

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.

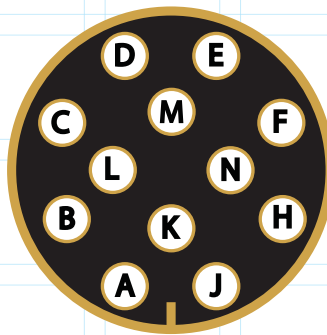
MVLS is equipped with control circuits to prevent accidental energizing of lighting circuits in a blackout condition.

SPECIFICATIONS

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