

KEYTROLLER LCD 501 Vehicle Ignition and Monitoring System.

1. General Electrical Specifications

Input Voltage options---must specify input voltage of vehicle:

12 VDC 500mA

24 VDC 250mA

36 VDC 170mA

48 VDC 130mA

Electrically isolated power supply

2. Communications:

RS485 Interface to shock module and Relay unit.

RS232 Interface for Laptop PC, Cyberkey or wireless options

Wireless options: 900 MHz or 802.11 connected to RS232 serial port.

3. Mechanical Specifications:

3.1. LCD module:

Size (approx): 6.460" W x 3.380" H 2.200" D

3.2. Relay module:

Size (approx): 4.925" W x 3.380" H 2.200" D

3.2 Shock module:

Size (approx): 2.380" W x 2.580" H x 1.580" D

Polycarbonate plastic packaging for all components.

All mounting components supplied.

4. Environmental Specifications

Storage Temp: -25 to +85 degrees, C

Operating Temp: 0 to +65 degrees, C

5. Available Options and inputs:

- Speed sensing ---geartooth or magnetic
- "Idiot" light connection for low oil high engine temp shut down
- Auxiliary inputs for: Seat belt connection or other applications
- Flashing strobe/siren alarm

6. Programmable features:

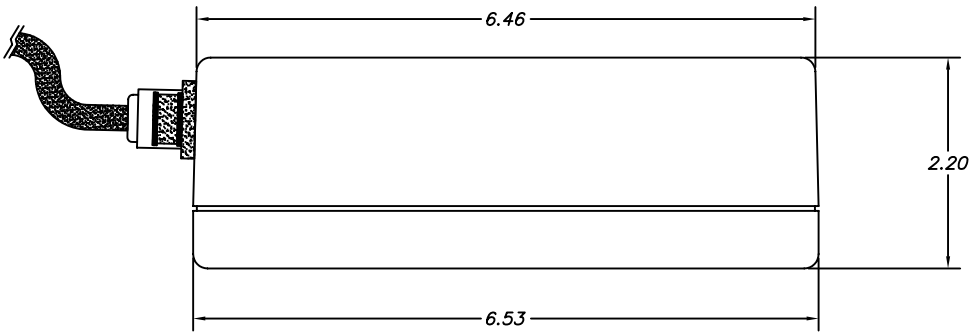
- Operator, programmer, supervisor, and mechanics codes to enable.
- RFID card enabling
- Start from keypad or enable key to start.
- Operator custom checklist by shift time/frequency.
- Speed limit and grace period.
- Impact threshold by front and side axis as well as total impact.
- Shut down in seconds after speeding or impacts.
- Mechanic's lock out while under repair.
- Programmable time lock out.

- View events from LCD screen.
- External alarm sound time.
- Operator code expiration for training purposes.
- Real time clock.
- Event downloading.
- Data filtering by event, operator, vehicle, time, date.
- Graphing of event data.

KEYROLLER LDC UNIT MECHANICAL DRAWING

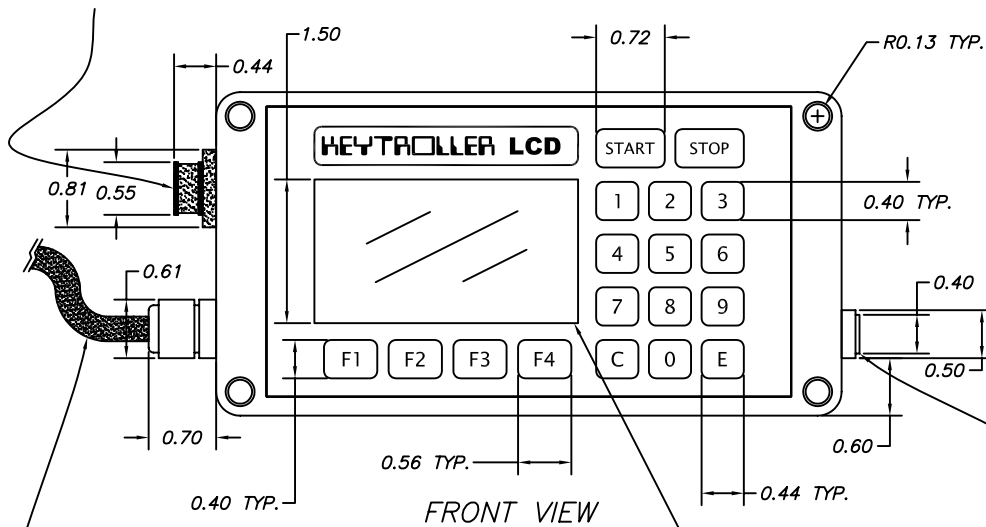
NOTES:

