



4-Week 389 Switch Accessories

Mounting Hardware

- Universal sleeve: A single-sleeve option accommodating mounting panel thicknesses from 0.032 to 0.432-inch thicknesses. Access to the rear of the mounting panel is required

Electrical Interface Accessories

- M39029 crimp pins: solder-less wire connections that can easily be removed and reinstalled into the connector module
- Connector module: a standard electrical interface that accommodates the M39029 crimp-pin feature

Miscellaneous Accessories

- Spacers: available for insertion between the mounting panel and housing flange to position the cap assembly level with an adjacent light plate
- Flip-guard assembly: available to prevent inadvertent switch actuation
- Connector-module extraction tool: M22885/108T8234



Reliability

The Korry 389 switch has an MTBF of 1.5 million hours, which varies by configuration and application. The 1.5-million-hour MTBF is for a standard full display, assuming a 20-degree Celsius ambient operating temperature and 3,000 flying hours per year. This prediction was performed using 217 Plus from RiAC™ software.

An online form is available to expedite product requests at <https://shop.korry.com/>.



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Illuminating. Always.



4-Week 389 Switch

Korry 389 LED illuminated 5/8-inch switch with expedited delivery

Korry has engineered its 389 LED switch for human machine interface (HMI) applications where superior lighting performance, product reliability, and system versatility are required. Korry 389 switches serve on most commercial and military platforms.

Our Quick Switch program offers the most frequently ordered switch configurations with lead times of four weeks or less. The following pages offer an overview of available configurations.

Where shorter lead times are required, our 3-Day 389 Quick Switch is also available.

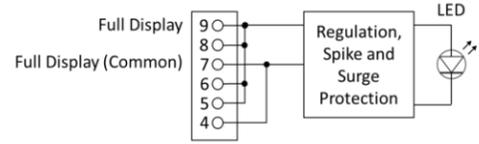
Our simple-to-procure, high-performance switches are offered in hundreds of combinations at the most competitive price and lead time.

Finally, when you order a Korry Quick Switch, you get the Korry reputation: The peace of mind of working with a reliable leader of aerospace switch products.

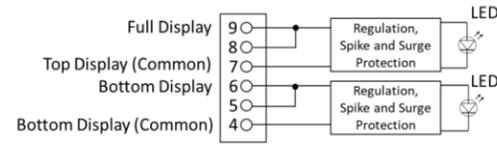
4-Week 389 Switch Lamp Circuit Diagrams

Shown are examples of standard circuits. Other options are available upon request. Terminal designations for reference only.

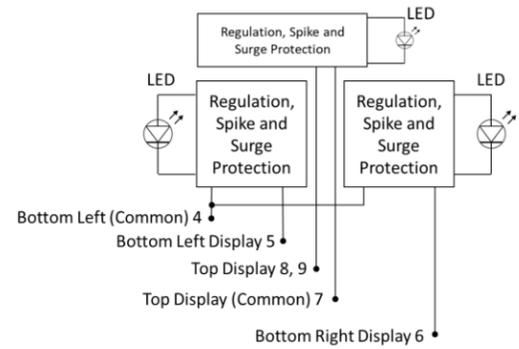
6-Pin Lamp Circuit – accepts M39029/57-354 crimp pins, accepts AWG 22, 24 and 26 (Bipolar Design)



