XD Series Flex L Single/Double/Triple

Bi-Stable Lithium Battery Relays & VSR/ACRs

Designed for Lithium-ion, Lithium Polymer, and Lithium Iron Phosphate Battery Systems Where Required Charge / Discharge Voltage Settings Require Higher Available Settings

500 Amp Continuous Capability Per Relay / Extremely Compact Footprint

Available With or Without Intuitive Front Facing Manual Override Knobs with Ability to Lock Relays ON or OFF for Servicing

Flexible Functionality via Dip Switches, utilize each as a Relay/Battery Disconnect, Voltage Sensing Relay, or Low Voltage Disconnect

Remote ON/OFF/Auto Inputs to Force Each Relay Closed, Open, or Allowing Automatic Operation Based on Voltage Sensing

Local and Remote LED Indicators Per Relay

Mechanical-Only Battery Switch Option for One or Multiple Relay Positions

PATENT PENDING

Ultra-Low Power Draw: Lowest off-state current draw in industry (1.3 mA) combined.

Simple & Robust Installation: Sealed Deutsch/Amphenol DTM/ATM or DT/AT connectors available. Flying wire harnesses also available.

Flexible Application Options: Install as a Remote Battery Disconnect Switch, Voltage Sensing Relay, or Low Voltage Disconnect. On/Off trigger via external signal and/or alternator voltage sense.

Diagnostic Feedback via optional external LEDs control lines and on-board LEDs for each relay

Bullet-proof Construction: Sealed unit, high temperature materials allow mounting anywhere on vehicle. Integrated thermal overload protection

Optional Manual Override provides power loss backup operation and ability to lock OFF switched loads in order to service downstream circuits.

Meets Stringent OEM Standards for electrical transient self-protection

4 Year Industry Leading Warranty

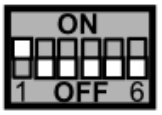
Rev 2 - March 1, 2024

Install Guidelines & Dip Switch Settings

(1) DISCONNECT BATTERY FROM ELECTRICAL SYSTEM BEFORE INSTALLING

(2) INSTALL A 7.5 - 10.0 A FUSE ON THE BLACK GROUND RETURN WIRE

(3) DIP SWITCHES ARE SET FOR EACH INDIVIDUAL RELAY POSITION WITHIN AN XD RELAY WITH TWO OR MORE RELAY POSITIONS



VSR "ON" 2 3 Voltage	VSR "OFF" 4 5 6 Voltage
13.3 / 27.0	12.8/25.6
13.7 / 27.4	12.9/25.8
14.0 / 28.0	13.0/26.0
14.3 / 28.6	13.1/26.2
	13.2/26.4
	13.3/26.6
	13.4/26.8
	13.5/27.0

1 VSR or Relay

VSR

Relay

= Default

DS1: Determines device function. If DS1 = OFF, relay will act as a simple Battery Disconnect Switch Remote Relay. If DS1 = ON, relay will operate as a Voltage Sensing Relay (VSR) and will utilize DS2-DS6 to determine VSR response per individual application requirements

DS2-DS3: Determines 30 sec ON Trigger Voltage, 10 sec ON Voltage is 0.6 (1.2) Vdc higher. Above this voltage, time delay to turning the relay ON is counting until ON event. If voltage is less than this setting, time delay is re-set to 0.

DS4-DS6: Determines OFF Trigger Voltage. See Operational Modes for device response to voltages below this setting. Setting below the batteries stated resting 100% State of Charge Voltage allows accessory loads partial use of start battery energy.

* ON Voltage should beat least 0.2 V above OFF Voltage, otherwise abnormal behavior may result.

General Specifications (Each Relay)

Input Voltage Range (Vdc)	8.0 - 36.0 Auto-Ranging	
Nominal Voltage (Vdc)	12	24
Over Voltage Protection (Vdc) (5 sec)	17.0	34.0
State Change Current (20 msec)	5.0 A	3.0 A
Standby Current (mA)	1.3	1.3
Live Current Switching -50,000 cycles	12V/300A	24V/300A
Mechanical Switching Life	1,000,000 cycles	
2/0 AWG - 30sec/5min/Continuous	1000 / 400 / 225 Amps	
4/0 AWG - 30sec/5min/Continuous	1100 / 400 / 300 Amps	
2x 4/0 AWG - 30sec/5min/Cont.	1600 / 700 / 500 Amps	
Hardware Material	Stainless Steel Self-Locking	
Terminal Stud Torque	120 in-lbs	
LED/Aux Output Max Drive Current	400 milli-Amps	
Typ Source Current for All Ctrl Lines	10 micro-Amps	
Operating Temperature Range	-40 to 105 C	
Ignition Protection	SAE J1171 / ISO 8846	

LED Indicators	Local LED	Rem LED
Relay OFF - Normal	Off	Off
Relay ON - Normal	On	On
Relay On - Pending Off	On w/3x Off Flashes	On
Relay Off - Pending On	Off w/3x On Flashes	Off
Relay Off - Start Isolation Mode	Off w/4x On Flashes	Off
Relay Off - Over-Voltage Mode	Off w/5x On Flashes	Off
Manual Override Engaged	Off w/2x On Flashes	Off w/2x On Flashes
Relay Off - Power Hibernation Mode	Off w/1x On Flash	Off
Power Up / Manual Mode Exited and Pending On or Off Event	Continuous Flashing	Off

Detailed Operational Modes & Responses

Relay Mode - Relay Closes (Turns ON) Immediately if:
1) Voltage on Either Input to Relay > 9 Vdc (minimum operating Voltage) and either any of the following two conditions exist:
2) Rem On/Off Ctrl (Red) wire is connected to +Vdc (maintain if desire is for device to stay Closed) or
3) Momentary ON Signal Wire (Brown) is Connected to +Vdc Until Device Closes, 2-3 Seconds (+Vdc may then remain or be removed while device remains Closed either way)
4) DS1 = Off, Setting Device as an Simple Relay

Relay Mode - Relay Open (Turns OFF) Immediately if:
1) Voltage on Either Input to Relay > 9 Vdc (minimum operating Voltage) and either any of the following three conditions exist:
2) Rem On/Off Ctrl (Red) wire changes from +Vdc to Floating or
3) Rem On/Off Ctrl (Red) wire is connected to Ground (may be momentarily or permanently connected for device to stay Closed) or
4) Momentary OFF Signal Wire (Green) is Connected to +Vdc Until Device Opens, 1-2 Seconds (+Vdc may then remain or be removed while device will remain Open either way)
5) Rem Ctrl (Red) wire and Momentary ON Signal Wire (Brown) must not have +Vdc applied, they will override Off Signal from Green Wire
6) DS1 = Off, Setting Device as an Simple Relay

VSR Mode - Relay Closes (Turns ON) after 30 sec if:
1) Voltage on Either Input > V_On as determined by DS2-DS3 and
2) Rem Ctrl (Red) wire is not connected to +Vdc or Gnd and
3) Start Isolation Input Wires SI#1 (Brown) and SI#2 (Green) Not Connected to +Vdc
4) DS1 = On, Setting Device as an Voltage Sensing Relay (VSR)

VSR Mode - Relay Closes (Turns ON) after 10 sec if:
1) Voltage on Either Input to Relay > V_on + 0.6 V (1.2V if on 24V System) as determined by DS4-DS6 and
2) Rem Ctrl (Red) wire is not connected to +Vdc or Gnd
3) Start Isolation Input Wires SI#1 (Brown) and SI#2 (Green) Not Connected to +Vdc
4) DS1 = On, Setting Device as an Voltage Sensing Relay (VSR)

VSR Mode - Relay Automatically Opens (Turns OFF) if:
1) Voltage on Either Input < V_Off as determined by DS4-DS6 and
2) Rem Ctrl (Red) wire is not connected to +Vdc or Gnd and
3) Start Isolation Input Wires SI#1 (Brown) and SI#2 (Green) are Not Connected to +Vdc and
4) DS1 = On, Setting Device as an Voltage Sensing Relay and
5) At least 120 sec has passed since the device was either forced Closed by the Red input wire or the device automatically Closed and
6) The advanced charge management algorithm has determined that any electrical charging, if operating, is not equal to or great than the electrical loads discharging the connected batteries.

