

ML Series AUTOMATIC CHARGING RELAYS

500 Amp magnetic latching (bi-stable) relay automatically combines batteries during charging and isolates batteries when discharging and when starting engine

- Start Isolation (SI) can be configured for temporary isolation of House loads from Engine circuit during engine cranking to protect sensitive electronics
- Engine Isolation (EI) can be configured for isolation of two engines while both are running to protect engine electronics and maximize alternator output
- Manual override knob provides an added level of safety allowing control with or without power and offering LOCKED OFF capability for servicing
- · Senses charging on two battery banks
- LED output to remotely indicate switch state requires optional LED or Remote Control Contura Switch with integrated LED (included in retail package)
- Tin-plated copper studs for maximum conductivity and corrosion resistance
- One-piece stainless flange nuts ensure safe and secure connections
- · Label recesses for circuit identification



2146 Remote Control Contura Switch Action: ON-OFF-ON Included in retail package





Deutsch DTM Cable End provided on bulk units. Other connector plugs are available for high volume OEM applications

Wire Color	Circuit Function	
Red	Remote	
Black	Ground	
Yellow	LED Output	
Brown	SI/EI #1	
Green	SI/EI #2	
Orange	SI/EI #3	

Related Products







Battery Management MRBF® Terminal Panels Fuse Blocks



Paralleling Link Bus



160

Paralleling Link Bus

For paralleling ML-Remote Battery Switches and Automatic Charging Relays

- · Tin-plated copper for maximum conductivity and corrosion resistance
- · Sold individually

ML Series AUTOMATIC CHARGING RELAYS

Specifications		7620, 7622	7621, 7623	
Live Current Switching		10,000 Cycles	10,000 Cycles	
Combine	(30 sec.)	13.5V DC	27.0V DC	
	(2 min.)	13.0V DC	26.0V DC	
Open	(10 sec.)	12.35V DC	24.7V DC	
	(30 sec.)	12.75V DC	25.5V DC	
Over Voltage Lockout		16.2V DC	32.4V DC	
Under Voltage Lockout		9.6V DC	19.2V DC	
Under Voltage Recovery		10.0V DC	20.0V DC	

PN	Cable End	Packaged	
7620	Stripped Wire	Retail	
7620100B	Deutsch DTM	Bulk	
7622	Stripped Wire	Retail	
7622100B	Deutsch DTM	Bulk	
7621	Stripped Wire	Retail	
7621100B	Deutsch DTM	Bulk	
7623	Stripped Wire	Retail	
7623100B	Deutsch DTM	Bulk	
9160	Paralleling Link Bus	Retail	

Regulatory

 $\textbf{C}\, \textbf{E}$ marked, Meets ISO 8846 and SAE J1171 external ignition protection requirements

IP66-protected against powerful water jets (see inside back cover)

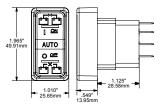
Remote Control Contura Switch (PN 2146) **Specifications**

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Amperage Operating Currer	nt (LED) 18mA
Temperature Range	-40°C to 85°C
Pole/Throw	SPDT
Lighting	LED rated 100,000 hours half-life
Seals	Internal and external gasket panel seal
Mounting Hole	1.45" x 0.83"
	(36.83 mm x 21.08 mm)

Regulatory

Meets UL 1500 and ISO 8846 external ignition protection requirements IP67-protected against immersion up to 1 meter for 30 minutes





Selection Chart

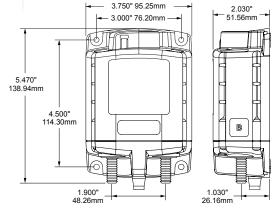
Choose the right Automatic Charge Relay for your application





	75	125	75	175	
PN	7620*	7622*	7621*	7623*	
Manual Control	-	Yes	-	Yes	
Nominal Voltage	12V DC	12V DC	24V DC	24V DC	
Cranking Rating (10 sec.)	2,500A DC				
Cranking Rating (1 min.)	1,100A DC				
Intermittent Rating (5 min.)	700A DC				
Continuous Rating	500A DC				
Amperage Operating Current - continuous @ 25°C nominal VDC	< 13mA				
Amperage Operating Current - when changing state	< 7.0A DC		< 4.0A DC		
Switching Cycles	100,000				
Coil Function	Magnetic Latching, Auto-Releasing				
Control Switch Included	2146 SPDT ON-OFF-ON				
Control Circuit Connection	Tinned Wire				
Mounting	#10 or M5				
Terminal Stud Size	3/8"-16 (M10)				
Terminal Stud Length	7/8" (22 mm)				
Maximum Terminal Stud Torque	140 in-lb (15.8 Nm)				
Cable Size to Meet Ratings	4/0 AWG (120 mm²) x 2				
Terminal Ring Diameter Clearance	1.12" (28.4 mm)				

^{*} Bulk units available that incorporate Deutsch DTM Connectors. Other connector plugs are available for high volume OEM applications.





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Specifications subject to change. See bluesea.com for current information. 6838 Rev.006