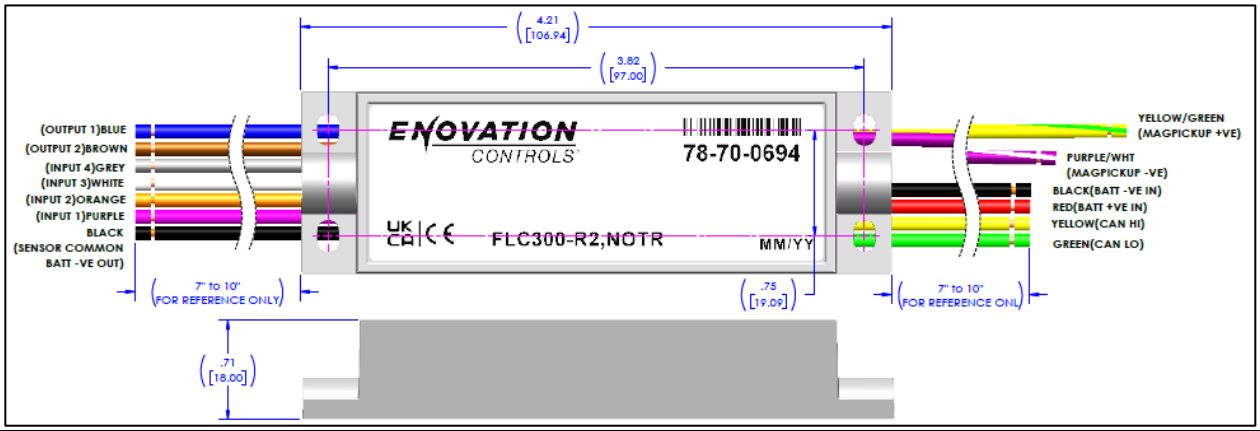
OPERATION MANUAL: 78-70-0694 Rev A

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	
Wire Color	**I/O (Function)**	**Wire Color**	**Function**
BLACK	BATT -VE OUTPUT(***SENSOR GROUND***)	YELLOW/GRN	NOT USED
PURPLE	INPUT 1 (***RESISTIVE, SEE TABLE BELOW***)	PURPLE/WHT	NOT USED
ORANGE	INPUT 2 (***RESISTIVE, SEE TABLE BELOW***)	BLACK	BATT -VE INPUT
WHITE	INPUT 3 (***RESISTIVE, SEE TABLE BELOW***)	RED	BATT +VE INPUT
GREY	INPUT 4 (***NOT USED***)	YELLOW	CAN HI
BROWN	OUTPUT 2 (***LOW SIDE (B-)***)	GREEN	CAN LOW
BLUE	OUTPUT 1 (***LOW SIDE (B-)***)	-	-
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