

DC VOLTAGE SENSORS

DARE DC Voltage Sensors monitor input voltages ranging from 3 to 500 volts DC with a trip point accuracy of up to 1% in airborne, military and ground power applications. Using internal electronic circuits to detect, monitor and/or sense DC voltage, DARE DC voltage sensors, monitors, and voltage sensing relays can open or close a circuit when a certain pre-set over or under voltage condition exists or the DC voltage falls outside the specified voltage band window. The most common DC voltage sensors are designed to monitor 28 VDC and protect system equipment and circuitry from voltage that is hazardous or unsuitable for operation.



DESIGN FEATURES

- Under-voltage, over-voltage, or voltage band models
- Powered from sensing input lines or from separate AC or DC supply
- Solid State or Relay output configurations from SPDT - 4PDT up to 25 amps
- Available with time delays on pull-in and/or drop-out or with customized voltage-time trip curves
- Hermetic or gasket sealed models
- Wide variety of finishes, enclosures, connectors, and mounting arrangements

GENERAL SPECIFICATIONS

ELECTRICAL Input (Operating)		ENVIRONMENTAL	
Nominal Voltage:	As Required*	Temperature:	Per MIL-STD-810, Methods 501 & 502
Nominal Frequency:	DC/50/60/400 Hz.	Operating:	-40°C to +85°C
Voltage Transient:	Per MIL-STD-704	-or-	-55°C to +125°C
Input (Sense)		Storage:	-65°C to +150°C
Under-Voltage Set Point:	As Required*	Vibration:	Per MIL-STD-810, Method 514, Procedure I 10-2000 Hz., 20 G's
Over-Voltage Set Point:	As Required*	Acceleration:	Per MIL-STD-810, Method 513, Procedure I and II, ±10 G's
Voltage Band:	As Required*	Shock:	Per MIL-STD-810, Method 516 Procedure I, 50 G's - 11 ms
Trip Point Accuracy:	±1%, ±5%, ±10%	Humidity:	Per MIL-STD-810, Method 507, Procedure II
Pull-In Time Delay:	As Required*	Altitude:	Per MIL-STD-810, Method 504, Category 6 Equipment, Sea Level to 70,000 Ft.
Drop-Out Time Delay:	As Required*	CONSTRUCTION	
OUTPUT CONTACTS			
Configuration:	SPDT, 2PDT, 3PDT	Enclosure:	Hermetically sealed and Encapsulated, or gasket sealed
Contact Rating @ 28 VDC		Connector:	Glass to Metal seal, Solder Hook, or MS3113H type connector on request
Resistive:	2 A	10 A	Various finishes available
Inductive:	.75 A	6 A	
Contact Life:	50,000 operations, minimum	Finish:	
Contact Resistance, Initial:	.075 ohms, maximum		
Dielectric Strength:	1000 VRMS @ 60 Hz		
Insulation Resistance:	100 megohms @ 500 Vdc		

* These parameters can be custom specified to ensure maximum performance and reliability for any application

* Contact factory for special requirements

CALL 1-800-FON-DARE

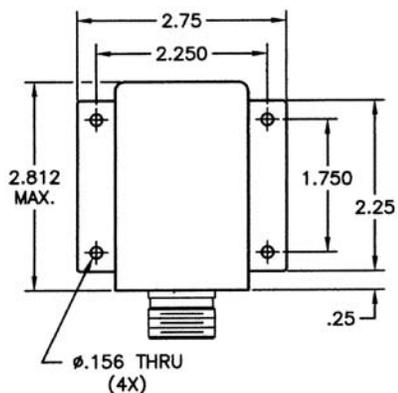


DARE[®] Electronics, Inc.

