

Penny & Giles Multi-Function Grip HI Grip

- Ergonomic design with left- and right-hand options
- Front panel combinations including three rollers or up to eight switches
- Rear panel combinations of one roller or up to two switches
- Multi-color options for rollers and switches
- 16 logo options for switches
- Available pre-fitted to JC6000 or JC8000, or as a stand-alone grip
- Robust design for arduous applications
- Sealed to IP67
- EMC performance to 150V/m
- MTTF_D > 900 years



The HI Grip, which is available as a left- or right-hand option, offers a wide range of proportional, noncontacting roller and high-life, push-button switch combinations. Whereas most competitive products can support just three roller functions, the HI Grip can accommodate up to four.

A contoured front panel means the rollers are 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 panel are situated to provide comfortable operation with a first finger. To further enhance operator comfort, both handed options are oriented to lean forward and inwards. For maximum, application-specific flexibility, each roller and switch is offered in nine color options. Further customization is possible by a choice of 16 logos which can be printed in each of the switches.

In addition to being supplied fitted to a JC6000 or JC8000 joystick, the HI Grip can be supplied as a stand-alone product with an industry-standard, threaded mount and flying leads.

Careful material selection ensures maximum robustness to impact, liquids and dust, with the enclosure being sealed to IP67. An EMC performance level of 150V/m is provided and the overall design achieves an MTTF_D in excess of 900 years.

SPECIFICATIONS

ROLLER & SWITCH COMBINATIONS

2-5

FRONT PANEL		REAR PANEL		
Roller(s)	Switches	Roller(s)	Switches	
0	2-8	0	0-2	

ELECTRICAL SUPPLY VOL

1, 2 or 3

SUPPLY VOLTAGE 5Vdc \pm 0.5Vdc for the rollers ROLLER OUTPUT VOLTAGE (FACTORY SET) 10% to 90% of Supply Voltage ROLLER CENTERING ACCURACY 50% \pm 5.5% of Supply Voltage ROLLER CURRENT CONSUMPTION 10mA max. per roller

0 or 1

SWITCH 24V, 50mA maximum per switch

GRIP CONNECTION Flying lead

MECHANICAL

MAXIMUM OVERLOAD - STATIC 600N – applied at the center of the grip

MAXIMUM OVERLOAD - IMPACT 10 Joules
MAXIMUM ROTATIONAL LOAD - STATIC 40Nm

WEIGHT 290g nominal

ROLLER OPERATING ANGLE ±35° for front rollers; ±25° for rear roller

ROLLER MECHANICAL LIFE 5 million cycles

SWITCH TYPE Normally-open - momentary

SWITCH TRAVEL 1mm

SWITCH OPERATING FORCE 3.5N nominal

SWITCH MECHANICAL LIFE > 5 million cycles

MTTF_D > 900 years

ENVIRONMENTAL

OPERATING TEMPERATURE -40°C to 85°C
STORAGE TEMPERATURE -40°C to 85°C
ENVIRONMENTAL PROTECTION IP66 and IP67

SALT MIST EN 60068-2-11: 1999 96 hours

EMC IMMUNITY LEVEL ISO 11452-2: 2004 80% AM Peak modulation, 150V/m, 80MHZ-3GHZ
EMC EMISSIONS LEVEL CISPR25 Frequency range: 30MHz-1GHz, vertical & horizontal

30-230MHz: 3δdB (μV/m) 230MHZ-1GHz: 43dB (μV/m)

ESD IMMUNITY LEVEL ISO 10605:2008 8kV contact (including wires); 15kV air discharge

 POWER FIELD IMMUNITY
 ISO 11452-8: 2007
 100A/m 50Hz-60Hz

 VIBRATION (SINUSOIDAL)
 EN 60068-2-6: 2008
 3gn, 10-200Hz, 1h per axis

 VIBRATION (RANDOM)
 EN 60068-2-64: 2008
 3.6gn, 10-200Hz, 2h per axis

SHOCK EN 60068-2-27: 2008 50gn, ½ sine 6ms, 3 shocks in 6 directions

BUMP EN 60068-2-27: 2008 25g, 10ms, 500 bumps in each of 6 directions

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