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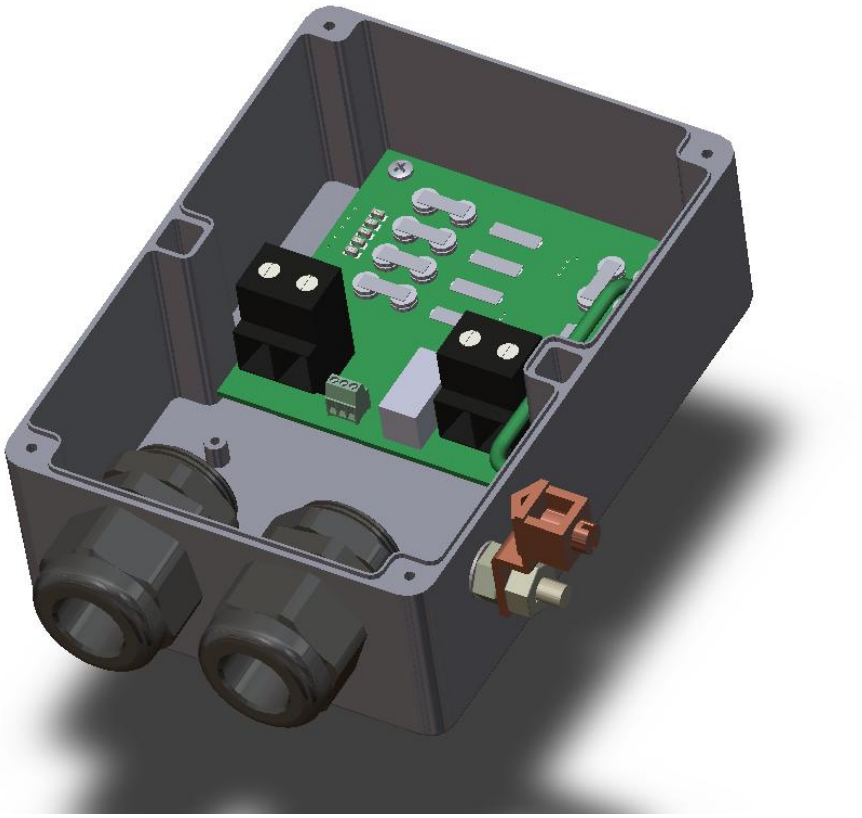
REVISIONS

LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
A	ORIGINAL RELEASE	DD48431	6/4/10	JDW
B	ADD PROTECTION LEVEL	9161	11/30/10	MPD
C	UPDATE FIG. 1 - & + SYMBOLS	9764		



DRAWN: JDW	DATE 4/20/10	
CHECKED: HMB	6/4/10	
ENGR. APPD: RLG	6/4/10	
PROJ. APPD: JDW	6/4/10	
APPROVED:		

TRANSTECTOR

SPECIFICATION
DCOD PROTECTOR SERIES

NOTICE: THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF TRANSTECTOR SYSTEMS. WHO RESERVES ALL RIGHTS THERETO

SIZE	CAGE	DRAWING NUMBER	REV
A	30992	1400-681	C

SCALE = N/A

Outdoor rated DC protectors for 24VDC and 48VDC applications

Part Number	Description
1101-1024	24 VDC outdoor protector 2.5 kA
1101-1025	48 VDC outdoor protector 2.5 kA
1101-1026	24 VDC outdoor protector 5 kA
1101-1027	48 VDC outdoor protector 5 kA

GENERAL DESCRIPTION: The DCOD series of products are SASD based devices that offer non-degrading, silicon protection for DC power supplies up to 25 amps. The DCOD series is offered in an outdoor NEMA 3R rated plastic enclosure. The DCOD series offers + to -, + to ground and - to ground protection. Remote annunciation is provided via form-c contacts rated at 2 amps.