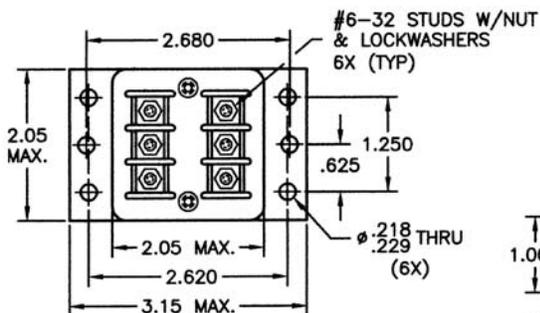
3245 S. County Rd. 25A, Troy, Ohio 45373
Phone (937) 335-0031 Fax (937) 339-6948

DC VOLTAGE SENSORS

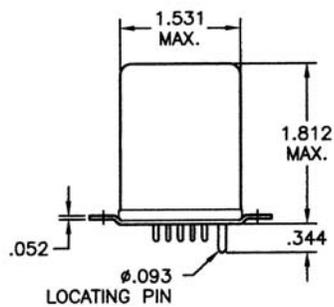
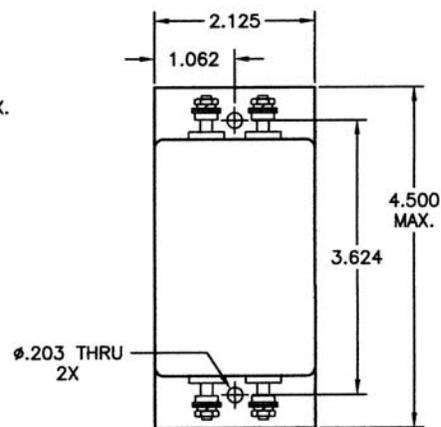
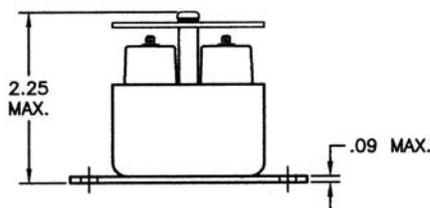
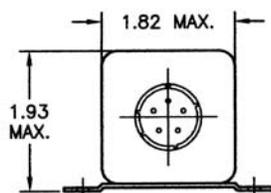
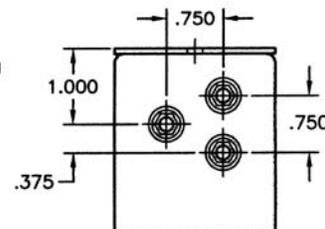
STANDARD ENCLOSURE STYLES



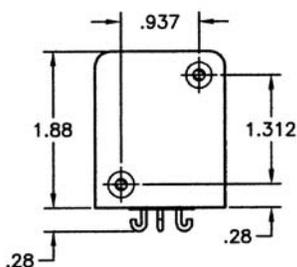
MODEL "A"



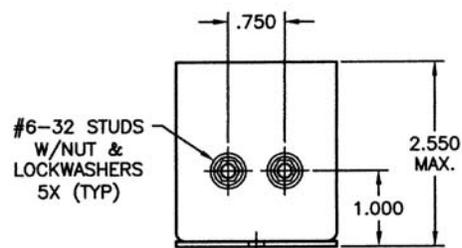
MODEL "B"



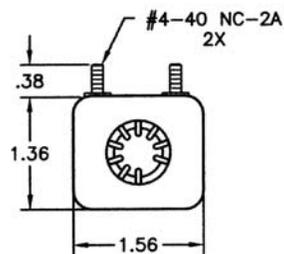
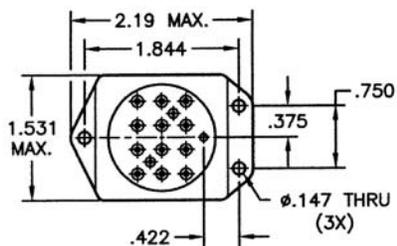
MODEL "C"



MODEL "D"



MODEL "E"



Contact Factory for Additional Styles & Options

CALL 1-800-FON-DARE