

Advanced Input Systems™

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



Advanced Input Systems 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 headlamps, 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.

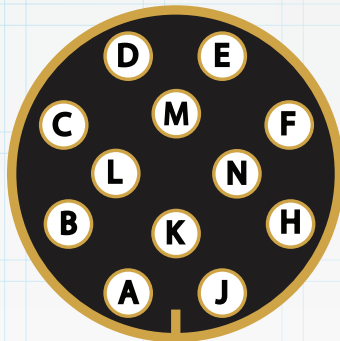
It is equipped with control circuits to prevent accidental energizing of any lighting circuits when in a blackout condition.



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° to 150° F
Storage temperature			-65° to 165° F
Shock			MIL-STD-202G, method 213, condition G at 100G
Vibration - Random			MIL-STD-810F, section 514.5, Fig 514.5C-3
Vibration - Sinusoidal			MIL-STD-202G, method 204, condition A
Corrosion			Salt fog MIL-STD-202G, method 101D: 240 hours
Water resistance			6Psig 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			Coupled transient spikes
SAE 1113-13			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-DTL-5015, shell size 28, contact arrangement 28-51
Warranty			1 year
PART NUMBERS		G1	G3
Esterline Advanced Input Systems		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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