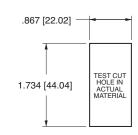
N-Series Rocker Switches



The N-Series Addressable Switch offers the look and feel of a traditional Electro-mechanical control coupled with a built in PCB to provide customers with a flexible, cost effective alternative to a CAN/LIN based switch. The N Series produces up to 144 individual switch IDs by using a resistive ladder circuit. Different switch IDs are achieved by changing the resistor values tied to individual loads. The individual loads can then be assigned to the specific functions that the switch is controlling. Each switch is connected to an ECU and the application software is written to recognize the switch IDs to determine which load is being controlled as well as the selected actuator position. The end result means that wiring harnesses are simplified and specific loads can now be controlled from any location within a vehicle cab. Switch locations can now be rearranged without the need for a costly and time consuming harness redesign, giving designers the ultimate in design flexibility. The N-Series is available in lighted or non-lighted versions, with numerous choices of actuators, colors, lighting circuits, and legend imprints.

| Electrical | | Environmental | |
|------------|--|-----------------------|---|
| - | 1250 Volts RMS between pole to pole 3750 Volts RMS between live parts and accessible surfaces 50 Megaohms 20 milliseconds max. gold plated | Operating Temperature | IP67 for above the panel compo- nents of the actual switch, represent- ing an index of protection as applied to electrical equipment in accor- dance with IEC 529, BS 5490, DIN 400 50 & NFC 20 010. -40°C to +85°C Per SAE J1399 "electronic Tachometer Specification" for Class II truck and bus applications. Test Criteria: No change in resistance and no evidence of physical dam- |
| | | Salt Spray | age. Exposure to 95% water, 5% NCI fog solution at 95 degrees F according |
| Endurance | 250,000 cycles minimum | | to ASTM B 117-90 "Standard Test Method of Salt Spray (fog) Testing". Test Criteria: No visual evidence of |

| Lighted | Incandescent - rated 10,000 hours LED - rated 100,000 hours 1/2 life (LED is internally ballasted for voltages to 24VDC) |
|---------------------|---|
| Seals | Rocker, base & bracket are sealed. |
| Base | Nylon 66 GF rated to 85°C with a |
| | flammability rating of 94V0. |
| Rocker and Paddle | Nylon 66 Reinforced, rated to 105°C |
| Laser Etched Rocker | Polycarbonate rated at 100°C. |
| Lens | Polycarbonate rated at 100°C. |
| | Front snap-in. |
| Connector | Nylon 66 rated at 85°C. Polarized. |
| Bracket | Nylon Zytel |



age.

tion.

Humidity

MOUNTING HOLE **Panel Thickness Range** Acceptable Panel Thickness .030 to .156 (.76mm to 3.96mm) Recommended: .030, .062, .093, .125 and .156

corrosion or external physical dam-

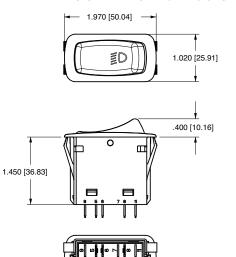
Samples were exposed to selected temperature profile, while maintaining 90% +- 5% relative humidity for 30 cycles. Test Criteria: No evidence of external physical deteriora-

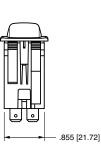
3 positions 13° from center

Dimensional Specifications in. [mm.]:

