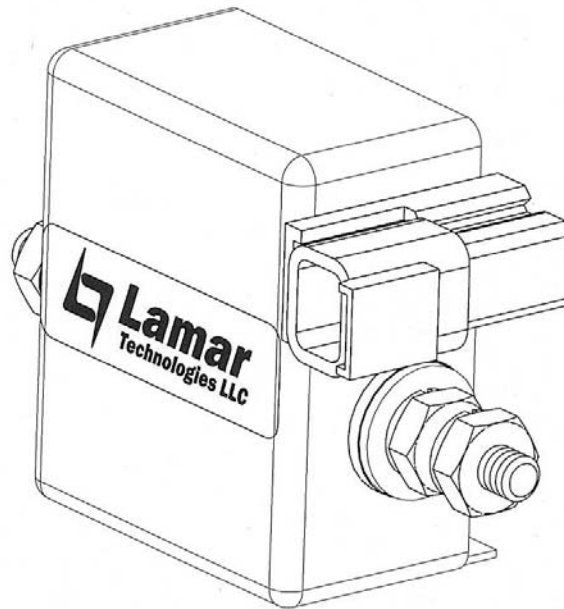


OUTLINE & SPECIFICATIONS

UNI-DIRECTIONAL  
SS1-NEG-EXP, SS1-POS-EXP



Patent pending

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DATE WRITTEN	ORIGINAL AUTHOR	LASTEST REVISION DATE	SHEET NO.	NO. OF SHEETS	WRITTEN BY:
03-23-07	M. Delaney	10/21/09	1	7	M. Delaney
					APPROVED BY:
					J. DUCKWORTH
LATEST CHANGE	LATEST CHANGE <b>C</b>				CAGE CODE
LAMAR TECHNOLOGIES, LLC 14900 40 <sup>th</sup> Ave N.E., Marysville, WA 98271 F.A.A. Repair Station: L1RR089Y ξ F.A.A.-P.M.A.: PQ2242NM					<b>3RCD2</b>

## REVISION HISTORY

REV	DESCRIPTION	RELEASE DATE	APPROVAL
A	Initial release	8/21/08	
B	Clarified terms and notes	03/05/09	J. DUCKWORTH
C	See ECN 693, revised to show changes to lower assemblies. Included in the changes is a new board assembly configuration for the SS1-POS and both of the units will now be potted.	10/23/09	J. DUCKWORTH

# SS1-NEG-EXP

## 1.0 DESCRIPTION

The SuperSwitch is a light weight solid state replacement for the mechanical type contactor.

## 2.0 INPUT SPECIFICATIONS

Input Control Current Voltage: 7V – 32V

## 3.0 OUTPUT SPECIFICATIONS

Operating DC Voltage Range: 7V-32V

Maximum continuous current: 80A (section 5.0)

Maximum Surge Current (IDM) < 0.1mS: 1200A

Maximum On-State Resistance: 2.4mΩ

## 4.0 GENERAL SPECIFICATIONS

Operating Temperature: -40°C to 120°C

Storage Temperature: -55°C to 150°C

### Mechanical Specifications

Mating Connector: Connector Lamar P/N: X52-0081 (Deutsch DTM06-2S)  
Contact Lamar P/N: X51-0035 (Deutsch 0462-201-20141)  
Lock Lamar P/N: X52-0081-1 (Deutsch WM-2P)

Weight: .4lbs

# SS1-POS-EXP

## 1.0 DESCRIPTION

The SuperSwitch is a light weight solid state replacement for the mechanical type contactor.

## 2.0 INPUT SPECIFICATIONS

Input Control Current Voltage: 7 – 32V

## 3.0 OUTPUT SPECIFICATIONS

Operating DC Voltage Range: 7V - 32V

Maximum continuous current: 80A (see section 5.0)