VSR Mode - Relay Opens (Turns OFF) after 15 sec if:
1) Voltage on Either Input to Relay > Over-voltage set point for 15 continuous seconds and
2) Rem Ctrl (Red) wire is not connected to +Vdc or Gnd

VSR Mode - Relay Immediately Closes (Turns ON) Immediately if:
1) Voltage on Either Input > 9 Vdc (minimum operating Vdc) and
2) Rem Ctrl (Red) wire is connected to +Vdc

VSR Mode - Relay Immediately Opens (Turns OFF) immediately if:
1) Voltage on Either Input to Relay > 9 Vdc (minimum operating Voltage) and either any of the following three conditions exist:
2) Rem Ctrl (Red) wire is connected to Gnd
3) Start Isolation Input Wire SI#1 (Brown) is Connected to +Vdc
4) Start Isolation Input Wire SI#2 (Green) is Connected to +Vdc

VSR Mode - Start Isolation Prevents Voltage Based Automatic Closing:
1) For as long as one or more of the two Start Isolation Lines SI#1 and/or SI#2 have +Vdc applied on the wires
2) For 3 minutes after +Vdc is no longer applied to both Start Isolation Lines SI#1 and/or SI#2 have +Vdc applied on the wires

Manual Override Prevents Remote or Voltage Based Open or Closing:
1) For as long as the manual knob (if equipped) is not positioned in the "Auto/Rem" orientation

Upon Startup or Returning Device from Manual to Auto/Rem Mode:
1) The remote LED will remain OFF regardless of the physical status of the VSR until the VSR is remotely forced ON/OFF or automatically attempts to turn itself ON/OFF.
2) The local LED will rapid flash if the device has an input voltage that would dictate a pending ON or OFF is necessary.

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Fig 1 - Relay Mode - Control Wiring Options

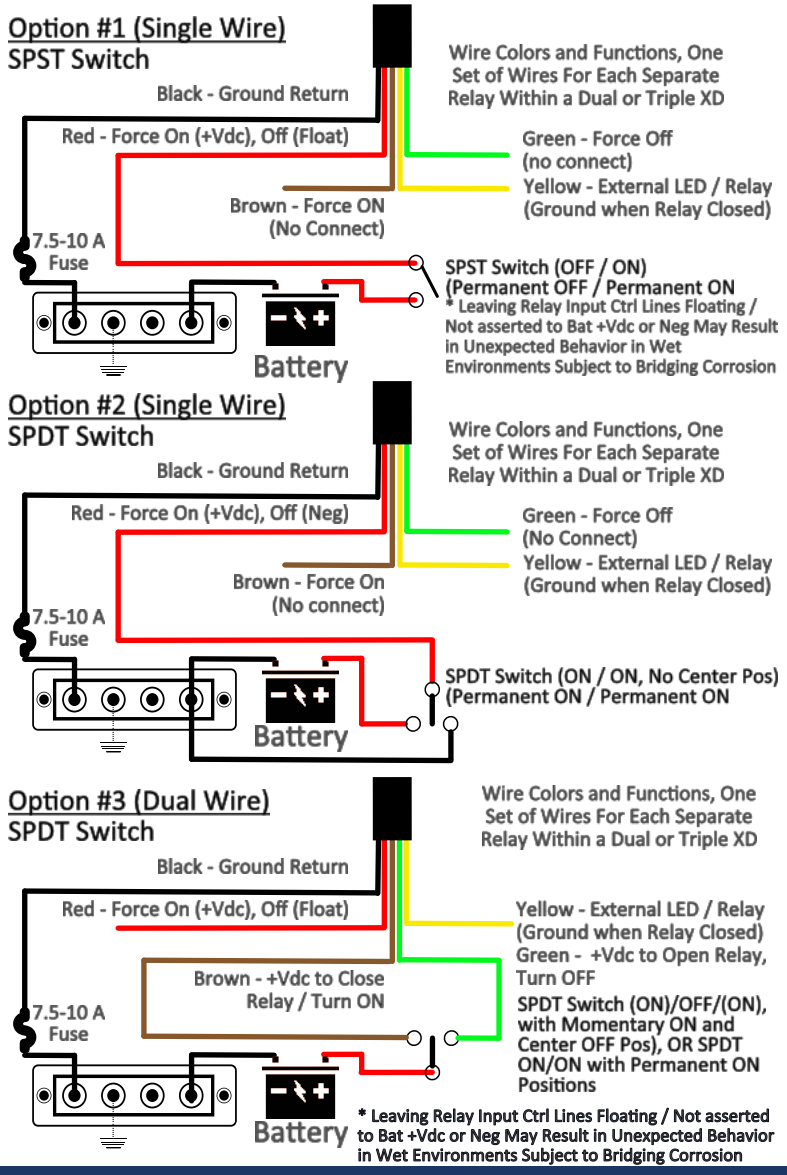
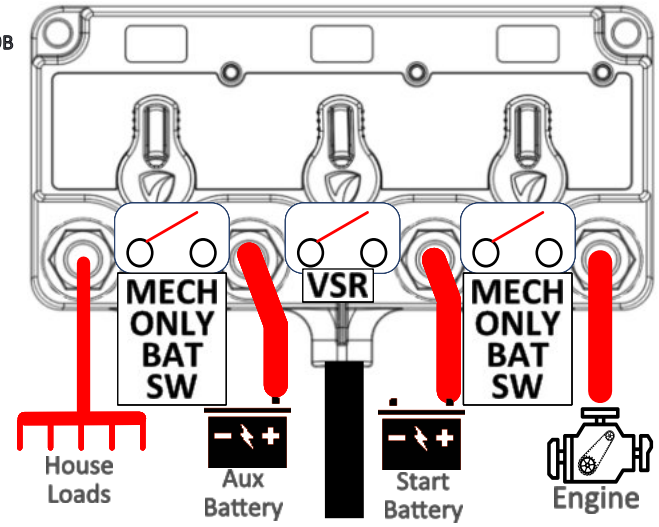


Fig 2 - Mechanical Only Contactor Option

XD Series Single, Dual, and Triple XD Relays are available with one or more positions constructed as a mechanical only battery switch / mechanical contactor. This offers the option for certain application a more cost effective solution to variations with all relay positions that are remote relays. See examples below

