

# Lighted Pushbutton Switches

Since 1968, our VIVISUN line of ruggedized, illuminated pushbutton switches and indicators have offered the best-in-class solution for MIL-SPEC and aviation applications worldwide. Our products are engineered with leading edge technology to ensure ease of installation and maintenance-free operation throughout the life of the platform. VIVISUN is preferred around the world for quality, and Applied Avionics customers experience the industry's fastest delivery time and highest commitment to outstanding customer service.

## Switches & Indicators

### Superior LED Performance

VIVISUN combines life of the platform reliability, MIL-SPEC quality and superior performance in sunlight readable lighted pushbutton switches and indicators. Our products are designed for the most demanding applications in avionics, naval shipboard and military ground systems.

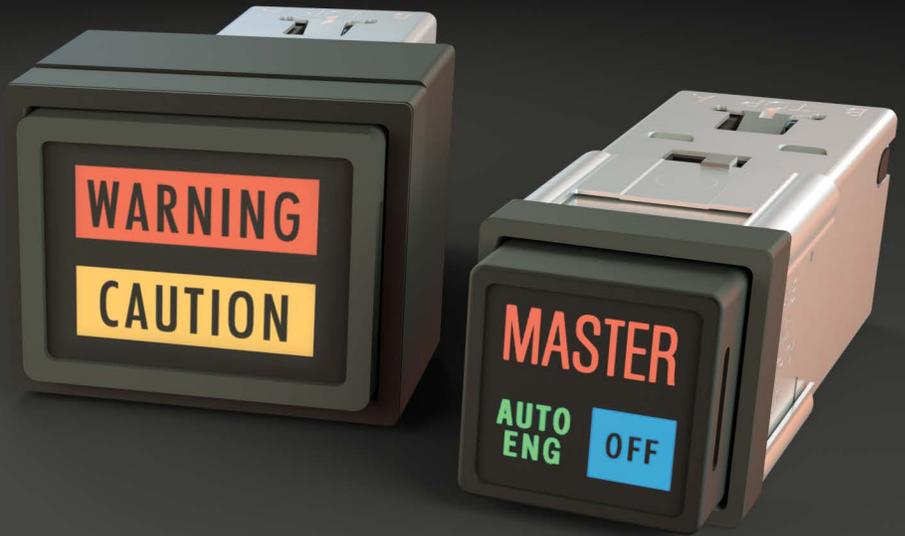
LED lighting and the unique electrical drive and dimming circuit allows the use of VIVISUN products where dimming control for NVIS compliance and low level lighting applications are required. Wide viewing angles and layered fault tolerance deliver unparalleled performance.

LED products are available in a standard 0.75" (19mm) square cap and a 0.94" X 1.18" (23.9mm X 30mm) rectangular cap with additional viewing area for increased legend capacity. Flexibility in voltages, termination, sealing, circuit configurations and cap lighting provides substantial design options. Additionally, the ability to incorporate NEXSYS Component Technology in the indicator or switch body further enhances custom configuration opportunities.

 **DO-160 Witnessed and Conformed**

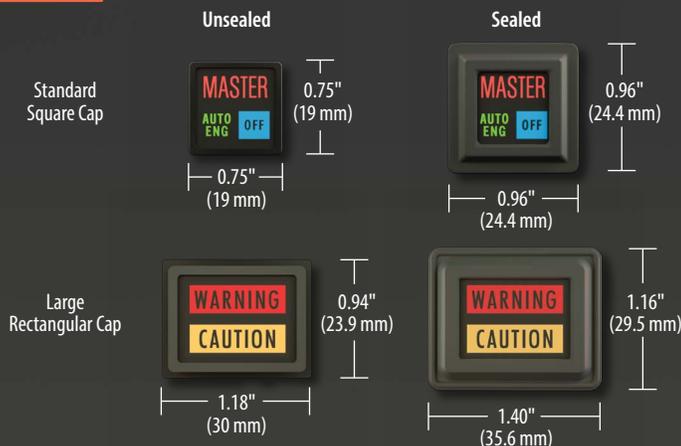
 **MIL-PRF-22885 Qualified**

 **MIL-STD-3009 NVIS Compliant**



-  Captive mounting lugs and reversible mounting sleeve accommodates lighted overlay panel and panel thicknesses from .032" to .187" (0.81mm to 4.74mm).
-  Termination flexibility including the standard keyed solderless connector plug for ease of installation or the reduced size turret for behind the panel depth limitations.
-  Body options include indicators and 1-4 pole switches rated to 7.5 amps. Optional NEXSYS components can also be accommodated internal to the switch body.
-  Caps are fully independent from switch body and can be ordered together or separately. Separable caps also allow for a simple LED upgrade without replacing installed body.
-  Full complement of lighting colors, lighting types, and dimming options available, including 4-way legend splits. Excellent off-angle viewing, sunlight readability and low level uniformity.

