

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 the Military

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



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

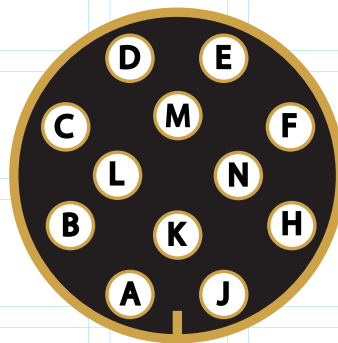
It is equipped with control circuits to prevent accidental energizing of any lighting circuits when in a blackout condition.

SPECIFICATIONS

MECHANICAL		
Operating force	3.5 + 0.5 pounds	
Switch Life (mechanical and electrical)	1 million keystrokes	
ELECTRICAL		
	G1	G3
Current	20 Amps	20 Amps
Voltage	9-33 Volts	9-33 Volts
Internal Architecture	Resettable fuse, Fail-safe fusing, Event monitoring	
ENVIRONMENTAL		
Operating Temperature	-50°C to +150°C	
Storage Temperature	-65°C to +165°C	
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	Supply, Surges and Spikes	
SAE 1113-11	Supply, Surges and Spikes	
SAE 1113-12	Supply, Surges and Spikes	
SAE 1113-14	ESD	
SAE 1455	Supply, Surges	
VARIOUS		
Dimensions	2.69"(w) x 3.75"(h) x 3.25"(d)	
Weight	2 pounds	
Grounding cable length	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	
US Army Tank and Automotive Command	1248558	1248558

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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