

SPECIFICATION:-

▲ 1. VEHICLE OPERATING SYSTEM VOLTAGE: 24V DC WITH -Ve GROUND 2. WARRANTY TERMS:- 3 YEARS/3,00,000 Kms. WHICHEVER IS EARLIER.

3. MECHANICAL:-

▲ 3.1 SENSOR HEAD OF FUEL SENSOR ARE SUITED FOR MOUNTING OF FUEL TANK WITH Ø50.5mm HOLE (AS PER VIEW 'C')

(3) ▲ 3.2 FITMENT OF FUEL SENDER :-BAYONET TYPE WITH 'O' RING

USE PROPER TOOL FOR FITMENT OF FUEL SENDER IN FUEL TANK

INSTALLATION TORQUE :-VERTICAL FORCE ATLEAST 400N. MAINTAIN THE VERTICAL PRESS & ROTATE THE GAUGE 30° CLOCKWISE.

DO NOT USE MORE THAN 45Nm. THERE SHOULD BE NO LEAKAGE OF FUEL AFTER THE UNIT IS TIGHTENED

4 **A** 3.3 SUCTION/RETURN FITTING/PLUG TORQUE: 20±5Nm

2) ① 3.4 FILTER PULL OUT FORCE AFTER ASSEMBLY SHOULD NOT BE LESS THAN 8.0 kg-f

(1) (5) (2) ♠ 3.5 SEALING OF SENSOR HEAD : IP69K

4. ELECTRICAL:-

4.1 FOR ELECTRICAL CONNECTION PLEASE REFER TABLE 'B'

▲ 4.2 OPERATING VOLTAGE : 9-32 VDC WITH 80V OVER VOLTAGE PROTECTION

▲ 4.3 SUPPLY CURRENT : 15 mA @ 12VDC : 23 mA @ 24VDC

● 4.4 OUTPUT SIGNAL : 0.5 VDC (EMPTY) TO 5VDC (FULL)

● 4.5 RESOLUTION : 10mV

2 ① 4.6 ACCURACY : ±2.0% @ 20°C (+68°F) IN DIESEL WITH DIELECTRIC CONSTANT VALUE OF 2.1 TO 2.3

▲ 4.7 SLEEP CURRENT : 10mA MAX.

5. ENVIRONMENTAL:-

▲ 5.1 OPERATING TEMPERATURE RANGE :- -40 TO +85 DEG. CELCIUS.

▲ 5.2 STORAGE TEMP. RANGE :- -40 TO +90 DEG. CELCIUS

① 5.3 ALL STEEL PARTS ARE TO BE ZINC PLATED & TRIVALENT YELLOW PASSIVATED

AS PER FeZn8 Cr III Y AS PER TS:10812 NOTES:-

1. O RING WILL BE PART OF SUPPLY.

1 2. TANK UNIT TO BE PASSED UNDER TML AGREED DVP

● 3. FUEL SENDER TO BE CALIBRATED AT ALL FUEL INDICATION LEVEL

2 4. THE FUEL SENDER IS SELF CALIBRATING, WHICH MEANS ITS ACCURACY STAYS WITHIN ±10% EVEN IF

USED IN A DIFFERENT FUEL, AS LONG AS DIELECTRIC CONSTANT OF FUEL IS WITHIN 1.75 TO 3.0. \bigcirc 0 5. THE PCBA SHOULD HAVE CONFORMAL COATING

(2) © 6. GUIDING STRIPS (01 NOS.) TO BE USED IN BOTH THE PROBES ASSEMBLY

7. DIMENSIONS WITHOUT TOLERANCE ARE FOR REFERENCE ONLY.

(6) ▲ 8. LOCTITE SI 5910 SHOULD BE USED FOR SENSOR HEAD SEALING

OCALIBRATION TABLE: 'A'

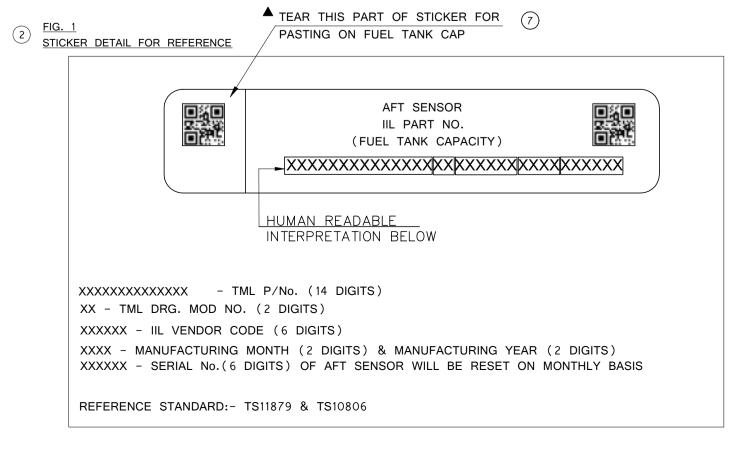
CALIDIVATI	ON IABLE. A				
s.no.	FUEL LEVEL	HIGHT FROM THE FUEL TANK BOTTOM (MM.)	OUTPUT VOLTAGE (V)	FUEL CAPACITY (L) (±1LTRS.)	
	FOEL LEVEL		(±2% OF FULL SPAN)	225 LTRS	350 LTRS
1	FUEL	450	5.0	225	349.7
2	3/4	346	3.85	175.6	272.5
3	HALF	246	2.75	116.6	180.9
4	1/4	146	1.64	57.9	89.8
5	EMPTY (HIGH)	94	1.07	31	48
6	EMPTY (LOW)	42.5	0.5	9.8	15
7	DEAD VOLUME	27.5	0.5	5.1	8