1. ELECTRICAL FEATURES:

1.1. Protected Modes ..... DC + to DC -, DC+ to Ground, DC- to Ground

1.2. 24 Volt versions (1101-1024 and 1101-1026)

1.2.1. Nominal Service Voltages:.....24 VDC

1.2.2. MCOV ..... 44 VDC

1.2.3. Maximum Line Current .....25 Amps

1.2.4. Nominal Discharge Current

1.2.4.1. 2.5 kA version (1101-1024, 1025) .....2.5 kA per protection mode

1.2.4.2. . **5 kA version** (1101-1026, 1027) .....5 kA per protection mode

1.2.5. Voltage Protection Level with 500 Amp 8/20 µs waveform

1.2.5.1. 48 Vdc.....100V

1.2.5.2. 24 Vdc.....50V

1.3. 48 Volt versions (1101-1025 and 1101-1027)

1.3.1. Nominal Service Voltages:.....48 VDC

1.3.2. MCOV: ..... 88 VDC

1.3.3. Maximum Line Current.....25 Amps

1.3.4. Nominal Discharge Current

1.3.4.1. 2.5 kA version (1101-1025) .....2.5 kA per protection mode

1.3.4.2. . **5 kA version** (1101-1027).....5 kA per protection mode

1.4. Response Time .....5 nanoseconds

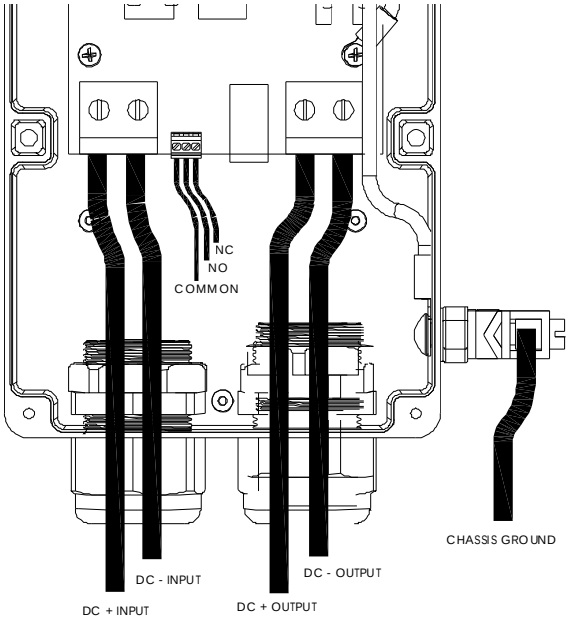


Figure 1. Wiring Diagram

2. **ENVIRONMENTAL:**
   - **2.1. Enclosure Rating** ..... Designed to meet NEMA 3R or IP-55
   - **2.2. Storage Temperature:** ..... -40°C to +85°C
   - **2.3. Operating Temperature:** ..... -40°C to +85°C
   - **2.4. Flame Rating** ..... UL 94-V5

3. **MECHANICAL (refer to Figure 2):**
   - **3.1. Installation Instruction Document Number** 1200-350
   - **3.2. DC Power Input/Output Connections** ..... Screw Terminal
     - **3.2.1. Wire Range:** ..... #20 to #6 AWG
     - **3.2.2. Terminal Torque:** ..... 10 lb-in
   - **3.3. Remote Indication:** ..... 3 pin NO/C contacts
     - **3.3.1. Remote contact wire range:** ..... #16 to #30 AWG
     - **3.3.2. Remote contact current rating** ..... 2 Amps
   - **3.4. Ground Connection** ..... External Compression Lug
     - **3.4.1. Wire Range** ..... #4-14 AWG
   - **3.5. Enclosure**
     - **3.5.1. Dimensions:** ..... 2.5”H x 5.87” W x 7.19” D (63.5mm x 149.22mm x 182.57mm)
     - **3.5.2. Mounting:** ..... #8 screws 4” centers (see Figure 2)
     - **3.5.3. Pole Mount Adapter** ..... Model 1000-1164
     - **3.5.4. DC Power Cable Strain Reliefs** ..... Accepts cable diameters of .450” to .705”