Maximum Surge Current (IDM) < 0.1mS: 1200A

Maximum On-State Resistance: 2.4mΩ

## 4.0 GENERAL SPECIFICATIONS

Operating Temperature: -40°C to 120°C

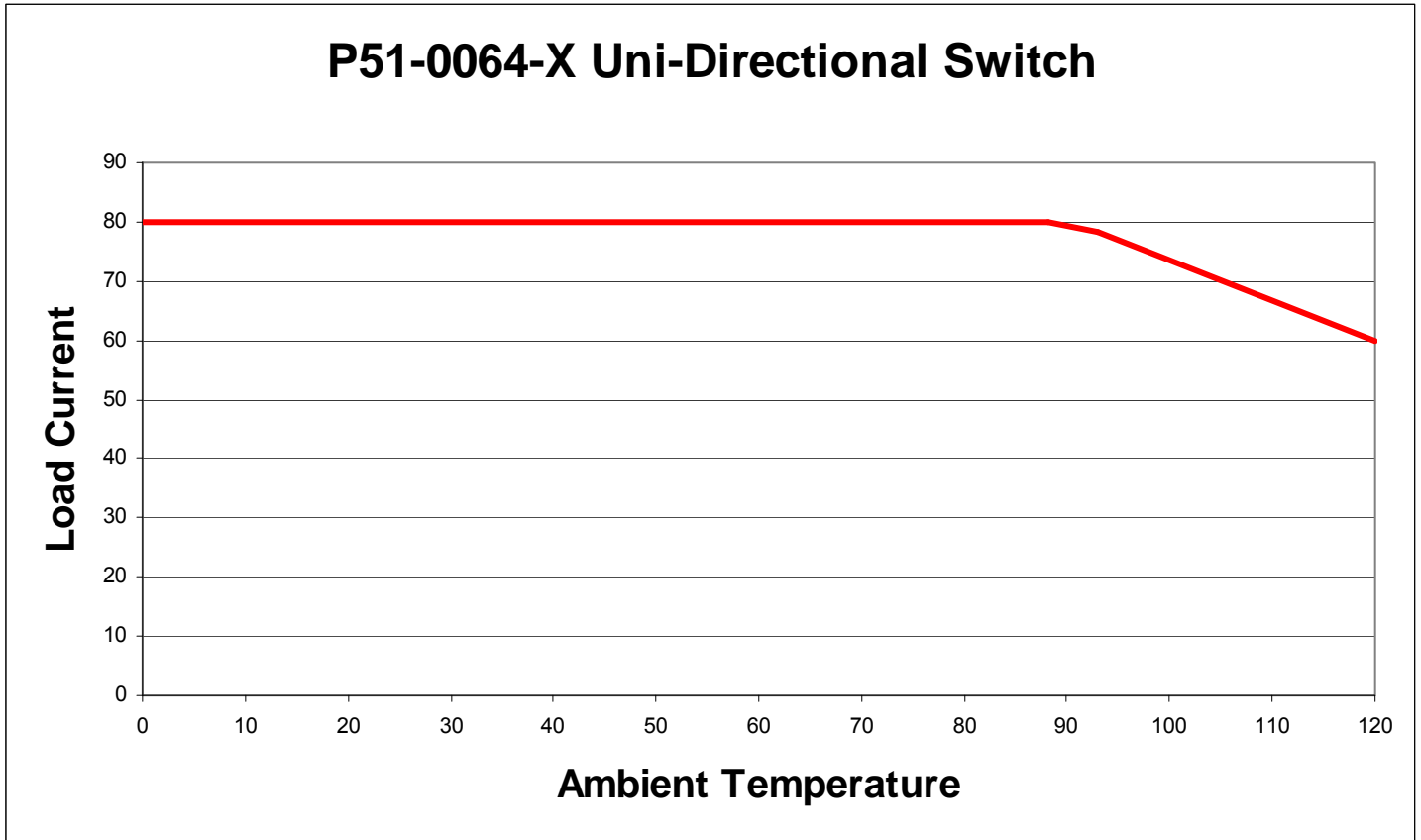
Storage Temperature: -55°C to 150°C

### Mechanical Specifications

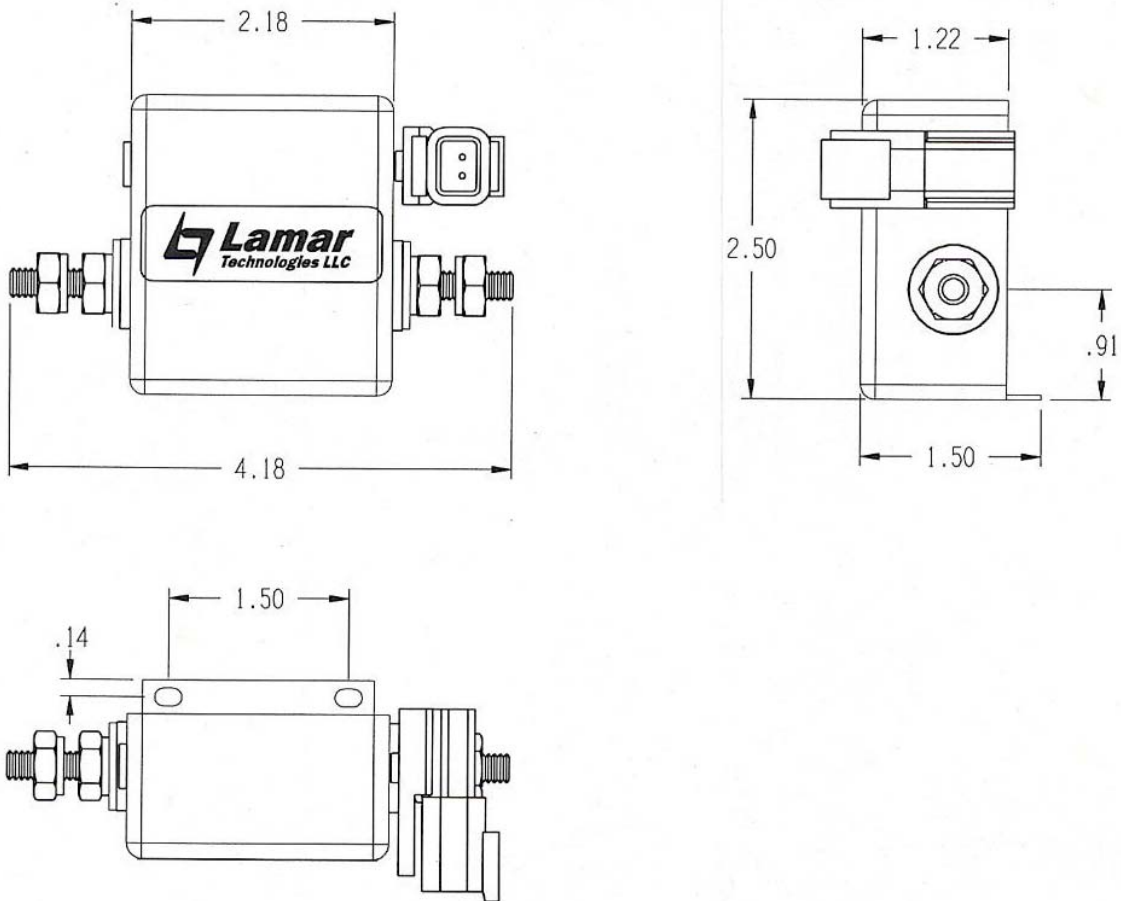
Mating Connector: Connector Lamar P/N: X52-0080 (Deutsch DTM02-2P)  
