

Model	MCOV
DRDC-7	13 Vdc
DRDC-12	16 Vdc
DRDC-24	32 Vdc
DRDC-48	64 Vdc
DRDC-70	118 Vdc

Installation Instructions

DRDC Series



800.882.9110 | 208.772.8515 | www.transtector.com

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Thank you for your recent purchase of our surge protection solution. Your satisfaction with our product and service is important to us. If you have any questions, comments or concerns, please contact us at 800.882.9110 or visit our website at www.transtector.com. We look forward to continuing to serve your protection needs.

Class I, Zone 2 AEX/Ex nA IIC T4 Tamb = -40°C to +65°C
 Class I, Division 2, Groups A, B, C, D;
 T4A Tamb = -40°C to +65°C

APPROVED

II 3 G Ex nA IIC T4 Gc
 Tamb = -40°C to +65°C
 FM10ATEX002X.

(DRDC 7V, 12V, 24V & 48V MODELS)

Warning

1. Use each model on specified data application only!
2. The suppressor will interrupt communications in the event of self sacrifice.
3. WARNING – EXPLOSION HAZARD. SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2. AVERTISSEMENT – RISQUE D'EXPLOSION. LE REMPLACEMENT DE COMPOSANTS PEUT NUIRE À LA CONFORMITÉ DE CLASSE I, DIVISION 2.

Installation Instructions

DRDC Series

1. These products are intended for use only on data & power circuits with operating voltage not to exceed the product rating (see chart on reverse), and operating currents not to exceed 10A. The DRDC products are approved for use in nonincendive equipment in Class I, Division 2, Groups A, B, C and D; equipment protection by non-sparking equipment AEx/Ex nA for use in Class I, Zone 2, Group IIC, hazardous (classified) locations; and ordinary (unclassified) locations with an ambient temperature rating of -40°C to +65°C, indoor environments.

2. Installing the DRDC Series

2.1 In types of protection suitable/non-sparking equipment, the surge suppressor (DRDC Series) equipment is designated with the following specific conditions of use: The equipment shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.

2.1.1 In types of protection non-sparking equipment, the component protector (DRDC Series) equipment is designated with the following specific conditions of use:

When installed as category 3 equipment the DRDC Series surge suppressor shall be mounted within a tool secure enclosure which meets the requirements of EN 60079-0 and EN 60079-15 and is capable of accepting the applicable wiring methods specified in EN 60079-14. When installed in outdoor or potentially wet locations, the enclosure shall, at a minimum, meet the requirements of IP54. When installed in locations providing adequate protection against the entry of solid foreign objects or water capable of impairing safety, the enclosure shall, at a minimum, meet the requirements of IP4X. The final enclosure shall not contain more than 7.5% in total magnesium.

2.2 Mount the device as close as possible to the equipment to be protected.

2.3 Mounting, Mechanical: Install the product onto standard 35mm DIN-Rail using the Self Grounding foot. Engage the metal grounding clip onto the rail first, then snap into place. To remove the device, apply force on the lever provided on the foot using a flathead screw driver.

Note: Din-Rail must be connected to a solid Earth ground for proper suppressor operation.

2.4 Wiring: Connect each DC power or signal pair to the numbered 24-12AWG screw terminals according to the following legend (Input->Output):

Pair 1	Pair 2
1->7	3->5
2->8	4->6

2.5 Wiring the Shield: If a shielded cable is utilized, use the pass-thru terminal blocks contained in the packaging supplies to secure the shield for each pair.

2.6 Molded from R/C (QMFZ2), Cat. No. B3UG4, designated Ultramid manufactured by BASF Aktiengesellschaft.

3. Replacing DRDC Series Suppressor Modules

3.1 Annunciation: In the case of failure, the suppressor module will interrupt the DC power/signal path.

3.2 Replacing the module: To replace the suppressor module, simply pull the failed module out of the base and reinstall a new one ensuring that the module is correctly oriented with the slot in the base.

