



## SPECIFICATIONS

### ELECTRICAL

SUPPLY VOLTAGE	5Vdc $\pm$ 0.5Vdc
OUTPUT VOLTAGE (FACTORY SET)	10% to 90% or 20% to 80% of the supply voltage
CENTER REFERENCE	50% $\pm$ 2% of supply voltage as supplied; $\pm$ 3% of supply voltage at 6 million cycles
OUTPUT SENSE	The dual outputs can be configured to have positive ramps, negative ramps or a combination of positive and negative ramps
CURRENT CONSUMPTION	< 30mA
CONNECTION	12-way Molex connector (53047-1210)

### MECHANICAL

BREAKOUT FORCE	0.7 Nm (nominal)
OPERATING FORCE AT END OF TRAVEL	1.35 Nm (nominal)
MAXIMUM STATIC HORIZONTAL LOAD	50 Nm
MAXIMUM STATIC VERTICAL LOAD	1,100 N
MAXIMUM STATIC ROTATIONAL LOAD	6 Nm
MAXIMUM HORIZONTAL IMPACT LOAD	5 Joules (on operating rod)
MAXIMUM VERTICAL IMPACT LOAD	15 Joules (on operating rod)
MECHANICAL ANGLE	$\pm$ 20° in X and Y axes
GATE	Single (Y-axis), round, square or plus
MECHANICAL LIFE	> 6 million cycles
MTTFd	> 100 years
WEIGHT	310 g including grip

### ENVIRONMENTAL

OPERATING TEMPERATURE	-40°C to 80°C	
STORAGE TEMPERATURE	-40°C to 80°C	
ENVIRONMENTAL PROTECTION	IP66 or IP67 above panel dependent on grip, IP20 below the panel	
EMC IMMUNITY LEVEL	EN 61000-4-3: 2002	100V/m, 80% AM peak modulation, 80MHz-1GHz and 1.4GHz-2.1GHz
EMC EMISSIONS LEVEL	EN 61000-6-4: 2011	30MHz to 1GHz Class B limits
ESD IMMUNITY LEVEL	EN 61000-4-2, Level 2: 1995	8kV contact (including connector pins); 15kV air discharge
POWER FIELD IMMUNITY	EN 61000-4-8	30A/m; 50Hz & 60 Hz
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
BUMP	EN 60068-2-29: 2008	40gn, ½ Sine 6ms, 1,350 bumps in each of 6 directions
SHOCK	EN 60068-2-27: 2008	50g, 6ms, Half Sine, 3 shocks in each of 6 directions