Contact Lamar P/N: X51-0041 (Deutsch 0460-202-20141)  
Lock Lamar P/N: X52-0080-1 (Deutsch WM-2P)

Weight: .4lbs

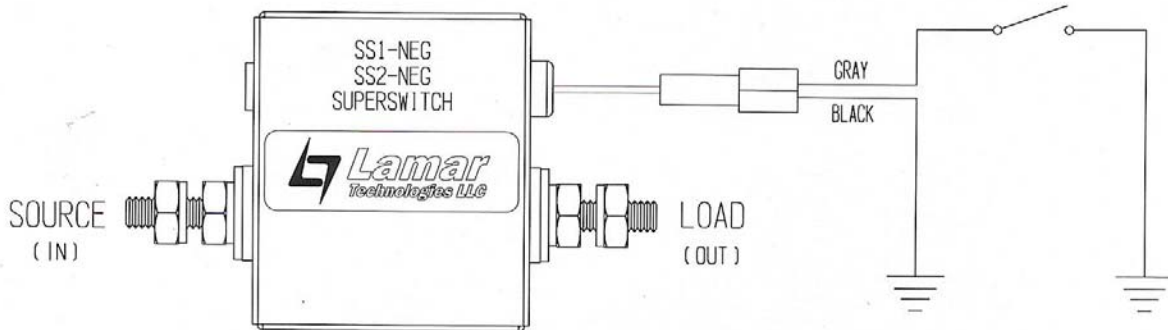
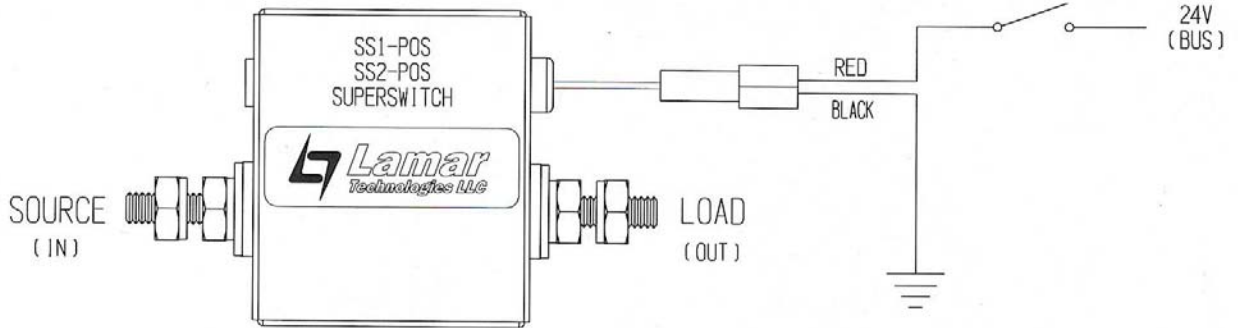
5.0 Safe Operating Area



**6.0 PRODUCT OUTLINES**  
Dimensional drawings of product



**FIGURE 1**  
DIMENSIONS FOR REFERENCE ONLY



**FIGURE 2**  
Typical Connection