Example:
8730-1939B



Example:
8720-1930B

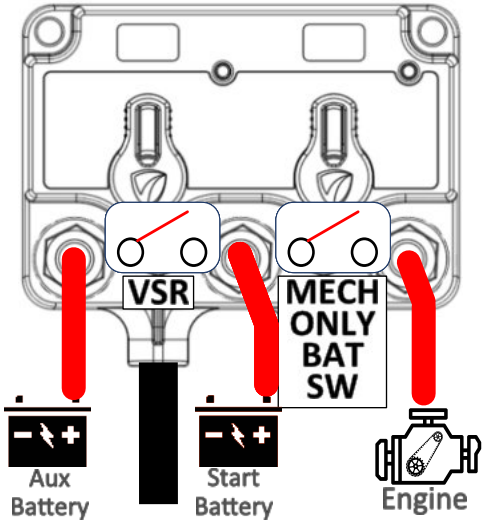
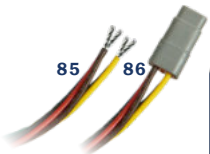


Fig 3 - XD Series Part Number Guide

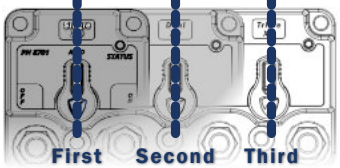
8530 - 1535B

1 = Single Circuit XD Relay
2 = Dual Circuit XD Relay
3 = Triple Circuit XD Relay

1 = Standard Configuration
2-9 = Special DT Connector Solution

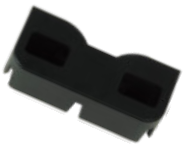


85 = XD Series Flex L (Lithium) w/Tinned Control Wires
86 = XD Series Flex L (Lithium) w/Deutsch Control Connector



0 = Not Applicable (no relay in position)
3 = Flex L Set as ACR w/Knob
4 = Flex L Set as ACR No Knob
5 = Flex L Set as Battery Switch w/Knob
6 = Flex L Set as Battery Switch No Knob
9 = Mechanical Only Switch w/Knob

B = Bulk Packed
(Blank) = Retail Shelf Pack



Protective Terminal Cover Included!

* Custom product configurations available including control harness wires, time delays, voltage settings, dip switch functionality, and control input functionality. Contact support@egismobile.com

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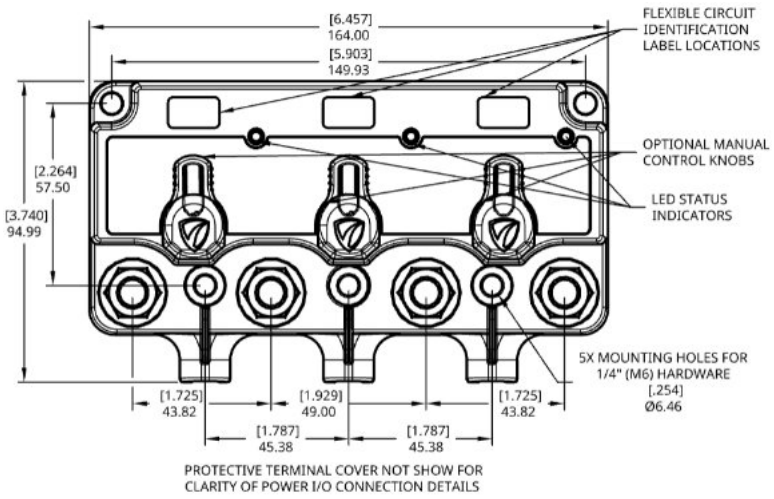
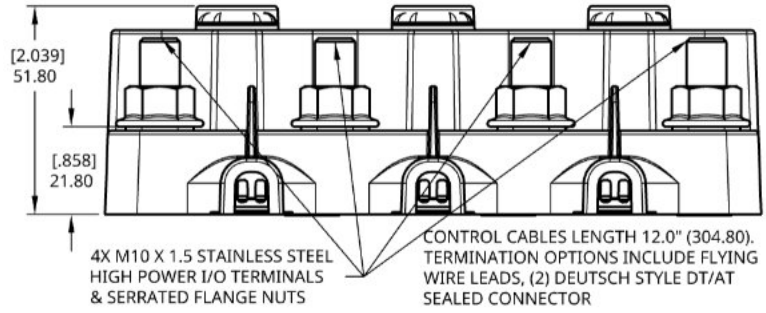
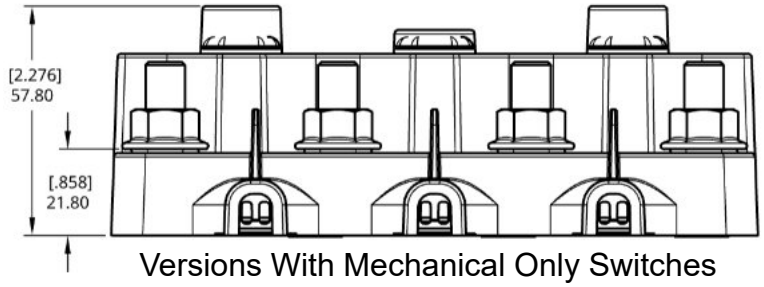
Fig 4 - Triple XD Series - Dimensions

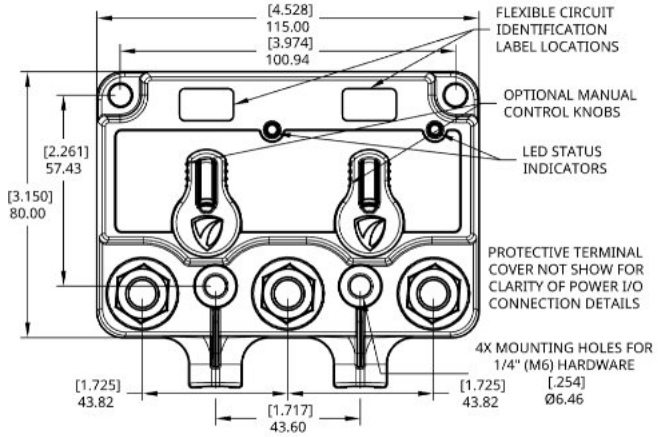






Versions With Mechanical Only Switches

Fig 5 - Dual XD Series - Dimensions



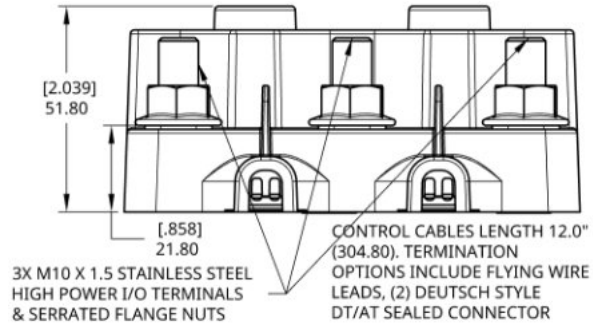
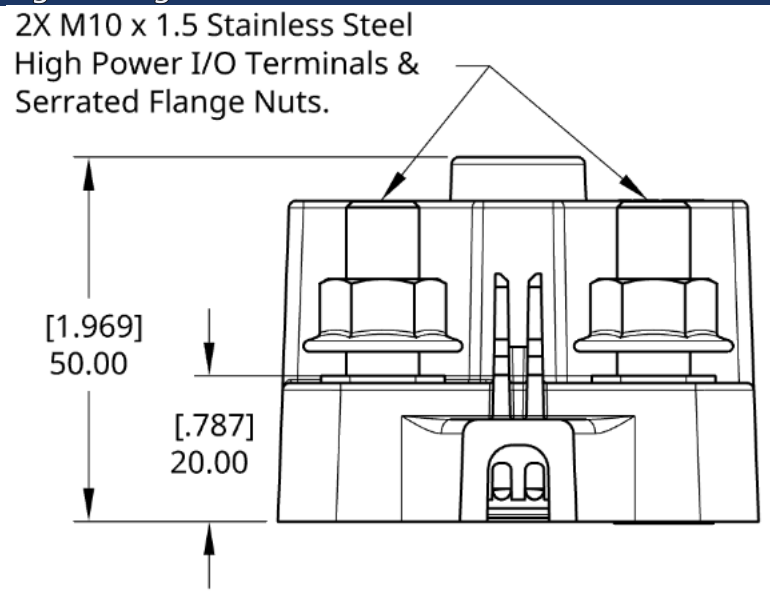