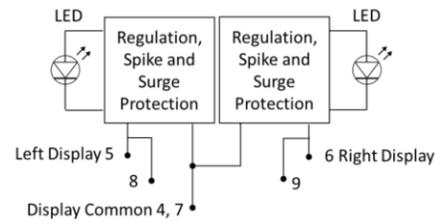
FULL DISPLAY



HORIZONTAL SPLIT DISPLAY – SPLIT COMMON

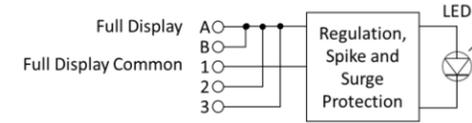


3-WAY BOTTOM SPLIT DISPLAY – SPLIT COMMON

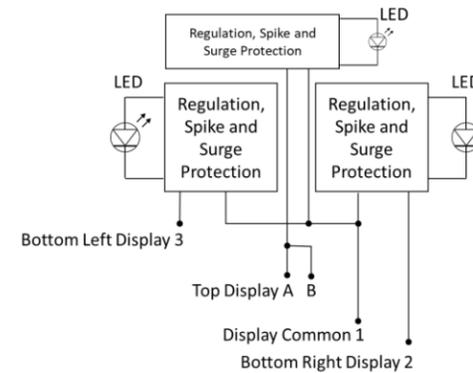


VERTICAL SPLIT DISPLAY – SINGLE COMMON

5-Pin Lamp Circuit – accepts M39029/22 crimp pins, accepts AWG 20,22 and 24 (Bipolar Design, Single Common)