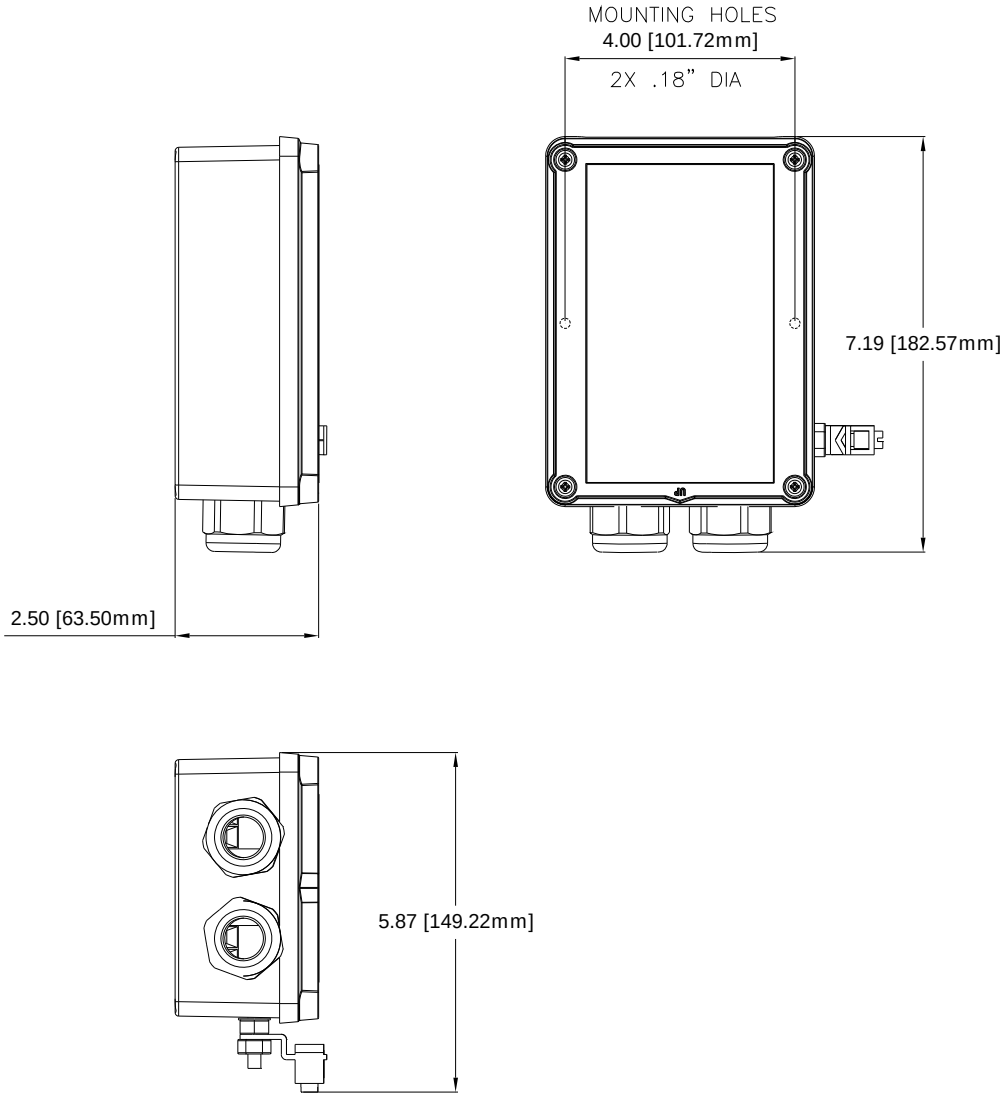


Figure 2. Mechanical Outline Drawing