1. ALL DIMENSION IN INCHES UNLESS SPECIFIED.
2. MATERIAL: POLYCARBONATE PLASTIC.

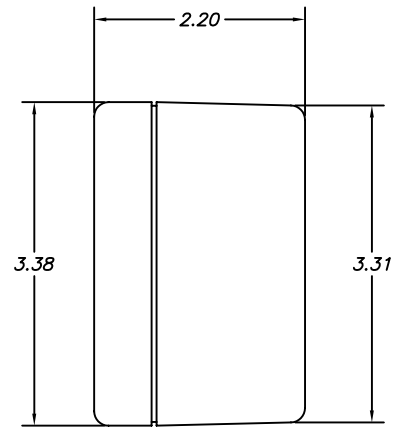


TOP VIEW

QUICK DISCONNECT
(RS-232 INTERFACE)



FRONT VIEW

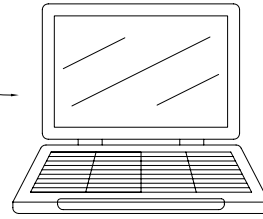


SIDE VIEW

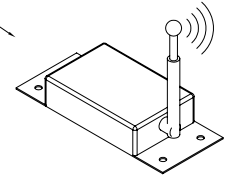
"WAKE UP"
PUSH BUTTON

FIG. 1
KEYTROLLER LCD
GENERAL CONNECTIONS

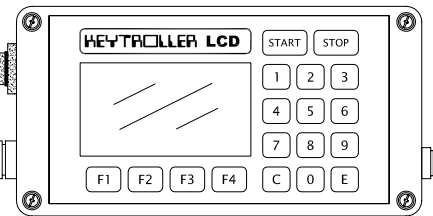
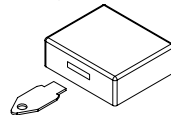
TO SERIAL PORT
 ON COMPUTER
 (DIRECT CONNECTION)



TO WIRELESS DEVICES
 (900MHz OR 802.11)



TO CYBERKEY
 INTERFACE

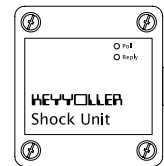


RS-485 DATA BUS
 + POWER CABLE.
 LENGTH = 22"

5 7/8" SECTION.

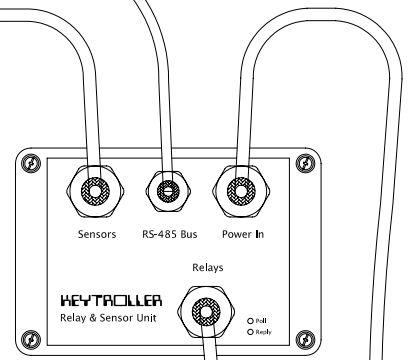
"Y" CABLE
 RS-485 DATA
 BUS + POWER.

86" SECTION
 (LONGER SECTION)

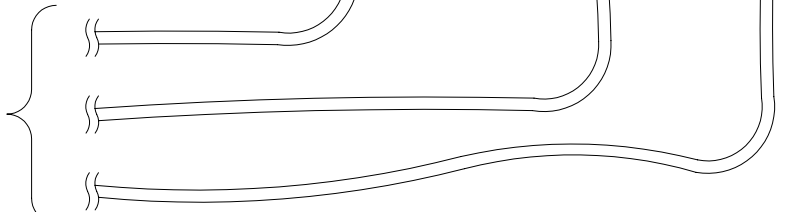


18 1/2" SECTION
 (SHORTER SECTION)

RS-485 DATA BUS
 + POWER CABLE.
 LENGTH = 21"