Fig 6 - Single XD Series - Dimensions



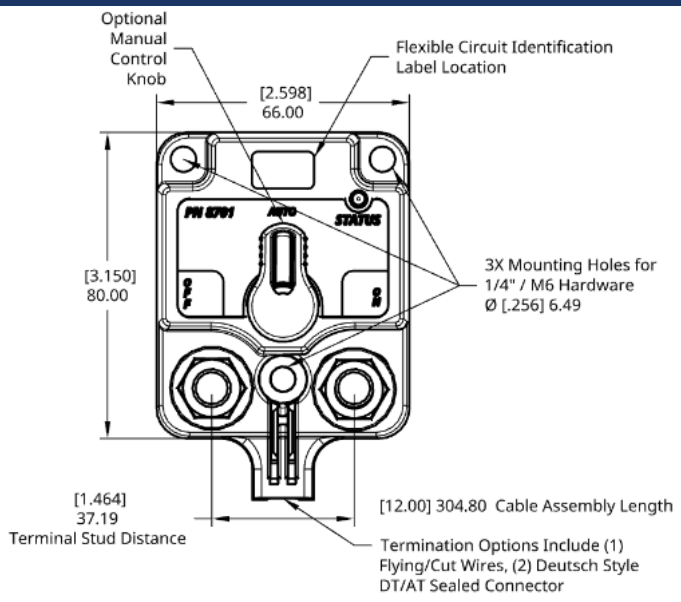


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Fig 7 - Triple XD - 86 Series (DTM Connectors) Diagram (Matches Legacy Remote Relay Solutions)

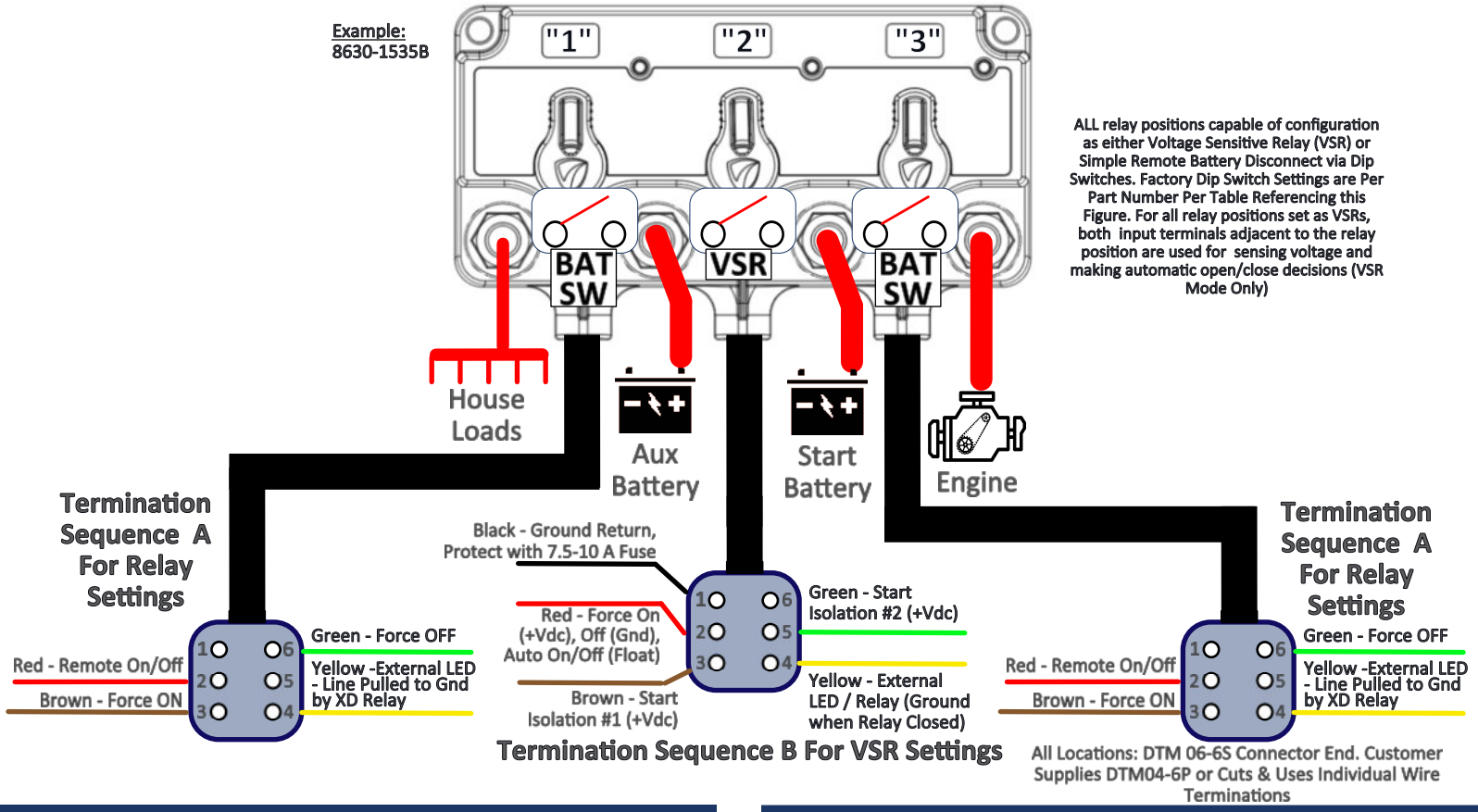
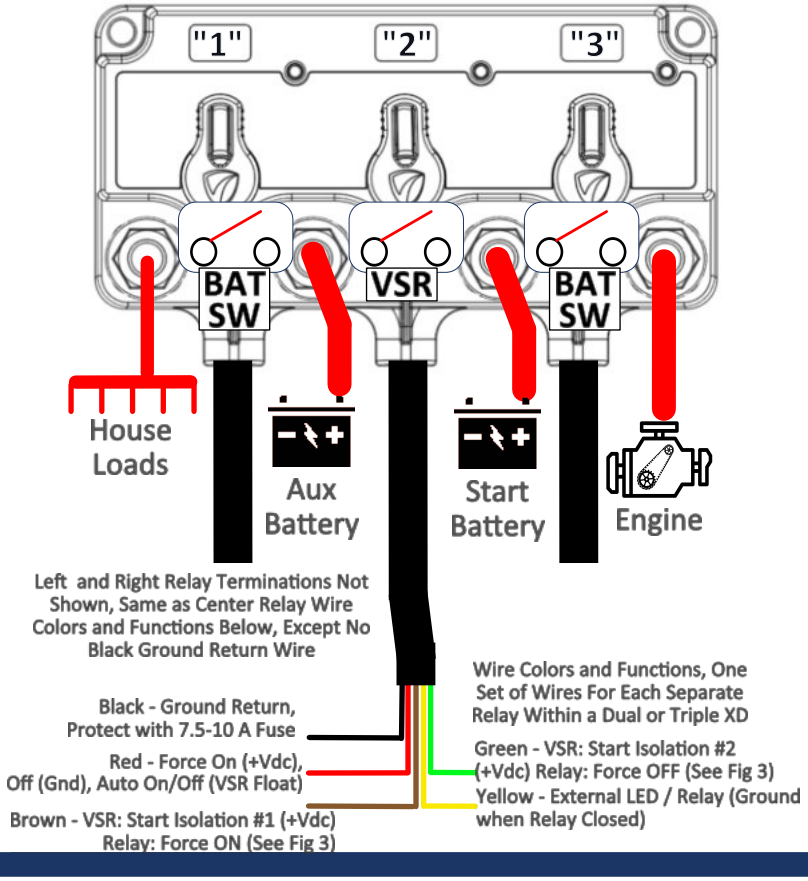


