

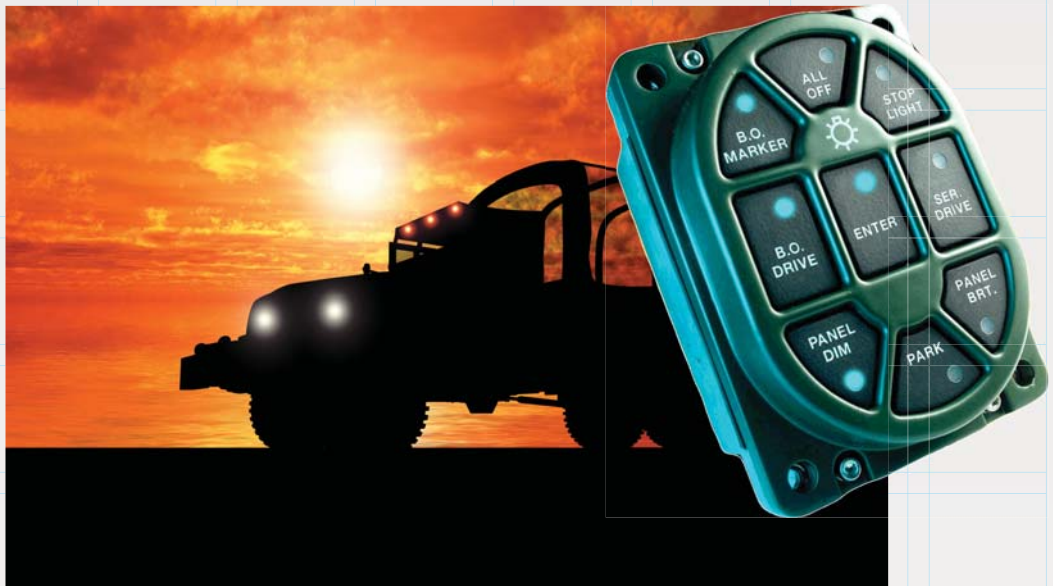
Master Vehicle Light Switch (MVLS)

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.

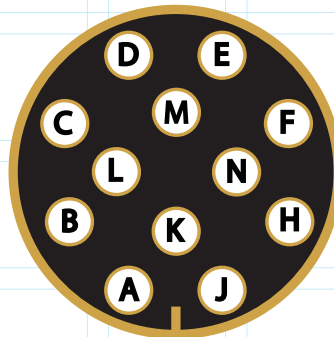
MVLS is equipped with control circuits to prevent accidental energizing of lighting circuits in a blackout condition.

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



Americas

Headquarters
600 W. Wilbur Avenue
Coeur d'Alene, ID 83815
208-765-8000

530 N. Franklin Street
Frankenmuth, MI 48734
989-652-2656

Europe

Hofer Straße 5
D-86720 Nördlingen, Germany
+49 (0) 9081-800-1

Asia

Caoheijing High Tech Park
6th Floor, Block 87
No. 1199 Quin Zhou Bei Road
Shanghai, China