

CANlink 6000 CAN Keypad Series Rugged & Highly Configurable

Designed for the Commercial Vehicle and Off-Highway Equipment markets, HED's new CAN Keypad lineup is highly configurable and will stand up to the harshest environments while also delivering durability and an economical price point.

Fully Configurable

Configure the exact keypad you need for your specific requirements.

- Full spectrum RGB colors
- Customize icon and tri-color indicator LEDs
- Individually controlled and configured buttons and indicators
- Dimmable LED backlit icons and indicators
- Configurable graphics

Rugged Reliability

Built to withstand severeduty mobile applications.

- IP67 and IP6K9K submersible and high pressure wash
- · Long life cycle
- Over 30,000 hours Keypad life
- Shock, vibration and chemical resistant
- Built-in switch fault detection
- Sunlight readability options

Affordable Specs

We included everything you need and nothing you don't - keeping costs down.

- J1939 or CANopen
- Easy installation
- Great tactile feedback
- · Integrated connector
- Seven sizes (4-16 buttons)
- Single pole, double throw switching function
- Bar graph capable
- · New, lower price point



IP67 + IP6K9K sealed



Shock & Vibration Resistant



-40C to +70C



Long Life Cvcle



Withstands Caustic Chemicals



HED specializes in the design, manufacture, and application of innovative controls and telematics systems for onand off-highway OEMs. We provide a complete line of controllers, displays, keypads, and telematics solutions.

CL-6000 CAN Keypad Series | Preliminary Specifications

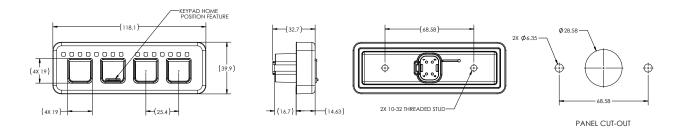
COMPUTING CORE						
Overview	Arm [™] Cortex-M7 Microcontroller running at 120 MHz					
мси	S32K310					
Flash	512 KB					
RAM	112 KB					
INTERFACES						
CAN	1x CAN-FD port					
OPERATING SYSTEM						
Operating System	FreeRTOS					
Boot up Time	150msec (approximate)					
SOFTWARE FRAMEWORK & TOOLS						
CAN Protocol	J1939 and CANopen					
Software Configurations	Ability to change Node ID in CANopen and J1939 Client					
INSTALLATION						
Housing Material	Nylon 6/6 15% glass filled					
Dimensions (mm)	See drawings below					
Weight (preliminary estimations)	CL-6014: 0.20 lbs CL-6022: 0.22 lbs CL-6023: 0.25 lbs CL-6024: 0.30 lbs CL-6026: 0.35 lbs CL-6028: 0.45 lbs CL-6043: 0.35 lbs					
Connectors	Deutsch DT06-4S (with W4S wedge)					
Contacts	Deutsch 0462-201-16141 16AWG Sockets					
Plugs	n/a- need wires in all 4 pins					
Wire Size	16 AWG					
Mounting & Torque	Fastener for #10-32 threaded stud Mounting Torque: Typical: 10-18 in-lbs Max: 22 in-lbs Note: Lock washer should be utilized					
	Typical: 10-18 in-lbs Max: 22 in-lbs					
PINOUT	Typical: 10-18 in-lbs Max: 22 in-lbs					
PINOUT	Typical: 10-18 in-lbs Max: 22 in-lbs					
	Typical: 10-18 in-lbs Max: 22 in-lbs Note: Lock washer should be utilized					
PIN	Typical: 10-18 in-lbs Max: 22 in-lbs Note: Lock washer should be utilized Description					
PIN Pin 1	Typical: 10-18 in-lbs Max: 22 in-lbs Note: Lock washer should be utilized Description Battery(+)					

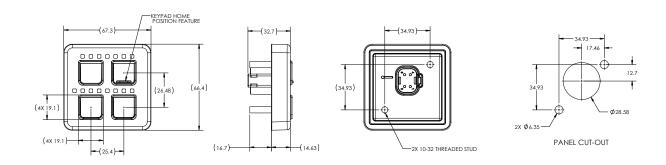
PRODUCT RATINGS						
Operating Voltage		8-32VDC				
Temperat	ture Range		ing:-40C to +70C e: -40C to +85C			
Current		<200mA no LEDs on 9mA/LED multi-color (typical) 3mA/LED single-color R, G or B (typical) Note: 2 LEDs per button backlight R,G,B				
1			67, IP6K9K (from front with appropriately sembled mating conector)			
		IEC 60068-2-64 Random Vibration Test VII Test: Random Vibe, Freq. Range: 10-2000Hz Level: 57.9m/s2 per, Figure 11 / Table 12 Duration/axis: 8hrs (32Hrs total exposure)				
Le # I pu Le # I			IEC 60068-2-27 Mechanical Shock Level: 500 m/s2- 6ms, Shape: Half-sinusoidal # Pulses: 100 per direction/axis (600 total shock pulses) Level: 500 m/s2- 11ms, Shape: Half-sinusoidal # Pulses: 4,400 per direction/axis (26,400 total shock pulses)			
Solar	ISO 4892-2					
Salt Fog		ISO 16750-4				
Chemical		ISO 16750-5				
EMC Conformity		Radiated Emissions: ISO 13766-1, EN 13309, ISO 14982 Conducted Emissions: CISPR 25, Section 6.3 (Voltage Method) Radiated Immunity: ISO 11452-2 Conducted Immunity: ISO 11452-4 (BCI method), 20-200MHz at 100mA				
Electrostatic Discharge		ESD: ISO 10605, IEC 61000-4-2				
Conducted Transient Immunity		ISO 7637-2, Pulse 1, 2a, 2b, 3a, 3b				
Starting Profile		ISO 16750-2, Section 4.6.3				
Reverse Polarity		ISO 16750-2, Section 4.7.2.3				
Load Dump		ISO 16750-2, Section 4.6.4, 40V clamped				
COMPLIANCE						
FCC / ISED Compliance FC		FCC Pa	FCC Part 15 (b) and ISED Canada			
EU / CE Compliance CE 20		CE 201	2014/30/EU			
PART NUMBERING						
Size	Base		CAN Protocol Options			
			CANopen	J1939		
1x4	CL-6014-100		50	30		
2x2	CL-6022-100		50	30		
2x3	CL-6023-100		50	30		
2x4	CL-6024-100		50	30		
2x6	CL-6026-100		50	30		
2x8 CL-6028-100		50	30			
4x3	CL-6043-100		50	30		

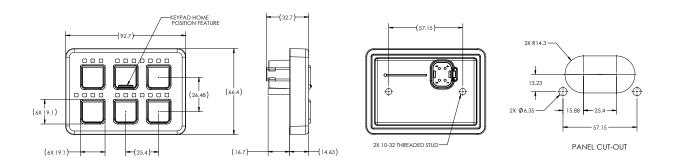


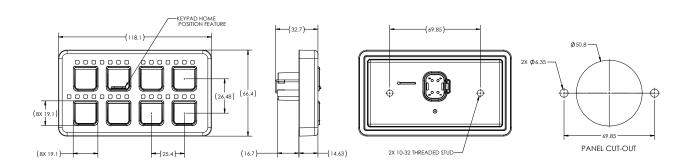
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CL-6000 CAN Keypad Series | Drawings and Dimensions











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