Fig 8 - Triple XD - 85 Series (Connection Diagram)



Triple XD Relay Part Numbers and Dip Switch Settings (Fig 7)

Left Relay		Center Relay		Right Relay		
Knob	Setting	Knob	Setting	Knob	Setting	Bulk PNs
Yes	VSR	Yes	VSR	Yes	VSR	8630-1333B
No	VSR	No	VSR	No	VSR	8630-1444B
Yes	Relay	Yes	VSR	Yes	Relay	8630-1535B
Yes	Relay	No	VSR	Yes	Relay	8630-1545B
Yes	Relay	Yes	Relay	Yes	Relay	8630-1555B
No	Relay	Yes	VSR	No	Relay	8630-1636B
No	Relay	No	VSR	No	Relay	8630-1646B
No	Relay	No	Relay	No	Relay	8630-1666B

Triple XD Relay Part Numbers and Dip Switch Settings (Fig 8)

Left Relay		Center Relay		Right Relay		
Knob	Setting	Knob	Setting	Knob	Setting	Bulk PNs
Yes	VSR	Yes	VSR	Yes	VSR	8530-1333B
No	VSR	No	VSR	No	VSR	8530-1444B
Yes	Relay	Yes	VSR	Yes	Relay	8530-1535B
Yes	Relay	No	VSR	Yes	Relay	8530-1545B
Yes	Relay	Yes	Relay	Yes	Relay	8530-1555B
No	Relay	Yes	VSR	No	Relay	8530-1636B
No	Relay	No	VSR	No	Relay	8530-1646B
No	Relay	No	Relay	No	Relay	8530-1666B

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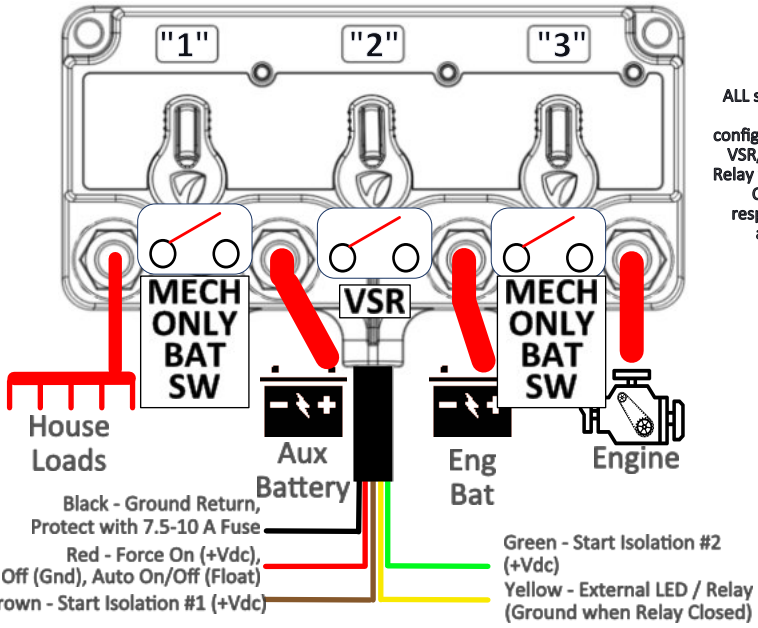
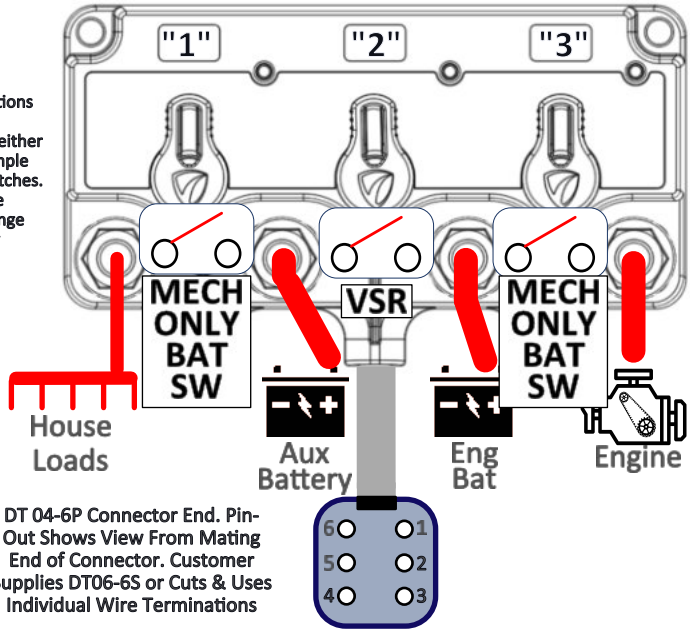
Fig 9 - Triple XD - 85 Series (Mech Only Bat Sw)



ALL switch positions capable of configuration as either VSR/ACR or Simple Relay via Dip Switches. Control wire responses change accordingly

Fig 10 - Triple XD - 86 Series (Mech Only Versions)

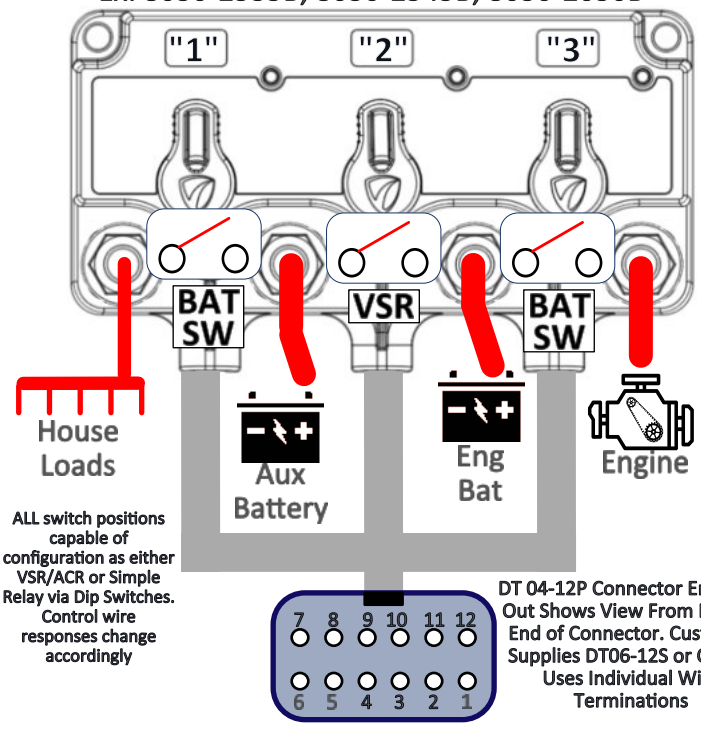


DT 04-6P Connector End. Pin-Out Shows View From Mating End of Connector. Customer Supplies DT06-6S or Cuts & Uses Individual Wire Terminations

