ML-Series
Automatic Charging Relay

500A magnetic latching relay automatically combines batteries during charging and isolates batteries when discharging and when starting engine.

- Magnetic Latching (ML) relay draws very low current in the ON or OFF state
- 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)
- 3/8"-16 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

CE **IGNITION PROTECTED**



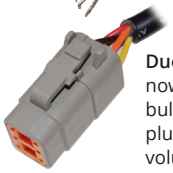
7622



7620



Remote Control Contura Switch
Included in retail package



Duetch DTM Cable End
now offered for both retail and bulk units. Other connector plugs are available for high volume OEM applications.



9160
Paralleling Link Bus
For paralleling ML-Remote Battery Switches and Automatic Charging Relays
- Tin-plated Copper for maximum conductivity and corrosion resistance
- Sold individually

Related Products


ML-Series Remote Battery Switches


Battery Management Panels


Paralleling Link Bus


Stud Mount Insulators


MRBF® Terminal Fuse Blocks

Specs

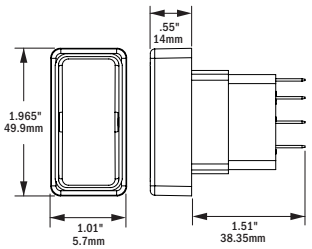
Part #	Coil Volts	Cable End	Manual Control
7620	12V DC	Stripped Wire	No
7620100	12V DC	Deutsch DTM	No
7622	12V DC	Stripped Wire	Yes
7622100	12V DC	Deutsch DTM	Yes
7621	24V DC	Stripped Wire	No
7621100	24V DC	Deutsch DTM	No
7623	24V DC	Stripped Wire	Yes
7623100	24V DC	Deutsch DTM	Yes
9160	Paralleling link bus		

Wire Size and Current Ratings

Wire Size	Cranking 30 sec.	Intermittent 5 min.	Continuous (UL 1107)
2/0 AWG (70 mm²)	1,000A	400A	225A
4/0 AWG (120 mm²)	1,100A	400A	300A
2× 4/0 AWG (2x 120 mm²)	1,450A	700A	500A

Remote Control Contura Switch (2146)

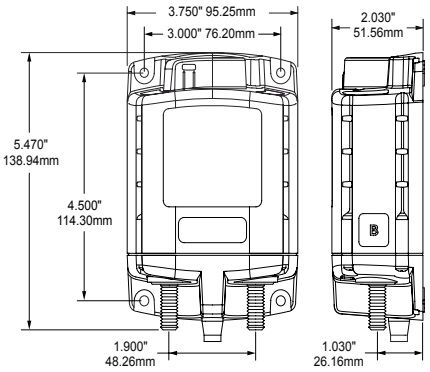
Amperage Max. Operating	20A @ 12V DC, 15A @ 24V DC
Amperage Operating Current	18mA
Temperature Range	-40°C (-40°F) to 85°C (185°F)
Pole/Throw	SPDT
Lighting	LED rated 100,000 hours half-life
Seals	Internal and external gasket panel seal
Mounting Hole	1.45" x 0.83" (36.83 mm x 21.08 mm)
Regulatory	Meets UL 1500 and ISO 8846 external ignition protection requirements, Switch front is IP67 when mounted with gasket in place – protected against immersion up to 1 meter for 30 minutes



Selection Chart



Part #	7620 7620100	7622 7622100	7621 7621100	7623 7623100
Manual Control	--	Yes	--	Yes
Nominal Voltage	12V DC		24V DC	
Cranking Rating (30 sec.)	1,450A 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 Bi-Stable			
Remote Control Switch Included	2146 SPDT ON-OFF-ON			
Control Circuit Connection	Tinned Wire or Deutsch Connector			
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) × 2			
Terminal Ring Diameter Clearance	1.12" (28.4 mm)			
Weight	2.04lb (0.93 kg)			
Regulatory	CE marked, Meets ISO 8846 and SAE J1171 external ignition protection requirements IP66 - protected against powerful water jets			



Specifications subject to change. See bluesea.com for current information.

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