



HCK Series

MAIN FEATURES

- One axis
- Proportional output
- Spring centering or friction hold
- IP67 above panel sealing



DESCRIPTION

The HCK Series is a panel mounted Hall effect control knob providing smooth, proportional output in a low-profile rotary design. For applications requiring reliable single axis rotational control, the HCK Series delivers precise linear outputs in a spring return or friction hold package. Standard IP67 above panel sealing ensure the HCK can be utilized in both indoor and outdoor environments.

SPECIFICATIONS*

MECHANICAL SINGLE AXIS	
Angular travel:	90° total (45° each direction from center)
Expected life:	5M
Centering:	Spring return to center or friction hold
Mass/weight:	11 grams
Breakout torque:	.13 lbFin
Max. allowable torque:	50 lbFin

* Specifications subject to change without notice

ELECTRICAL	
Sensor type:	Hall effect
Resolution:	12 bit
Supply voltage:	5.00VDC +/- 0.01VDC regulated transient free
Supply current:	20mA max
Ratiometric output voltage:	See output voltage
Return to center voltage:	+/-50mV initial
Transient overvoltage max:	20VDC
Reverse polarity max:	-10VDC
Output impedance:	2 Ω
Startup time:	15ms max

ENVIRONMENTAL	
Operating temperature:	-20°C to +85°C
Storage temperature:	-40°C to +85°C
Above panel sealing:	IP67*
EMC immunity level:	EN61000-4-3 Compliance to 30A/m**
EMC emissions level:	EN61000-6-3
ESD immunity level:	EN61000-4-2 Compliance to ±15kV/±8kV**
Vibration:	Per SAE J1455 Section 4.9 & MIL-STD810G 514.6
Mechanical shock:	Per SAE J1455 Section 4.10 & MIL-STD-202G

* Above panel sealing. All configurations. Product is static.

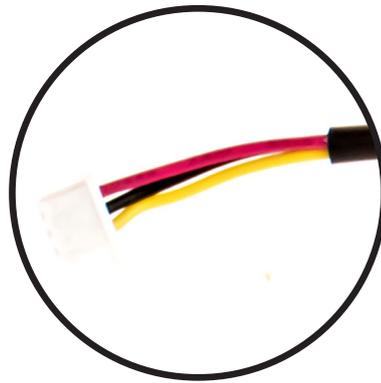
** Extended testing levels.

SPECIFICATIONS

MATERIALS	
Plastic housing:	Mineral & glass filled nylon
Knob/actuators:	Mineral & glass filled nylon

CONNECTIONS	
Housing body:	PCB header (Molex 532610471)
Mating wire harness:	10" 28AWG PTFE to four position connector housing (Molex 510210400)

PINOUT & MATING WIRE HARNESS



10" CABLE PROVIDED



PIN #	WIRE COLOR	DESCRIPTION
1	N/A	N/A
2	YELLOW	Sensor
3	BLACK	Ground
4	RED	Power (+5V)

HCK SERIES PART NUMBER CODE

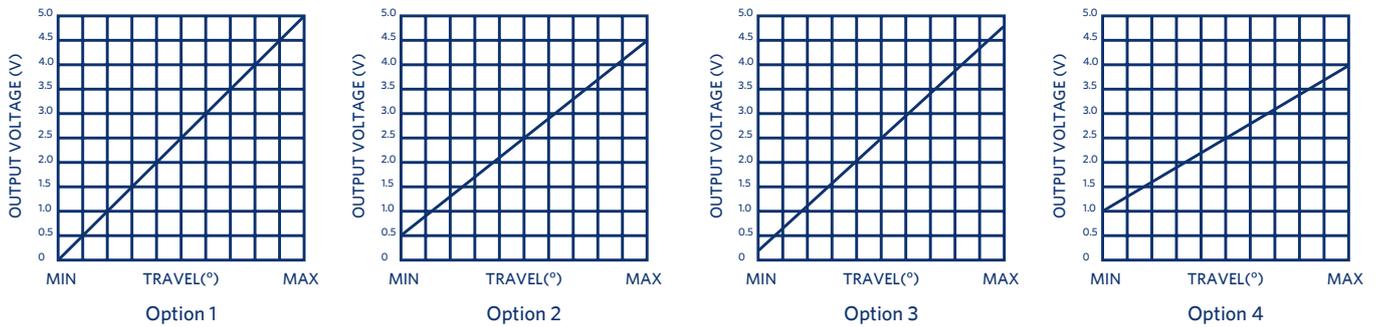
HCK SERIES



Knurled Knob

KNOB OPTION		OUTPUT OPTION		KNOB COLOR		CENTERING	
1	Knurled knob (Standard)	1	0V - 5V	BK	Black		Spring centering
		2	0.5 to 4.5V	GY	Grey	FL	Friction hold
		3	0.25V to 4.75V				
		4	1V to 4V				

VOLTAGE OUTPUT OPTIONS



PANEL CUTOUT DIMENSIONS

MOUNTING DIRECTIONS :

1. INSTALL PANEL GASKET.
2. DROP CONTROL KNOB INTO PANEL CUTOUT.
3. INSTALL 2 MOUNTING SCREWS UNDER PANEL.
4. INSTALL SUPPLIED CABLE TO UNIT - SEE SPECIFICATIONS FOR PINOUT INFORMATION