6 Pin DT Connector Functions (Fig 10)	Pin #	Wire Color
Ground (Required), Protect w/ 7.5 - 10.0 A Fuse	1	Black
Relay 2 Rem Ctrl Signal (Optional / Recommended)	2	Red
Relay 2 Start Isolation #1 / Relay Mode OFF (+Vdc)	3	Brown
Relay 2 Rem Indicator (Active Low), (Optional)	4	Yellow
Relay 2 Start Isolation #2 / Relay Mode ON (+Vdc)	5	Green

Fig 11 - Triple XD - 86 Series (Single DT Conn)

Ex: 8630-2535B, 8630-2545B, 8630-2636B



ALL switch positions capable of configuration as either VSR/ACR or Simple Relay via Dip Switches. Control wire responses change accordingly

DT 04-12P Connector End. Pin-Out Shows View From Mating End of Connector. Customer Supplies DT06-12S or Cuts & Uses Individual Wire Terminations

12 Pin Connector Functions (Fig 11)	Pin #	Wire Color
Ground (Required), Protect w/ 7.5 - 10.0 A Fuse	1	Black
Relay 1 Rem Ctrl Signal (Optional / Recommended)	2	Red
Relay 1 Rem Indicator (Active Low), (Optional)	3	Yellow
Relay 2 Rem Ctrl Signal (+Vdc/Float/Gnd)	4	Red
Relay 2 Rem Indicator (Optional / Recommended)	5	Yellow
Relay 2 Start Isolation #1 Input (Optional)	6	Brown
Relay 2 Start Isolation #2 Input (Optional)	7	Green
Relay 3 Rem Ctrl Signal (Optional / Recommended)	8	Red
Relay 3 Rem Indicator (Active Low), (Optional)	9	Yellow

Triple XD Relay Part Numbers and Dip Switch Settings (Fig 9 & 10)

Left Relay		Center Relay		Right Relay		
Knob	Setting	Knob	Setting	Knob	Setting	Bulk PNs
Yes	None (1)	Yes	VSR	Yes	None (1)	8530-1939B
Yes	None (1)	No	VSR	Yes	None (1)	8530-1949B
Yes	None (1)	Yes	VSR	Yes	None (1)	8630-1939B
Yes	None (1)	No	VSR	Yes	None (1)	8630-1949B

Triple XD Relay Part Numbers and Dip Switch Settings (Fig 10)

Left Relay		Center Relay		Right Relay		
Knob	Setting	Knob	Setting	Knob	Setting	Bulk PNs
Yes	Relay	Yes	VSR	Yes	Relay	8630-2535B
Yes	Relay	No	VSR	Yes	Relay	8630-2545B
Yes	Relay	Yes	Relay	Yes	Relay	8630-2555B
No	Relay	Yes	VSR	No	Relay	8630-2636B
No	Relay	No	VSR	No	Relay	8630-2646B
No	Relay	No	Relay	No	Relay	8630-2666B

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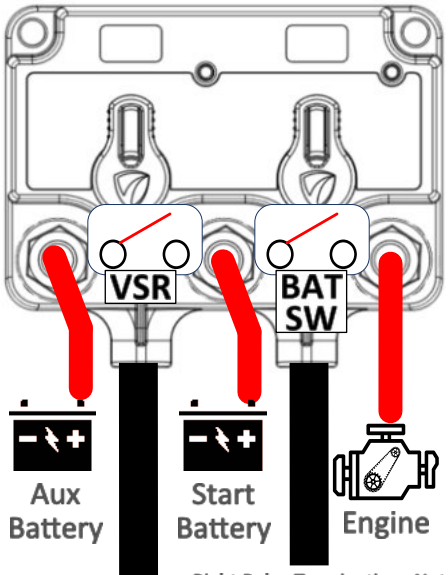
Fig 12 - Dual XD - 85 Series (Flying Wires)

Example:
8520-1530B

ALL switch positions capable of configuration as either VSR/ACR or Simple Relay via Dip Switches. Control wire responses change accordingly



Wire Colors and Functions, One Set of Wires For Each Separate Relay Within a Dual or Triple XD, Only One Black Ground Wire Per Device

Right Relay Terminations Not Shown, Same as Center Relay Wire Colors and Functions Below (Except for "9" Mechanical Only Positions, Where No Control Wires Exit Device). Only One Black Ground Wire Per Device

Black - Ground Return, Protect with 7.5-10 A Fuse

Red - Force On (+Vdc), Off (Gnd), Auto On/Off (Float)

Green - (VSR Mode) Start Isolation #2 (+Vdc); (Relay Mode) Turn OFF (+Vdc)

Brown - (VSR Mode) Start Isolation #1 (+Vdc) (Relay Mode) Turn ON (+Vdc)

Yellow - External LED / Relay (Ground when Relay Closed)

Dual XD Relay Part Numbers and Dip Switch Settings (Fig 12)

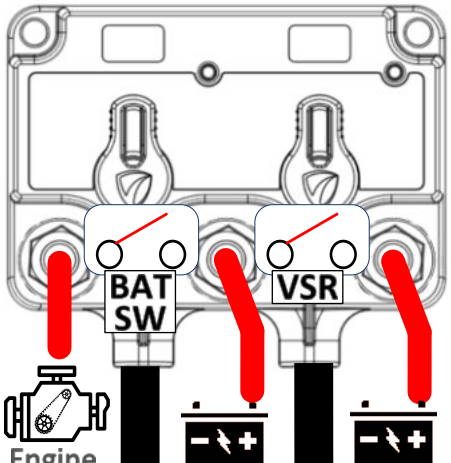
Left Relay		Right Relay		
Knob	Setting	Knob	Setting	Bulk PNs
Yes	VSR	Yes	VSR	8520-1330B
No	VSR	No	VSR	8520-1440B
Yes	VSR	No	Relay	8520-1350B
Yes	Relay	Yes	VSR	8520-1530B
No	VSR	Yes	Relay	8520-1450B
Yes	Relay	No	VSR	8520-1540B
Yes	Relay	Yes	Relay	8520-1550B
No	Relay	No	Relay	8520-1660B
Yes	VSR	Yes	Mech Only	8520-1390B
No	VSR	Yes	Mech Only	8520-1490B
Yes	Relay	Yes	Mech Only	8520-1590B

- Mechanical Only (Mech Only) locations do not have an active remotely controllable relay or an automatic operation relay but instead offer only an "on-device" mechanical disconnect for that specific location

Fig 13 - Dual XD - 86 Series (DTM Connectors) (Matches Legacy Remote Relay Solutions)

