Pushbutton Dimming Control

A single VIVISUN momentary action switch can provide dimming control for up to 50 VIVISUN LED switch annunciators.

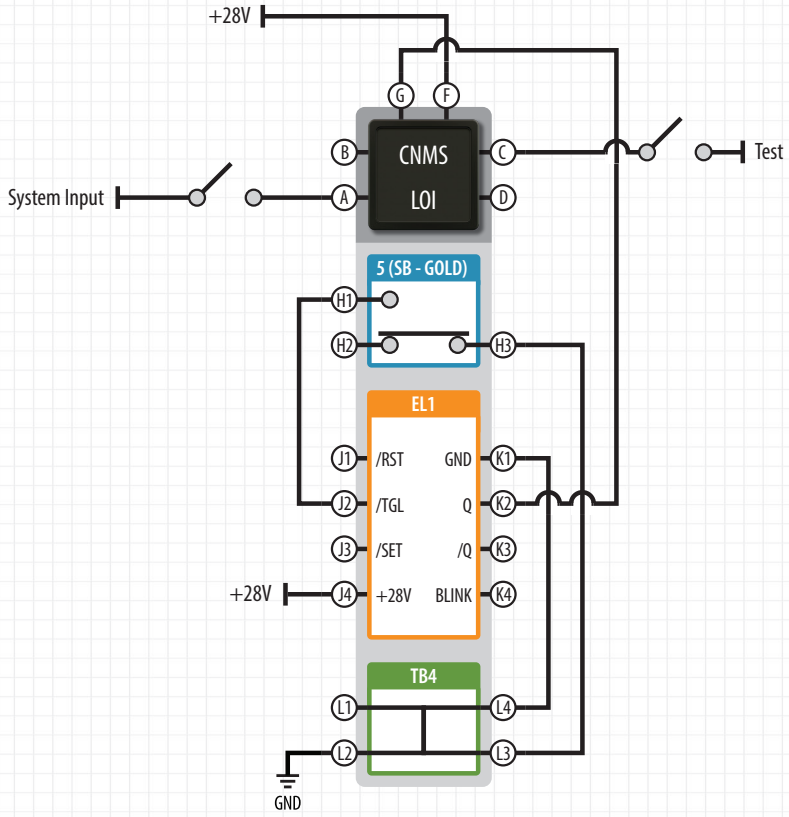
A two-step Discrete Dimming VIVISUN annunciator cap can be combined with a VIVISUN switch body and NEXSYS Component Technology to provide illumination control ranging from sunlight readable brightness down to typical aviation night.

This application circuit includes a VIVISUN High Capacity Body containing a single switch pole and a NEXSYS Electronic Latch (EL1) that acts as a 2-step Discrete Dimming selector. The switch body also contains a (4-Pin) Terminal Block eliminating the need for external splices or junction components.

In the example circuit, the "CNMS, LOI" switch legend powers up in the sunlight readable "Sunlight" level with 28VDC on (Pin-F) and (Pin-G) Open. When the switch is depressed the switch contact (H1) provides ground to the EL1 /TGL input (J2) which activates the EL1 Q output (K2) providing ground to the control (Pin-G) dimming the "CNMS, LOI" legend to the "Aviation Night" (14V- 15 fl) brightness level. At the dim level (Pin-F) is 28VDC and (Pin-G) is ground. When the switch is actuated again the /TGL input causes an opposite state for the Q output (K2) returning the "CNMS, LOI" legend to the "Sunlight" setting.

When the VIVISUN Discrete Dimming option is specified, a dimming control switch must be available to provide the appropriate signal to the control pins. This application provides the dimming control switch and all NEXSYS Component Technology is contained in a single switch body. The NEXSYS EL1 has an output load capacity of 2.0 amps resistive allowing the single switch to control and drive up to 50 illuminated legends. The same circuit can also be used to control a lighting test function by providing ground on (Pin-C) when the VIVISUN external Press-to-Test feature is specified.

To speak with our Technical Support team on how NEXSYS Component Technology can be used to add avionics system capabilities or solve your system integration challenges call us at 1-888-848-4786.



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