

DeltaV Electronic Marshalling

August 2026

The **Relay Output Terminal Block** is designed for high output current applications and requires the DO 24V DC High-side CHARM to drive the relay coil. The Relay Output Term blocks provide a normally open and normally closed contact with the following ratings:

- 28.8V DC at 5 A switching current
- 48V DC at 0.4 A switching current
- 110V DC at 0.2 A switching current
- 250V AC at 5 A switching current

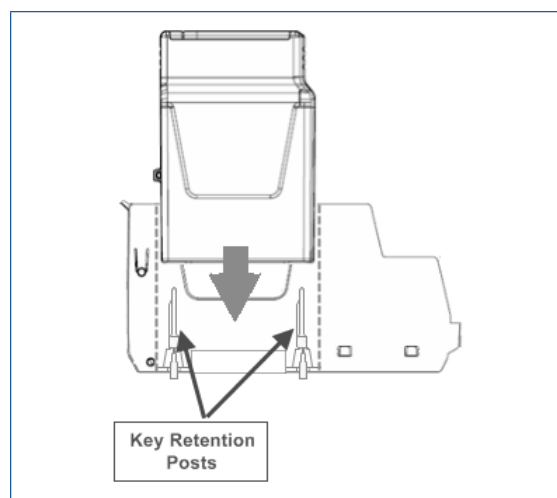
The **Thermocouple / mV Terminal Block** is specially designed for the usage with the Thermocouple / mV CHARM. The Thermocouple / mV Terminal Block has fixed key positions to prevent a mismatch in the field and can only be ordered as an Assembly with the Thermocouple / mV CHARM.

The **3-wire AI Fused Injected Power Terminal Block** is designed for 3 wire analog transmitters and can be used with the AI 4-20mA HART CHARM. The field power is supplied from the injected power bus on the baseplate, but the power is not removed from the field device when the AI CHARM is removed from the baseplate. There is a Green LED on the terminal block that indicated power is supplied to the field and the 2A fuse also functions as a means to disconnect power from the field device. Although this terminal block was introduced in 2017, it is backwards compatible to any version of DeltaV with Electronic Marshalling.

Although any signal type can be installed in any location on the CHARM baseplates, it is recommended that AC voltage circuits be separated from low voltage signals to comply with safety recommendations and to mitigate induced noise in the signals. Standard Terminal blocks, Fused Injected Power terminal blocks and Relay Output Blocks can be used on the same carrier; typically, to allow the use of DO 24V DC isolated CHARMS on higher wattage and 3-wire devices alongside of standard 24V DC instrumentation signals or relay contacts.

CHARM Keying Posts

The Terminal Blocks contain keying posts that are automatically set and locked to the unique position of the installed CHARM. The keys prevent the insertion of an incorrect CHARM during maintenance activities. They are shipped in a neutral position and are set when a CHARM is inserted. If needed, the keys can be manually reset to allow a channel to be re-tasked for a different signal type.



CHARM Standard Terminal block.

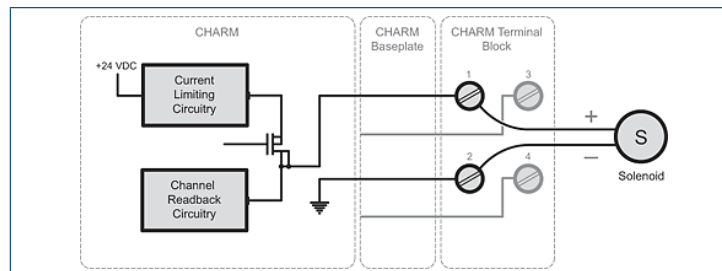
The keying mechanism consists of two keying posts that rotate and lock into the terminal block base. Each CHARM type is assigned a unique key setting.

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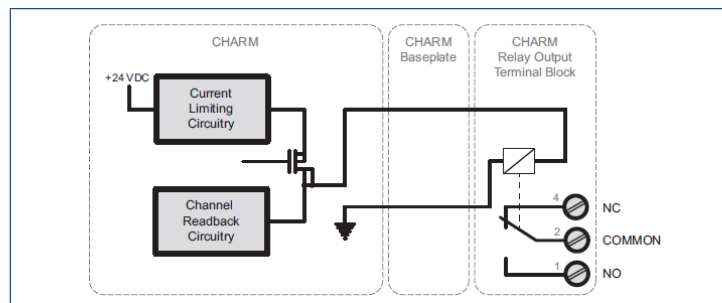
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Discrete Output 24V DC High-Side CHARM

Specifications for DO 24V DC High-Side CHARM	
Device Type	24V DC Solenoid coils
On State Output Rating	100 mA continuous @ 24V DC
Off State Leakage Current	1 mA maximum
Line Fault Detection	- Guaranteed short circuit: $<50\ \Omega$ load - Guaranteed good status: $240\ \Omega$ to $10\ \text{k}\Omega$ load - Guaranteed open circuit: $>20\ \text{k}\Omega$ load
Configurable Output Behavior	- Momentary Output - Continuous Pulse Output - Line fault testing
Line Fault Test Timing	200 μsec
Field Circuit Protection	200 mA Current Limiting Circuit - Field wiring disconnect
CHARM Power Req.	116 mA max @ 24 V DC - Standard Terminal Block 24 mA max @ 24 V DC - Relay Output Terminal Block
CHARM Heat Dissipation	0.44 W - Standard Terminal Block 0.61 W - Relay Output Terminal Block



Simplified Circuit and Connection Diagram for DO 24V DC High Side CHARM.



Simplified Circuit and Connection Diagram for DO 24V DC High Side CHARM with CHARM Relay Output Terminal Block.

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Low Voltage Instrumentation CHARMs	
Description	Model Number
DI NAMUR	SE4301T01
DI 24V DC Low-Side Sense (Dry Contact)	SE4301T02
DI 24V DC Isolated	SE4301T07
DO 24V DC High-Side	SE4302T01
DO 24V DC Isolated	SE4302T02
DO 24V DC 100mA Energy Limited	SE4302T04
24V DC Power	SE4302T05
AI 4-20 mA HART	SE4303T01
Thermocouple/mV Input	SE4303T02
RTD Input	SE4303T03
AI 0-10V DC Isolated	SE4303T04
AO 4-20 mA HART	SE4304T01

High Voltage Instrumentation CHARMs	
Description	Model Number
DI 120V AC Isolated	SE4301T03
DI 120V AC Isolated Plus	SE4301T05
DI 230V AC Isolated	SE4301T04
DO V AC Isolated	SE4302T03

Low Voltage Instrumentation CHARMs and Terminal Block Assemblies	
Description	Model Number
DO 24V DC High-Side CHARM with Relay Output Terminal Block	SE4302T51
Thermocouple/mV Input CHARM with Thermocouple/mV Terminal Block	SE4303T52
24V DC Power CHARM with Fused-Injected-Power Terminal Block	SE4302T55



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