Example:
8620-1530B

ALL relay positions capable of configuration as either Voltage Sensitive Relay (VSR) or Simple Remote Battery Disconnect via Dip Switches. Factory Dip Switch Settings are Per Part Number. For all relay positions set as VSRs, both input terminals adjacent to the relay position are used for sensing voltage and making automatic open/close decisions (VSR Mode Only)



Termination Sequence A For Relays

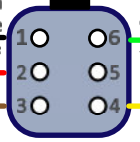
Black - Ground Return, Protect with 7.5-10 A Fuse

Red - Remote On/Off

Brown - Force ON

Green - Force OFF

Yellow -External LED - Line Pulled to Gnd by XD Relay



DTM 06-6S Connector End. Customer Supplies DTM04-6P or Cuts & Uses Individual Wire Terminations

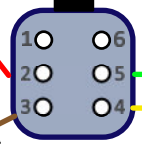
Termination Sequence B For ACRs/VSRs

Red - Force On (+Vdc), Off (Gnd), Auto On/Off (Float)

Brown - Start Isolation #1 (+Vdc)

Green - Start Isolation #2 (+Vdc)

Yellow - External LED / Relay (Ground when Relay Closed)



DTM 06-6S Connector End. Customer Supplies DTM04-6P or Cuts & Uses Individual Wire Terminations

Dual XD Relay Part Numbers and Dip Switch Settings (Fig 13)

Left Relay			Right Relay			
Knob	Setting	Term Seq	Knob	Setting	Term Seq	Bulk PNs
Yes	VSR	B	Yes	VSR	B	8620-1330B
No	VSR	B	No	VSR	B	8620-1440B
Yes	VSR	B	No	Relay	A	8620-1350B
Yes	Relay	A	Yes	VSR	B	8620-1530B
No	VSR	B	Yes	Relay	A	8620-1450B
Yes	Relay	A	No	VSR	B	8620-1540B
Yes	Relay	A	Yes	Relay	A	8620-1550B
No	Relay	A	No	Relay	A	8620-1660B
Yes	VSR	B	Yes	Mech Only	-	8620-1390B
No	VSR	B	No	Mech Only	-	8620-1490B
Yes	Relay	B	Yes	Mech Only	-	8620-1590B

- Mechanical Only (Mech Only) locations do not have an active remotely controllable relay or an automatic operation relay but instead offer only an "on-device" mechanical disconnect for that specific location

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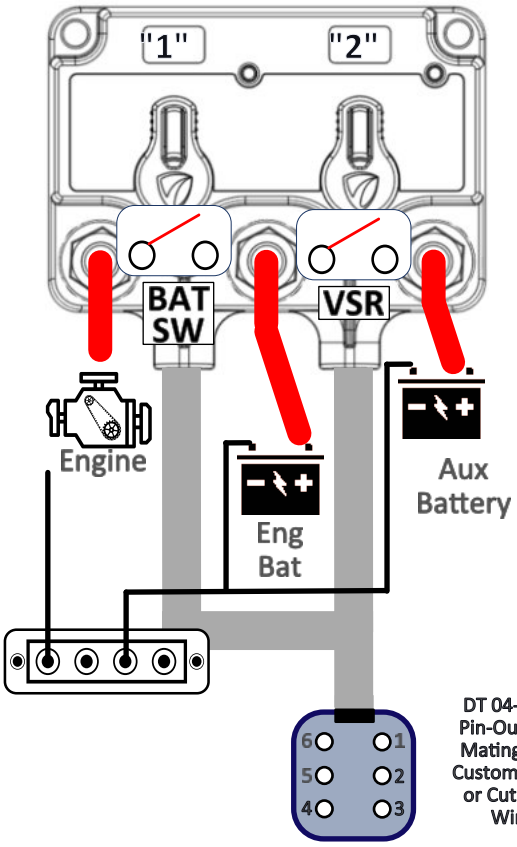
Fig 14 - Dual XD - 86 Series (Mounts Left of Triple)



Depicted with manual override knobs in all locations. Availability of manual override knob for either relay position determined by the part number. See part number guide for further details.

Relay locations set to either VSR or Battery Switch functionality per designations on this diagram. Builders, installers, and end users can change via dip switches on back of device.

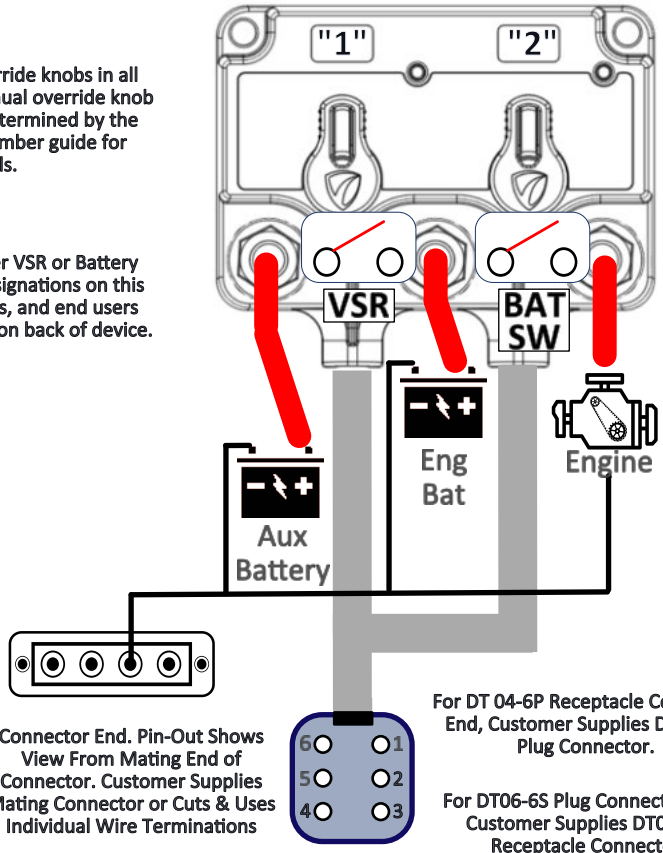
DT 04-6P Connector End. Pin-Out Shows View From Mating End of Connector. Customer Supplies DT06-6S or Cuts & Uses Individual Wire Terminations

6 Pin Connector Functions (Fig 14)	Pin #	Wire Color
Ground (Required), Protect w/ 7.5 - 10.0 A Fuse	1	Black
Relay 1 Rem Ctrl Signal (Optional / Recommended)	2	Red
Relay 1 Rem Indicator (Active Low), (Optional)	3	Yellow
Relay 2 Rem Ctrl Signal (+Vdc/Float/Gnd)	4	Red
Relay 2 Rem Indicator (Optional / Recommended)	5	Yellow
Relay 2 Start Isolation #1 Input (Optional)	6	Brown

Dual XD Part Numbers Dip Switch Settings (Fig 14)

Left Relay		Right Relay		
Knob	Setting	Knob	Setting	Bulk PNs
Yes	Relay	Yes	VSR	8620-6530B
Yes	Relay	No	VSR	8620-6540B
No	Relay	Yes	VSR	8620-6630B
No	Relay	No	VSR	8620-6640B
Yes	Relay	Yes	Relay	8620-6550B

Fig 15 - Dual XD - 86 Series (Mounts Right of Triple)



Connector End. Pin-Out Shows View From Mating End of Connector. Customer Supplies Mating Connector or Cuts & Uses Individual Wire Terminations

For DT 04-6P Receptacle Connector End, Customer Supplies DT06-6S Plug Connector.

