

NOTES :

- 1.0 PERFORMANCE REQUIREMENTS :
 - 1.1 DUAL SPECTRUM - UV & IR.
 - 1.2 OPTICAL FIELD OF VIEW - 90°.
 - 1.3 SENSITIVITY THRESHOLD A 5inch DIA COLD FUEL OIL PAN FIRE AT 20inch.
 - 1.4 EXPLOSION RESPONSE SHALL BE LESS THAN 2 MILLISECONDS.
 - 1.5 THE OPTICAL DETECTOR ASSY SHALL BE > 80% SUCCESSFUL IN DISCRIMINATING AGAINST ENERGY FROM AN M2BA2 HIGH ENERGY ANTI-TANK PROJECTILE THAT PASSES INTO OR THROUGH THE VEHICLE ARMORE WITHOUT INITIATING A HYDROCARBON FIRE.
 - 1.6 FALSE ALARM SUSCEPTIBILITY : NO FALSE ALARMS WHEN SUBJECTED TO THE FOLLOWING DIRECT, INDIRECT, RAPID SOURCES AS MENTIONED IN SYSTEM SPECIFICATION.
 - 1.7 INPUT POWER - 13.5-22VDC AND 20 MILLIAMPS MAXIMUM.
 - 1.8 OUTPUT SIGNAL - 9.0 VOLTS MINIMUM VARIABLE DURATION.

2.0 ENVIRONMENTAL REQUIREMENTS : THE SENSOR SHALL PERFORM AS SPECIFIED IN NOTE 1 AFTER SUBJECTION TO THE FOLLOWING ENVIRONMENTAL TESTS WHETHER IMPOSED INDIVIDUALLY AND/OR IN ANY COMBINATION THEREOF.

- 2.1 OPERATION TEMPERATURE -40°F-160°F.
- STORAGE TEMPERATURE -67°F-160°F.

2.2 ENVIRONMENTAL TESTS

- HIGH TEMPERATURE : MIL-STD-810E, METHOD 501.3
 LOW TEMPERATURE : MIL-STD-810E, METHOD 502.3, PROCEDURE I & II
 HUMIDITY : MIL-STD-810E, METHOD 507.3, PROCEDURE III
 VIBRATION : MIL-STD-810E, METHOD 514.4, TEST PROCEDURE I
 SHOCK : MIL-STD-810E, METHOD 516.4, PROCEDURE I
 WATERPROOFNESS : MIL-STD-810E, METHOD 512.3, PROCEDURE I
 DUST : MIL-STD-810E, METHOD 510.3, PROCEDURE I
 SALT FOG : MIL-STD-810E, METHOD 509.3, PROCEDURE I

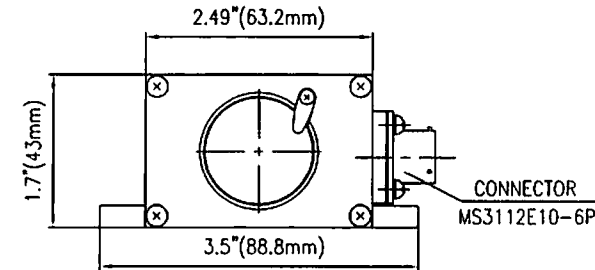
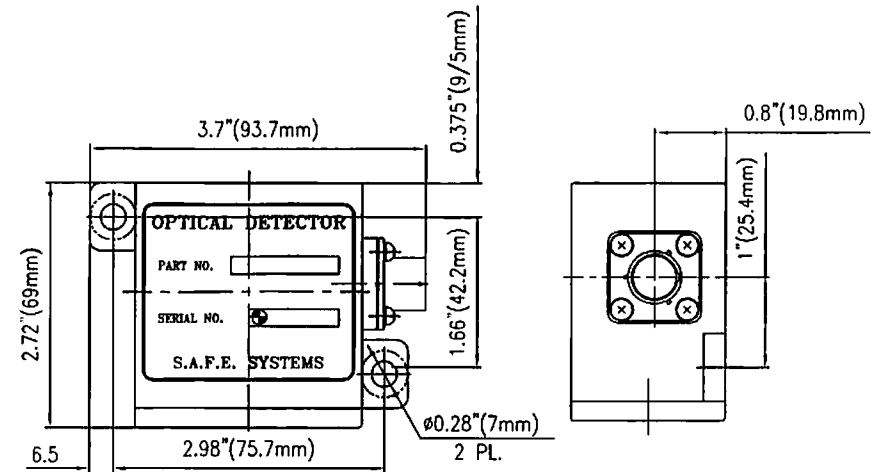
3. CONNECTOR RECEPTACLE SHALL BE ELECTRICALLY CONDUCTIVE AND CONNECTED ELECTRICALLY TO THE SENSOR HOUSING TO EFFECT TERMINATION OF THE CABLE HARNESS SHIELD TO THE SENSOR HOUSING.

4. ELECTRICAL COMPLIANCE TESTS

- INPUT VOLTAGE RANGE : 13.5-22VDC
 REVERSAL OF POLARITY : CHANGING OF POWER SUPPLY POLARITY FOR AN INDEFINITE PERIOD WITHOUT CAUSING ANY DAMAGE OR FALSE OPERATION, AND REVERSING AGAIN FOR NORMAL OPERATION.
 VOLTAGE STEP-UP REGULATION : SLOW, GRADUAL OR STEP CHANGES FROM 0V TO 40V AND 40V TO 0V WITH NO FALSE OPERATION OF THE SYSTEM.

5. SHIELDING REQUIREMENTS :

THE INTERFACE CONNECTOR SHALL BE ELECTRICALLY CONDUCTIVE AND CONNECTED ELECTRICALLY TO THE MOUNTING FLANGE. RESISTANCE BETWEEN THE CONNECTOR SHELL AND HOUSING MOUNTING FLANGE SHALL BE 2.5 MILLIOHMS MAXIMUM, WITH ADJUSTMENTS OF THE CONNECTOR MOUNTING ALLOWED.



16.5V	A
RETURN	B
BIT REQUEST/DETECTOR OUTPUT	C
SPARE	D
RS485 -	E
RS485 +	F

WEIGHT : 0.6Lb (0.25Kg)

E		16.04.07	
D		19.10.06	
C		15.06.06	
B		4.12.03	
A		9.10.03	

SYN	DESCRIPTION	DATE	APPROVAL	ITEM	QUAN	PART NO.	CAT. NO.	DESCRIPTION
REVISIONS				PARTS LIST				
TOLERANCES		SCALE 1:1		DIMENSIONS ARE		SPECTREX INC.		
MM / DEGREES /		TRACED PETER 16.07.03		IN MM				
MATERIAL		DRAWN NELA 16.07.03		SURFACE TEXTURE		OPTICAL DETECTOR ASSY		
		CHECKED		AS PER ANSI-B46.1				
		SUBMITTED		APPROVED		SITE C PWS NO. OL-760002 SHEET 1 OF 1		
NEXT ASSY								