![Enovation Controls logo]

OPERATION MANUAL: 78-70-0694 Rev A

FUELCAN P/N: 78-70-0694	DRAWING NO.: 78-02-0694	ECO # C05039
DESCRIPTION: FUELCAN, FLC300-R2, NOTR		

I. Reference drawing (Product label might be different)
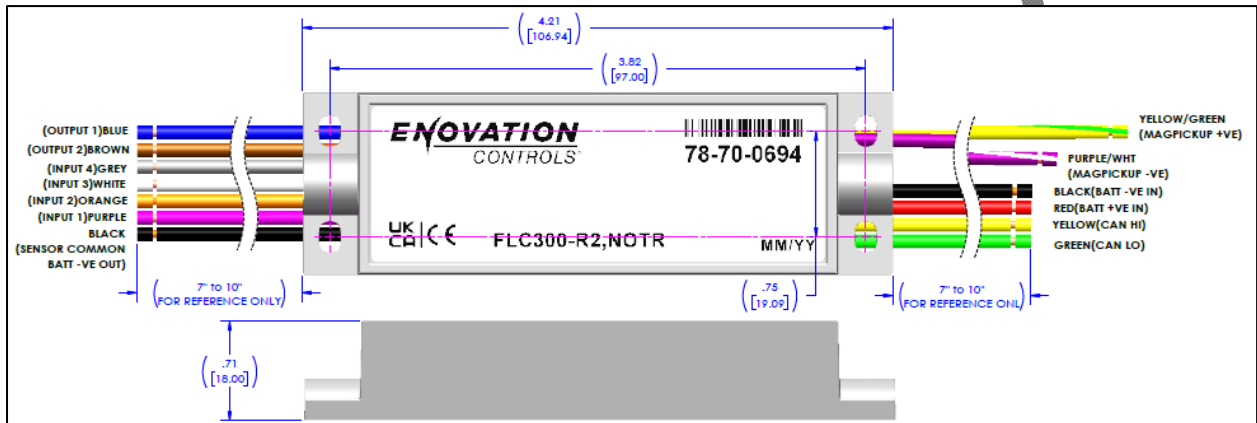
LEFT SIDE		RIGHT SIDE	
Label	**Application**	**Label**	**Application**
BATT -VE OUT(BLACK)	SENSOR GROUND OUT	YELLOW/GREEN (MAGPICKUP -VE)	NOT USED
INPUT 1(PURPLE)	RESISTIVE (SEE TABLE BELOW)	PURPLE/WHT (MAGPICKUP +VE)	NOT USED
INPUT 2(ORANGE)	RESISTIVE (SEE TABLE BELOW)	BLACK(BATT -VE IN)	BATTERY +VE INPUT
INPUT 3(WHITE)	RESISTIVE (SEE TABLE BELOW)	RED(BATT +VE IN)	BATTERY -VE INPUT
INPUT 4(GREY)	NOT USED	YELLOW(CAN HI)	CAN HI
OUTPUT 2(BROWN)	NOT USED	GREEN(CAN LO)	CAN LOW
OUTPUT 1(BLUE)	NOT USED	-	
SOFTWARE CONFIGURABLE TERMINATING RESISTOR (YES/NO)		NO	

II. Operation.

Normal operation:

Parameter	PGN	Start Position	Length	SPN
INPUT (1, 2, or 3)	65276	2	1 byte	96

Special Features:
- Source address defaults to 0xA0 (160 decimal).
- Data broadcasts on PGN 65276 (00FEFC$_{16}$)
- Auto BAUD rate 250kbs, 500kbs, 1M kbs
- The FuelCAN is a compact interface that translates fuel level sender signals into SAE J1939 CAN bus messages.
- The device allows integration of standard senders into modern J1939/CAN bus engine instrument and control systems.

- FuelCAN modules have three inputs (only one of which is connected at any one time): Input 1 is configured for use with Murphy ES series resistive fuel level senders; inputs 2 and 3 can be used with fuel level senders having compatible resistance ranges as shown below.

III. Sensor Ranges:

	fuel level / approx. resistance, Ohms				
	empty	1/4	1/2	3/4	full
Input 1 (Murphy)	240	147	96	60	33.5
Input 2	240	158	100	58	30
Input 3	10	56	95	138	180

IV. LED Operation:

LED pattern	Status
Off	Power off
Flashing ('heartbeat' pulse on)	Power on, but all inputs open circuit (valid sender not detected).
Flashing (50/50% on/off)	Power on, valid sender input, but no CAN activity.
On	Power on, valid sender input and CAN activity