

Master Vehicle Light Switch (MVLS)

Features and Benefits

- Solid State
- Multi-Function
- Back-mounted switch assembly
- Aluminum with elastomeric keyboard
- Solid state switching and firmware for safety
- Logic stored in non-volatile memory
- Backlit keypad when master power is supplied
- Switch maintains memory of present lighting mode when experiencing momentary power interruptions
- Switch is self-protected against reverse polarity, currents over 20 Amps and voltage greater than 30V

Designed for Harsh Environments

Esterline Interface Technologies originally designed the MVLS for the US Military to replace the original 1950s era mechanical lever switch. Our design eliminated the need for two-handed operation and improved reliability in a streamlined package. The MVLS is used in "truck like" vehicles such as tractors, forklifts, medium vehicles, heavy vehicles, wreckers, and dump trucks for both combat and non-combat operation.



Designed for operation in the harshest environments, the MVLS controls vehicle head lamps, stop lamps, panel lamps, driving lamp, clearance lamp, marker lamp, turn indicator lamps, tail lamps, parking lamps, and battery lamp. The MVLS has three levels of backlighting capability: bright, dim or off.

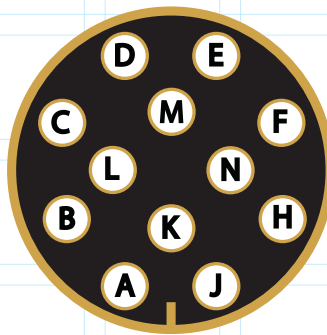
MVLS is equipped with control circuits to prevent accidental energizing of lighting circuits in a blackout condition.

SPECIFICATIONS

ELECTRICAL		G1	G3
Current		20 Amps	20 Amps
Voltage		9-33 Volts	9-33 Volts
Internal Architecture			Resettable fuse, Fail-safe fusing, Event monitoring
MECHANICAL			
Operating force		3.5 ± 0.5 pounds	
Switch life (mechanical and electrical)		1 million keystrokes	
Attachment hole pattern		2.156" (w) x 3.219" (h)	
Thread pattern		#10-32	
ENVIRONMENTAL			
Operating temperature		-50°F to +150°F	
Storage temperature		-65°F to +165°F	
Shock		MIL-STD-202G, method 213, condition G at 100G	
Vibration - random		MIL-STD-810F, section 514.5, figure 514.5 C-3	
Vibration - sinusoidal		MIL-STD-202G, method 204, condition A	
Corrosion		Salt fog MIL-STD-202G, method 101D: 240 hours	
Water resistance		6 Psig no leakage	
ELECTROMAGNETIC COMPATIBILITY		G1	G3
MIL-STD-461		CE102, CS101, CS114, CS115, CS116, RE102, RS103	
MIL-STD-1275		Power supply: Surges and Spikes	
SAE J1113-11		Power supply: Surges and Spikes	
SAE J1113-12		Power supply: Surges and Spikes	
SAE J1113-14		ESD	
SAE J1455		Power supply: Surges and Spikes	
VARIOUS			
Dimensions		2.69"(w) x 3.75"(h) x 3.25"(d)	
Weight		2 pounds	
Grounding cable length (optional)		72 inches	
Mating connector (male)		MIL-DLT-5015, shell size 28, contact arrangement 28-51	
Warranty		One year limited warranty	
PART NUMBERS		G1	G3
Esterline		9375-00117	9375-00311
Defense Logistics Agency NSN		5930-01-491-9893	6220-01-586-5430
US Army Tank and Automotive Command		12484558	12484558

Pin Connects to

- A STOP lamp switch
- B PANEL lamps
- C SERVICE stop lamp
- D BLACKOUT driving lamp
- E BLACKOUT clearance lamp
BLACKOUT marker lamp
BLACKOUT turn indicator lamp
BLACKOUT tail lamp



Pin Connects to

- F BATTERY
- H SERVICE tail lamp
SERVICE clearance lamp
- J SERVICE turn indicator L & R
- K STOP lamp switch (rear side)
- L PARKING lamp
- M SERVICE head lamp
- N BLACKOUT stop lamp



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