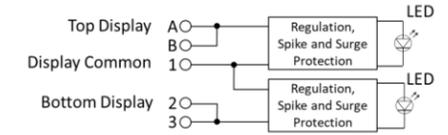


FULL DISPLAY

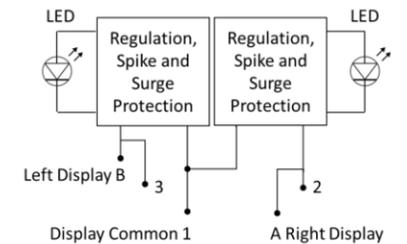


3-WAY BOTTOM SPLIT DISPLAY

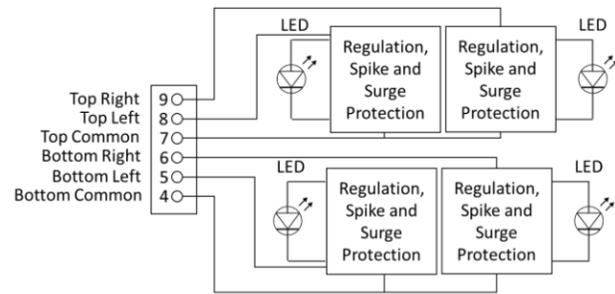
Represents an LED array



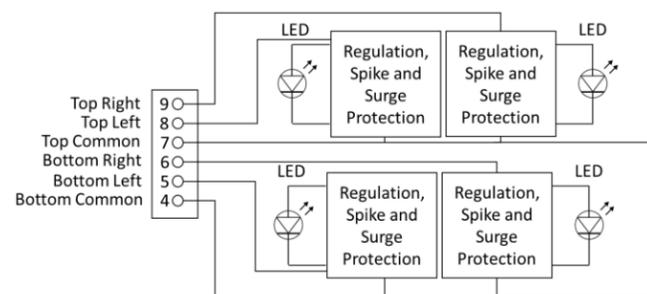
HORIZONTAL SPLIT DISPLAY



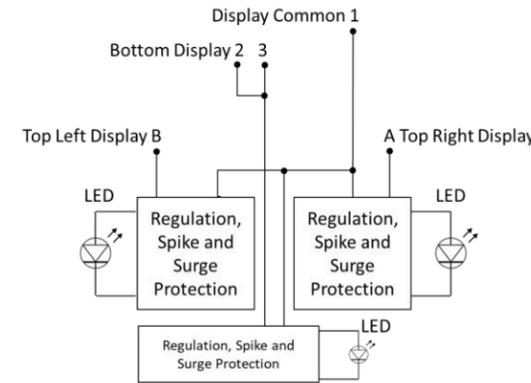
VERTICAL SPLIT DISPLAY



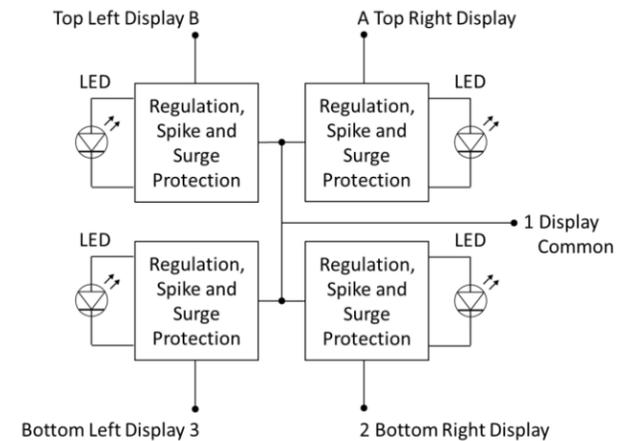
4-WAY DISPLAY – SPLIT COMMON



4-WAY DISPLAY – SINGLE COMMON



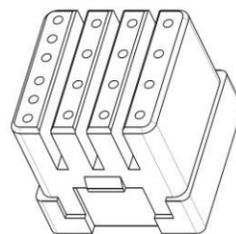
3-WAY TOP SPLIT DISPLAY



4-WAY DISPLAY

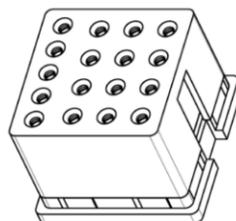
4-Week 389 Connector Options

6-Pin Connector Module



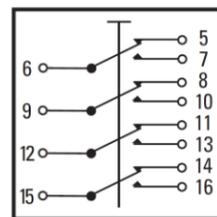
44387-001 module uses M39029/57-354 crimp pins, accepts AWG 22,24, and 26.

5-Pin Connector Module



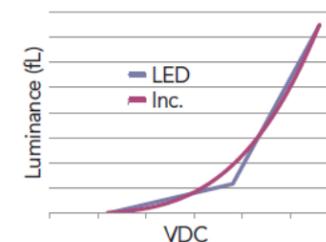
28196-XXX module uses M39029/22-192 crimp pins, accepts AWG 20, 22 and 240

Switch Circuit Diagram



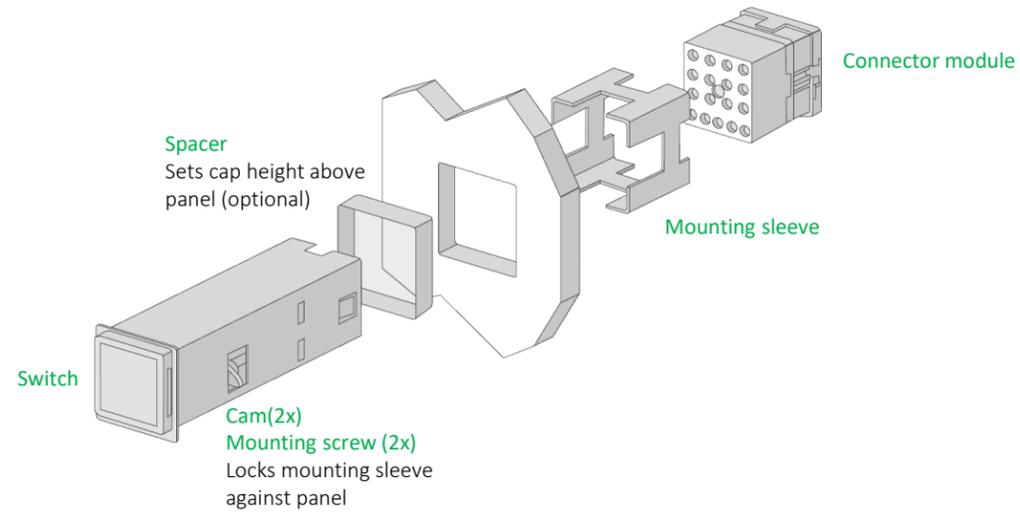
Dimming Methodologies

Variable Voltage

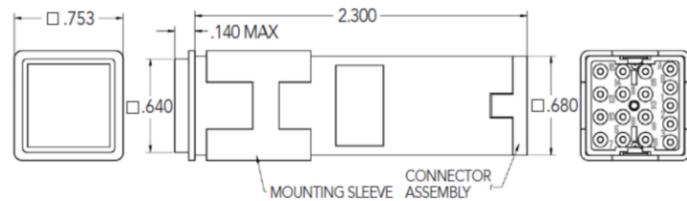


4-Week 389 Switch Envelopes and Panel Cutouts (dimensions in inches)