For DT06-6S Plug Connector End, Customer Supplies DT04-6P Receptacle Connector

6 Pin Connector Functions (Fig 15)	Pin #	Wire Color
Ground (Required), Protect w/ 7.5 - 10.0 A Fuse	1	Black
Relay 1 Rem Ctrl Signal (Optional / Recommended)	2	Red
Relay 1 Rem Indicator (Active Low), (Optional)	3	Yellow
Relay 2 Rem Ctrl Signal (+Vdc/Float/Gnd)	4	Red
Relay 2 Rem Indicator (Optional / Recommended)	5	Yellow
Relay 1 Start Isolation #1 Input (Optional)	6	Brown

Dual XD Part Numbers Dip Switch Settings (Fig 15)

Left Relay		Right Relay			Housing Connector	
Knob	Setting	Knob	Setting	Bulk PNs	Color	Gender
Yes	VSR	Yes	Relay	8620-6350B	Gray	Receptacle
No	VSR	Yes	Relay	8620-6450B	Gray	Receptacle
Yes	VSR	No	Relay	8620-6360B	Gray	Receptacle
No	VSR	No	Relay	8620-6460B	Gray	Receptacle
Yes	VSR	Yes	Relay	8625-6350B	Black	Plug

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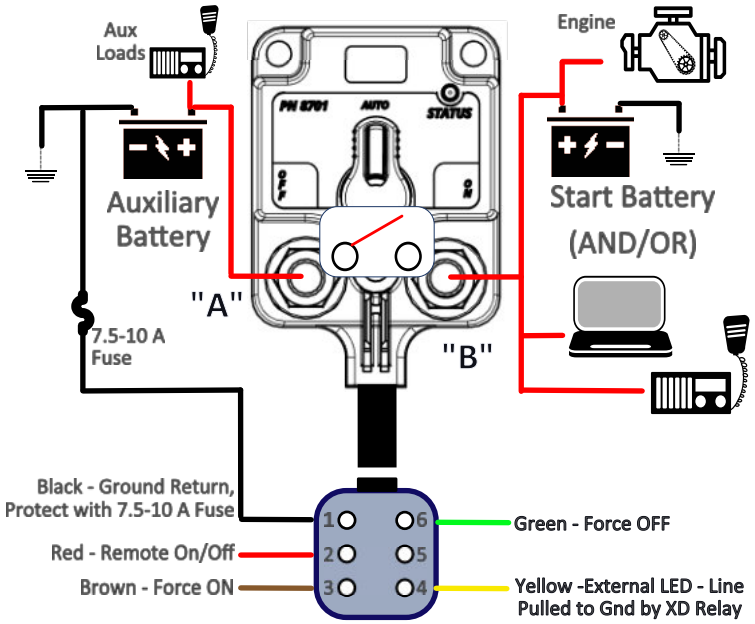
Fig 16 - Single XD - 85/86 Remote Relay/Battery Switch (Connector Matches Legacy Blue Sea Systems Relays)



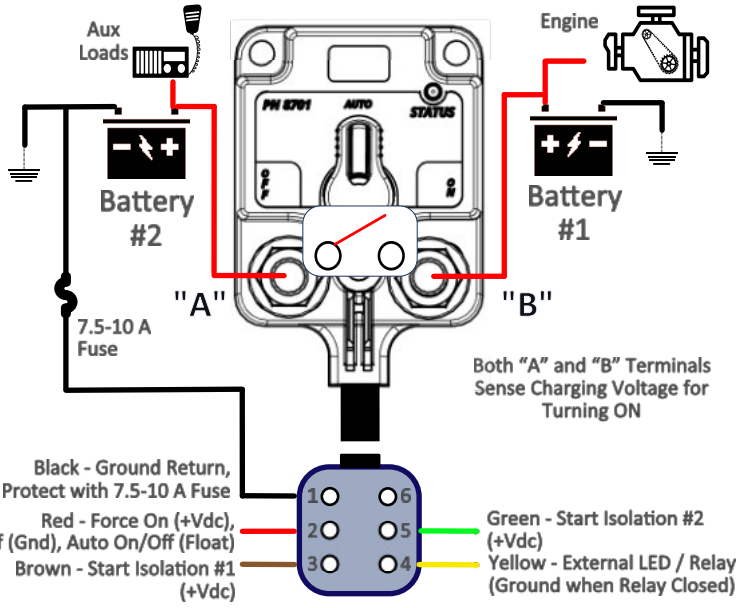
A) 86xx-xxxx Part Numbers Use a DTM 06-6S Connector End. Customer Supplies DTM04-6P or Cuts & Uses Individual Wire Terminations.
B) 85xx-xxxx Part Numbers Provide Flying Wires With Colors Matching the Same Functions Outlined on the Connector End Diagram, But Without the Connector.

6 Pin DTM Connector Functions	Pin #	Wire Color
Ground (Required), Protect w/ 7.5 - 10.0 A Fuse	1	Black
Single Wire Close/Open (See Pg 3, Relay Mode)	2	Red
Relay Close (See Pg 3 it Relay Mode, If Changed to VSR then Start Isolation #1 Function)	3	Brown
Remote Indicator	4	Yellow
Relay Open (See Pg 3 it Relay Mode, If Changed to VSR then Start Isolation #2 Function)	6	Green

Single XD Part Numbers Dip Switch Settings For Above			
Knob	Default Setting	Termination	Bulk PNs
Yes	Relay	Flying Wires	8510-1500B
Yes	Relay	DTM Connector	8610-1500B
No	Relay	Flying Wires	8510-1600B
No	Relay	DTM Connector	8610-1600B
Yes	Mechanical Only	None	8510-1900B

- Mechanical Only (Mech Only) locations do not have an active remotely controllable relay or an automatic operation relay but instead offer only an "on-device" mechanical disconnect for that specific location. No control wire terminations are present

Fig 17 - Single XD - 85/86 Voltage Sensitive Relay (VSR/ ACR) (Connector Matches Legacy Blue Sea System ACRs)



A) 86xx-xxxx Part Numbers Use a DTM 06-6S Connector End. Customer Supplies DTM04-6P or Cuts & Uses Individual Wire Terminations.
B) 85xx-xxxx Part Numbers Provide Flying Wires With Colors Matching the Same Functions Outlined on the Connector End Diagram, But Without the Connector.

6 Pin DTM Connector Functions	Pin #	Wire Color
Ground (Required), Protect w/ 7.5 - 10.0 A Fuse	1	Black
VSR ON/Auto/Off (If Changed to Relay Mode then Single Wire Close/Open (See Pg 3)	2	Red
Start Isolation #1 Function (If Changed to Relay then Relay Close (See Pg 3)	3	Brown
Remote Indicator	4	Yellow
Start Isolation #2 Function (If Changed to Relay then Relay Open (See Pg 3)	5	Green

Single XD Part Numbers Dip Switch Settings For Above			
Knob	Default Setting	Termination	Bulk PNs
Yes	VSR	Flying Wires	8510-1300B
Yes	VSR	DTM Connector	8610-1300B
No	VSR	Flying Wires	8510-1400B
No	VSR	DTM Connector	8610-1400B

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