### Cap Options



### Body Options



\* Shown with Standard Square cap. All switch bodies are available with Large Rectangular cap option.

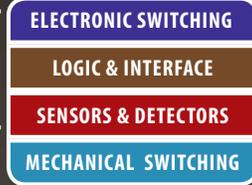
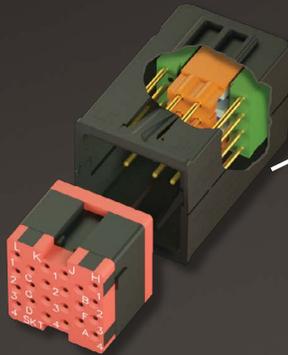
## Avionics Interface Solutions

NEXSYS is the newest brand from Applied Avionics, manufacturers of the industry leading VIVISUN pushbutton switches and indicators. NEXSYS products are focused on providing avionics interface solutions, including the versatile NEXSYS Component Technology and the new ARINC 429 Signal Converter. NEXSYS components can provide robust behind-the panel interface capabilities via a NEXSYS Module or can be incorporated internally into a VIVISUN illuminated switch or indicator body. NEXSYS components provide substantial design customization opportunities and the entire NEXSYS product line has been designed and tested in accordance with DO-160 and equivalent MIL-SPEC standards.

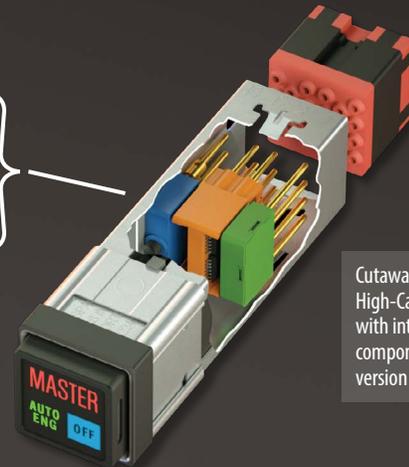
### NEXSYS Component Technology

NEXSYS Component Technology includes over 1,000,000 combinations of mix-and-match integrated electronics such as electronic latching flip flops, edge-detecting pulse timers, ARINC 429 signal converters, Boolean logic array, solid-state relays, electronic rotary components, voltage sensors, diodes and terminal blocks.

The NEXSYS Module offers three mounting options; in-line harness boot, single bracket mount and an M81714/5-5 Type 1 rail mounting system that holds multiple NEXSYS Modules in each rail.



Mix-and-Match  
NEXSYS Component  
Type Options



Cutaway view of a VIVISUN High-Capacity Body with integrated NEXSYS components. A Compact Body version is also available.

### Signal Converters



Our ARINC 429 to Discrete Signal Converter (SR429/1) is a unique interface solution that contains no software, firmware or programmable logic and is tested to DO-160 and equivalent MIL-SPEC standards. For maximum flexibility, the SR429/1 is available as either a factory preset unit or as a universal (user configurable) unit. The SR429/1 is ideally suited to support ADS-B applications and can be used in any application requiring an ARINC 429 to discrete interface.

### Service & Support

At Applied Avionics, customer service begins with a knowledgeable person to answer your call and continues until your order arrives on your dock exactly on schedule. Benefits like automated order confirmations and advance shipping notices make it easy to do business with us. We specialize in quick turnaround situations, and our paperless quotation and ordering process gets your order started quickly and accurately. Unparalleled customer support and demonstrated performance is a promise Applied Avionics delivers on every day.

### Online Part Configuration

Our online Part Configurator allows customers to easily specify all aspects of a new part (including lens cap and NEXSYS components) and generate new part numbers at anytime from anywhere in the world. Registered users can even access a database of their previously configured VIVISUN and NEXSYS parts.

[www.appliedavionics.com/configurator](http://www.appliedavionics.com/configurator)

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