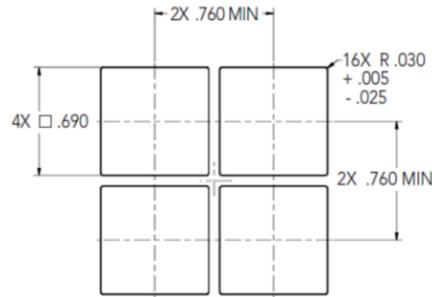
Universal-Sleeve Mounting Configuration



Universal Sleeve and Connector Module



Panel Cutout for Single Sleeve



Electrical and Operating Characteristics

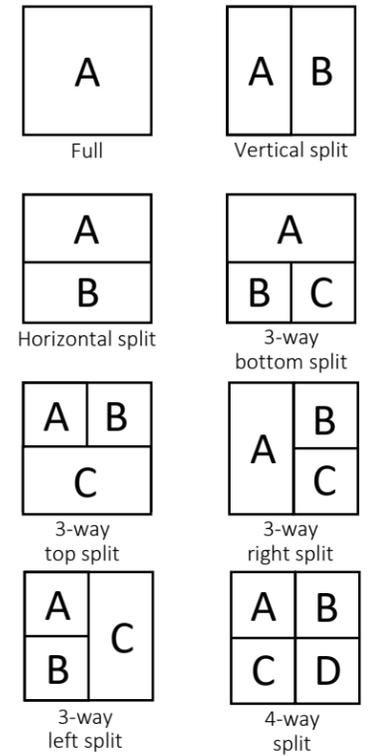
Property	Characteristics
Switch type	Momentary / alternate action, four pole, double throw, form C, single break microswitch IAW MIL-PRF-8805
Switch contact ratings	Resistive: sea level 7A at 28 VDC Inductive: sea level 4A at 28 VDC Lamp: sea level 2.5A at 28VDC
LED current rating	35mA max at 28 VDC, bright mode, full display
Total cap travel	0.177 inch max. (4.19 mm)
Actuation force	2-5 pounds (0.91-2.27 kg)
Cap extraction	2-5 pounds (0.91-2.27 kg)
Mounting torque	16-20 inch-ounces
Actuation life	100,000 cycles (MIL-PRF-22885)
Temperature	-55° C to +85° C (MIL-PRF-22885)

Legends

Legend Types

	Non-Energized Condition	Energized Condition
S (1B) Hidden legend. Letters not visible until illuminated. Lighted colored letters on opaque black background when energized		
B (1C) Hidden legend. Letters not visible until illuminated. Lighted colored background with opaque black letters when energized		
W (2D) Opaque black letters on white background. Background shows color when energized		
N (2G2) White letters on opaque black background. Letters show color when energized		
C (2B) Opaque black letters on colored background. Lighted colored background when energized		
(2F) Opaque white letters on dark background. Background shows color when energized		

Lens Configurations



Fonts

Legends are available in many fonts and character heights. Please contact us for details about your specific request

Optical Characteristics

	Luminance		Chromaticity		Contrast	
	Dim @ 14 VDC	Bright @ 28 VDC	X	Y	On	Off
RED	10 ± 5	200 - 500	0.670 0.670 0.695 0.710	0.334 0.310 0.285 0.292	0.6 Min	0 ± 0.1
AMBER	10 ± 5	200 - 500	0.570 0.560 0.600 0.610	0.430 0.420 0.380 0.390	0.6 Min	0 ± 0.1
GREEN	10 ± 5	200 - 500	0.200 0.200 0.320 0.320	0.640 0.740 0.740 0.640	0.6 Min	0 ± 0.1
BLUE	10 ± 5	150 - 400	0.140 0.140 0.200 0.200	0.250 0.150 0.150 0.250	0.4 Min	0 ± 0.1
WHITE	10 ± 5	200 - 500	0.280 0.280 0.340 0.340	0.270 0.370 0.370 0.270	0.6 Min	0 ± 0.1

- Luminance and color requirements are for legend types S (1B), B (1C), W (2D), C (2B), and (2F)
- Type N legends are used for night visibility and are designed to match the light-plate luminance value
- NVIS colors are available per MIL-STD-3009
- Korry products meet the night-vision compatibility requirements of MIL-STD-3009
- Contrast shown is for S legends only