



CL-6000 SERIES RUGGED CAN KEYPADS

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 tricolor LEDs
- Individually controlled and software configured button and indicator LEDs
- Dimmable LED backlit icons and indicators
- Bar graph capable

Rugged Reliability

Built to withstand severe-duty mobile applications.

- IP67 and IP6K9K - submersible and high pressure wash
- Extreme temperature range
- Long life cycle
- Over 30,000 hours Keypad life
- Shock, vibration and chemical resistant
- 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)
- Software programmable LEDs enable endless possibilities
- New, lower price point



IP67 + IP6K9K
sealed



Shock & Vibration
Resistant



-40C to
+70C



Long Life
Cycle



Withstands Caustic
Chemicals

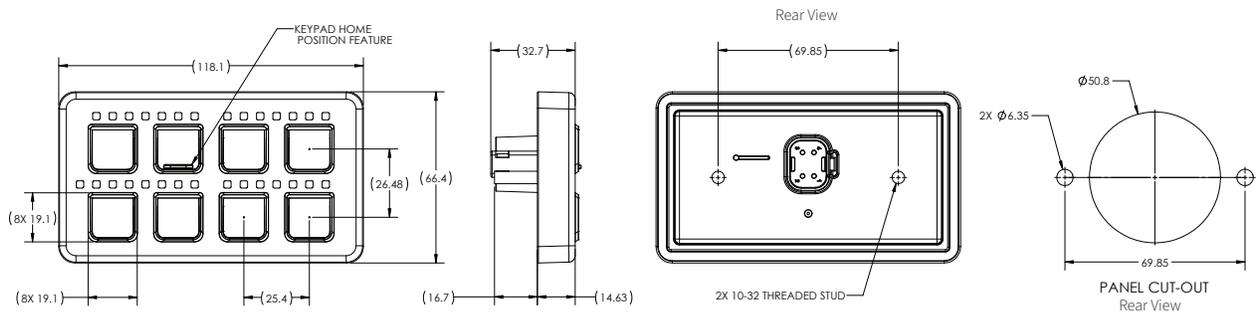
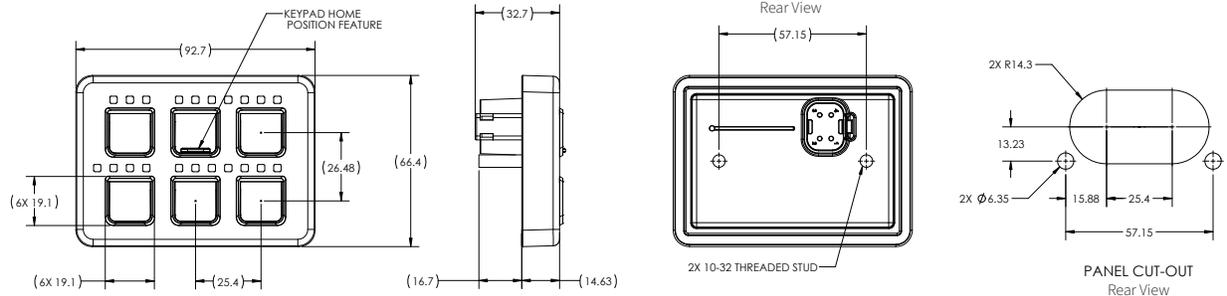
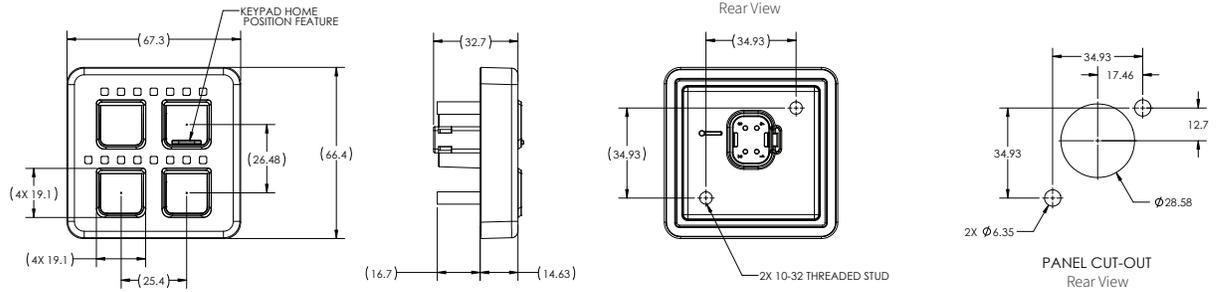
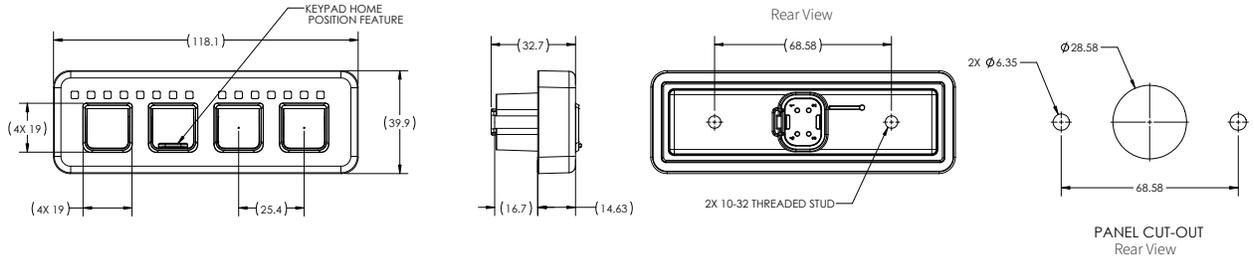
CL-6000 CAN Keypad Series | Specifications

HARDWARE	
Overview	Arm™ Cortex-M7 Microcontroller running at 120 MHz
MCU	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
MECHANICAL	
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
PINOUT	
PIN	Description
Pin 1	Battery(+)
Pin 2	Battery(-)
Pin 3	CAN-H
Pin 4	CAN-L

ELECTRICAL			
Operating Voltage	8-32VDC		
Temperature Range	Operating:-40C to +70C Storage: -40C to +85C		
Current	<60mA (12V), <50mA (24V) : no LEDs on <200mA (12V), <110mA (24V) : typical LED config (all backlights White at 100%, all indicators Green 100%)		
PRODUCT RATINGS			
Operating Voltage	8-32VDC		
Temperature Range	Operating:-40C to +70C Storage: -40C to +85C		
Current	<60mA (12V), <50mA (24V) : no LEDs on <200mA (12V), <110mA (24V) : typical LED config (all backlights White at 100%, all indicators Green 100%)		
IP Class	IP67, IP6K9K (from front with appropriately assembled mating connector)		
Vibrations	ISO 16750-3		
Shock	ISO 16750-3		
Solar	ISO 4892-2		
Salt Fog	IEC 60068-2-52		
Chemical	ISO 16750-5		
EMC Conformity	EN ISO 13766 ISO 14982 UN ECE R10 EN 13309 EN 50498 CISPR 25		
Electrostatic Discharge	ISO 10605 IEC 61000-4-2		
Conducted Transient Immunity	ISO 7637-2		
Starting Profile	ISO 16750-2		
Reverse Polarity	ISO 16750-2		
Load Dump	ISO 16750-2		
EU / CE Compliance	CE 2014/30/EU		
FCC / ISED Compliance	FCC Part 15 (b) and ISED Canada		
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



CL-6000 CAN Keypad Series | Drawings and Dimensions



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