N-SERIES

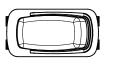
SHOWN WITH LASER ETCHED ACTUATOR

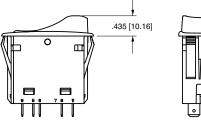


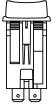


N-SERIES

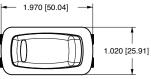
SHOWN WITH ROCKER GUARD

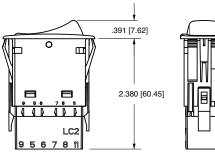






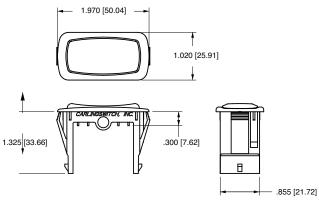
N-SERIES





N-SERIES

LH1 REMOVABLE HOLE PLUG WITH NON-SERRATED WINGS LH2 HOLE PLUG WITH SERRATED WINGS

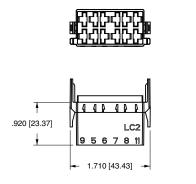


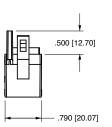
.400 [10.16] C «Њ

N-SERIES

SHOWN WITH LARGE LENS AND PADDLE ACTUATOR

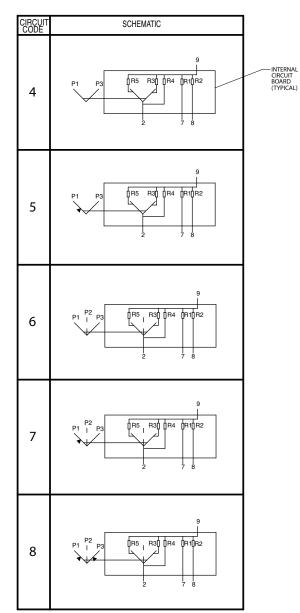




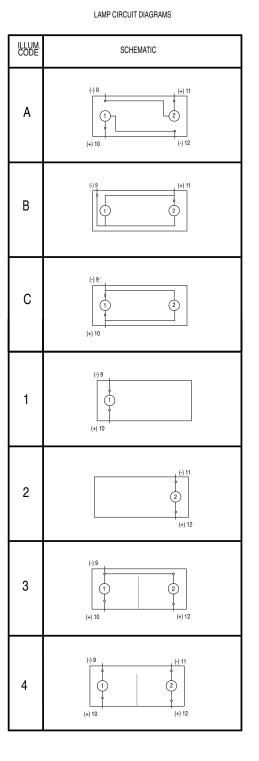


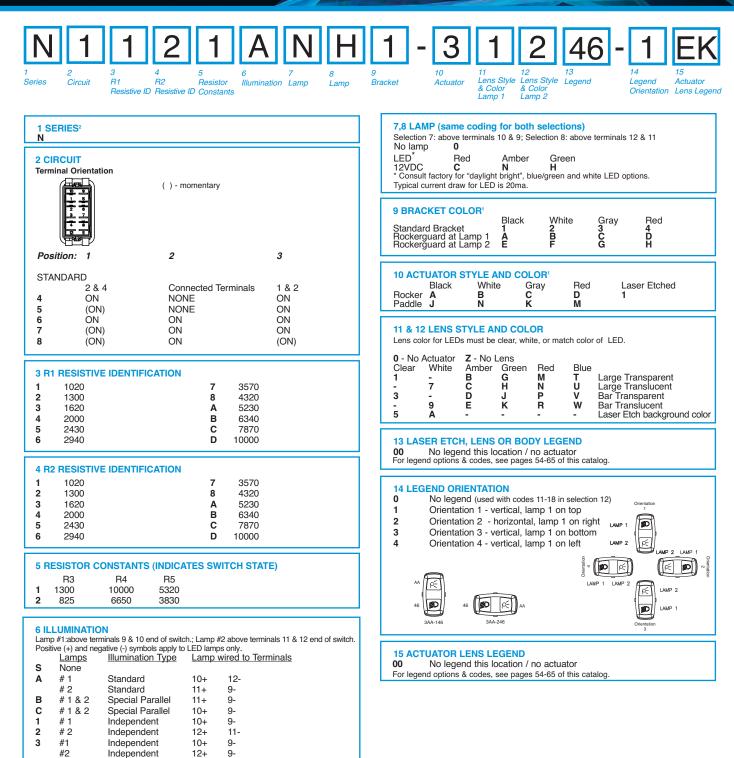
SHOWN WITH BARS LENS AND CONNECTOR





SWITCH CIRCUIT DIAGRAMS





NOTES

#2

#2

4 #1

Custom colors are available. Consult factory.

Independent

Independent

12 +

10+

12+

9-

11-

2 Switch supplied with .187 tab terminals.