▲ TABLE: `B'

CONNECTOR CONFIGURATION					
PIN	TYPE				
1	V+ (SUPPLY)				
2	V- (GROUND)				
3	SIGNAL OUT (0.5-5V)				
4					

SUB ASSLY. SERVICABLE PART LIST

S.NO.	PRODUCT	QTY.	IIL PART No.	CUST. P/No.
1	O RING	01	ORN 40.002	5120 5430 78 01N
2	FILTER	01	PFC 40.001	5039 5430 36 01N
3	ENGINE SUCTION FITTING ASSLY.	01	SFA 40.001	5039 5430 68 01N
4	ENGINE RETURN FITTING ASSLY.	01	RFA 40.001	5039 5430 68 02N

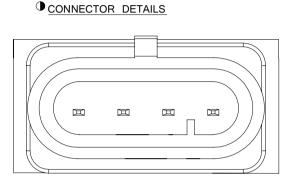


LL OF I	MATERIAL:-			
S.NO.	PART NAME	QTY.	MATERIAL	
1	SENSOR HEAD	01	ALUMINIUM ALLOY ADC-12 3 2	
2	BAYONET COVER	01	STAINLESS STEEL AISI TYPE 304 2	
3	O-RING ID 55.0 X THICK. 6.4mm.	01	NITRILE HARDNESS SHORE 'A' 70 ±5 COLOUR-BLACK (2)	
4	CAPACITIVE TUBE (MAIN EXTRUSION)	01	ALUMINIUM 6060/6005 (2) (5)	
5	SUCTION TUBE Ø10.0	01	COPPER COATED STEEL TUBE	
6	RETURN TUBE Ø8.0	01	COPPER COATED STEEL TUBE	
7	CONNECTOR	01	PBT, GF 30% (5)	
8	COVER	01	PBT, GF 30% (2)	
9	ENGINE SUCTION FITTING	01	EDEE CUITING STEEL HEY DOD	
10	ENGINE RETURN FITTING	01	FREE CUTTING STEEL HEX ROD	
11	AUXILIARY SUCTION TUBE Ø6.3	01	COPPER COATED STEEL TUBE (2)	
12	PLUG SUCTION/RETURN M8X1.0	02	FREE CUTTING BRASS	
13	FILTER	01	NYLON - 6	
14	CONNECTOR SEALING RING	01	NBR+PVC (70:30), COLOUR-BLACK	
15	SENSOR HEAD SEALING RING	01	NBR COLOUR-BLACK	
16	ENGINE SUCTION PLUG M14X1.5	01		

FREE CUTTING STEEL HEX ROD

VIEW FROM ARROW X'_

17 ENGINE RETURN PLUG M12X1.5



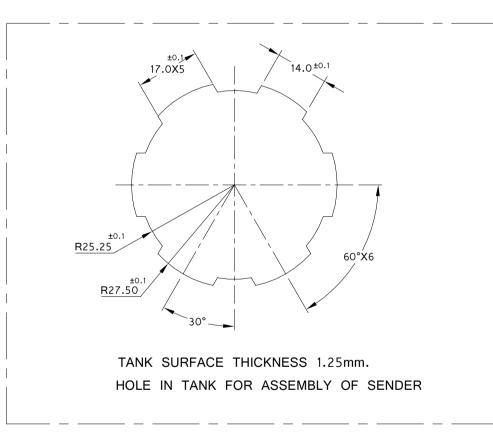
TERMINATION: 4PIN CONNECTION

VIEW OF CONNECTOR SHOWN FROM CONNECTOR MATING SIDE TYPE: MOLDED CONNECTOR

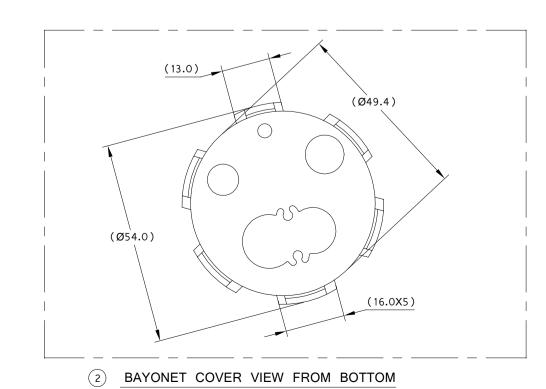
2 HOUSING: 'AMP' Pt. NO.-282106-1

TERMINAL BLADE (M): 'AMP' Pt. NO.-282109-1

MATING CONNECTOR HOUSING: 'AMP' 282088-1



▲ FUEL TANK HOLE VIEW `C'



ONLY FOR REF.