POWER, SENSORS AND
 RELAYS CONNECTIONS.
 (SEE FIG. 2 FOR DETAILS)



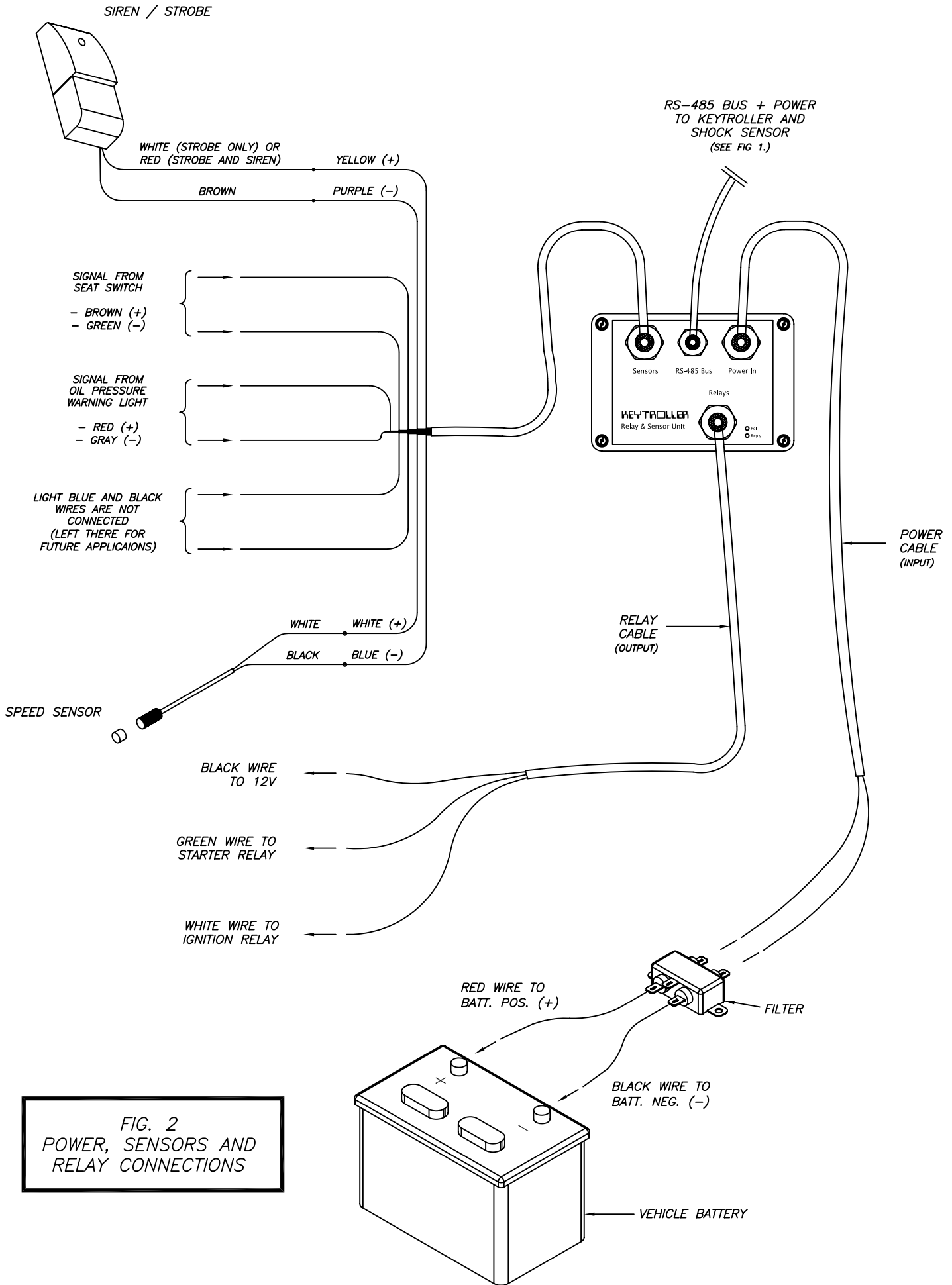


FIG. 2
POWER, SENSORS AND RELAY CONNECTIONS