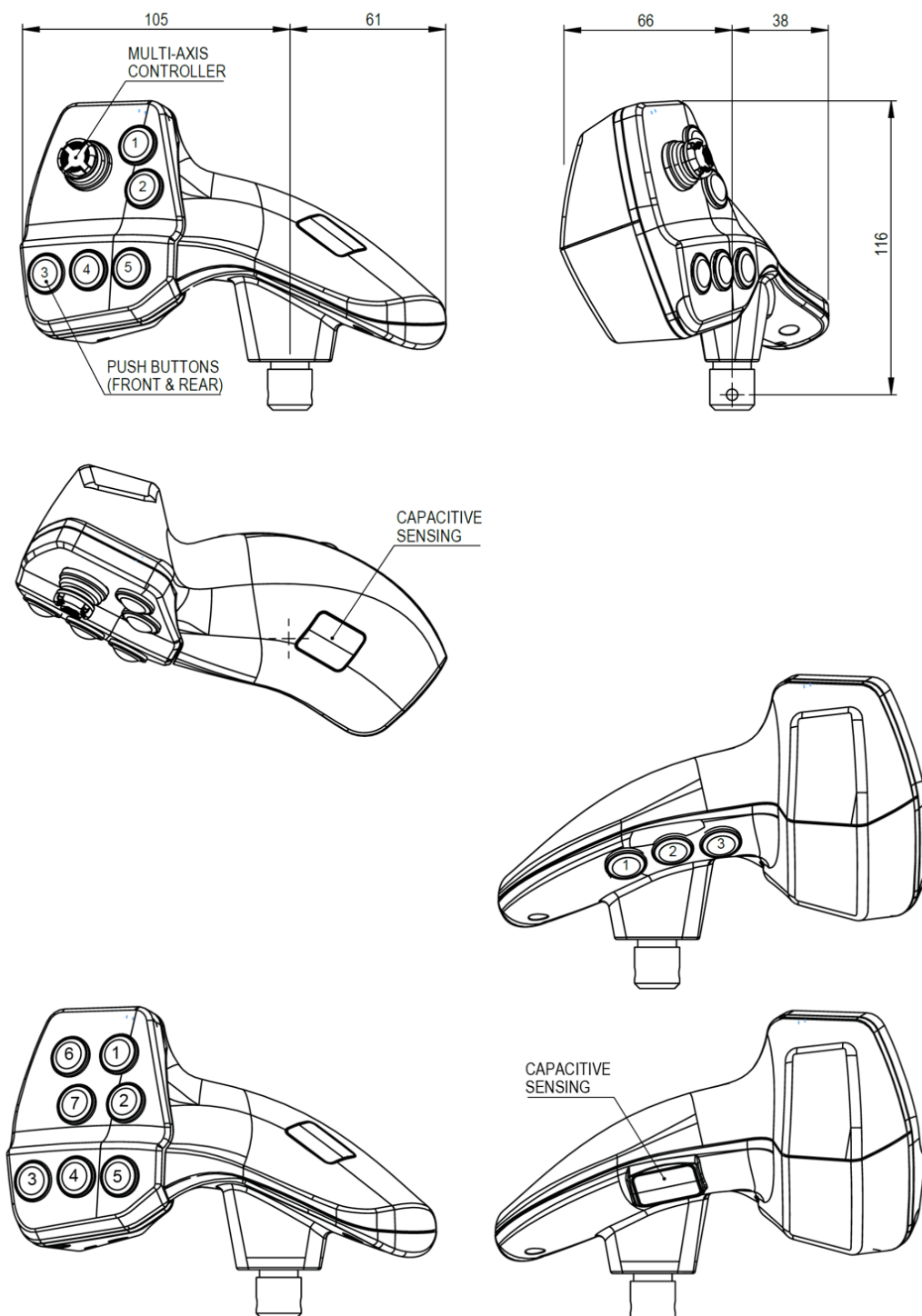
MAXIMUM OVERLOAD - STATIC	500N – applied at the centre of the grip
MAXIMUM OVERLOAD - IMPACT	10J
MAXIMUM TORQUE	25Nm

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INSTALLATION DIAGRAM



OTHER CONFIGURATIONS AVAILABLE
 UPTO 10 PUSH BUTTON SWITCHES POSSIBLE
 UPTO 2 CAPACITIVE SENSING POSITIONS
 CAN BE ADAPTED TO MOUNT VARIOUS JOYSTICK TYPES

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