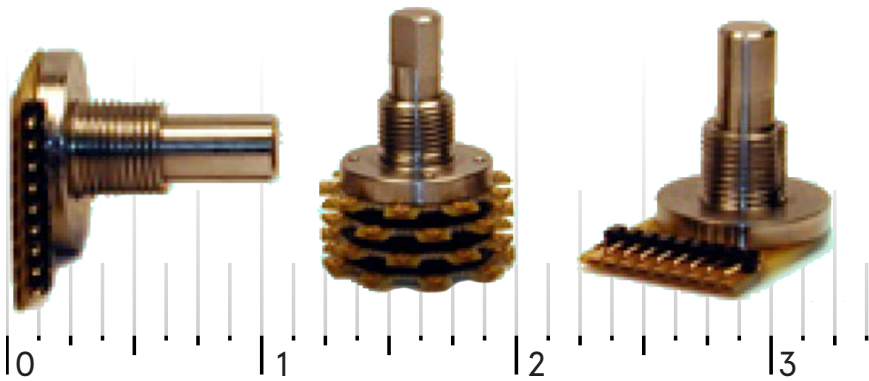


VERY LOW PROFILE ROTARY SWITCHES MINIATURE LOW CURRENT SERIES

Description: Unique Patent VLP[®] Designs Give The Designer The Most Functionality in The Least Space—Up to 83% Savings of Post Panel Depth Over Standard Rotary Switches!



- » MIL-DTL-3786/13
- » 0.750" Body Diameter
- » 0.250" Shaft Diameter
- » 75,000 Mechanical Life Minimum
- » 15, 30°, 36°, 45° Indexing
- » Multiple Pole Options
- » Multiple Output Code Options
- » Gold Plated Solder Pin Terminals
- » Flux Sealed
- » Mechanical Isolation Options
- » Programmable Stops

Mechanical Specifications:

- » Post panel depth for 1 deck: .230" maximum
- » Mechanical life: 75,000 cycles minimum
- » Rotational torque: 8–24 in-oz.
- » Stop strength: 8.0 in-lbs. minimum
- » Weight: 15 grams maximum

Electrical Specifications:

- » Switching current: 500 mA max @ 28 VDC resistive
250 mA max @ 28 VDC inductive
- » Non-switch (continuous): 3 A max @ 28 VDC (20°C temperature rise)
- » Contact style: Non-shorting or shorting
- » Contact resistance: 10 mΩ max initial, 50 mΩ max after life
- » Insulation resistance: 1000 Megaohms minimum IAW MIL-STD-202, Method 301 Test condition A (Shaft and terminals)
- » Dielectric strength: 750 VRMS IAW MIL-STD-202, Method 301 (Shaft and terminals)

Environmental Specifications:

- » Altitude: 70,000 feet
- » Temperature: -60°C to +85°C (working), -65°C to +125°C (storage)
- » Thermal shock: -55°C to +85°C per MIL-STD-202, Method 107, Test condition A
- » Shock: 100 G's, 6 milliseconds IAW MIL-STD-202, Method 213, Test condition I
- » Vibration: 15 G's at 70–2000 Hz; .06" double amplitude at 10–70 Hz MIL-STD-202, Method 204, Test condition B
- » Explosion proof: IAW MIL-STD-202, Method 109 with test load 125 mA @ 28 VDC
- » Salt spray: IAW MIL-STD-202, Method 101, Test condition B
- » Sand and Dust: IAW MIL-STD-202, Method 110, Test condition B
- » EMI/RFI Shielding: IAW MIL-DTL-3786 with 2 ohms shaft to ground

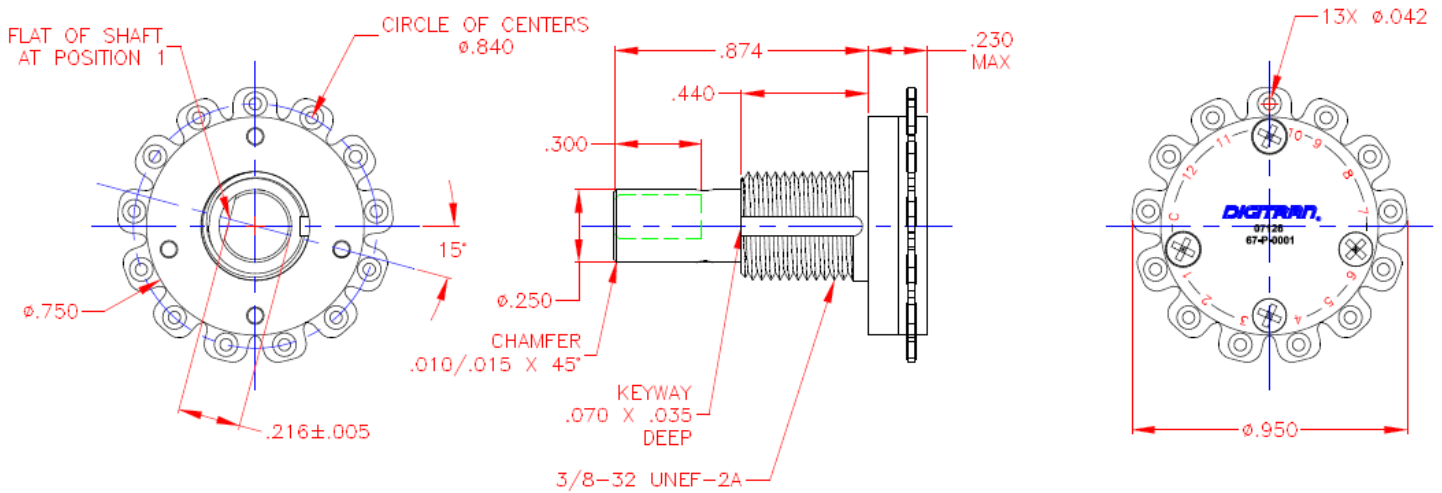
Material Specifications:

- » Molded parts: Thermoplastic
- » Machine parts: Stainless steel and non-corrosive materials
- » Printed circuit board: FR-4 laminate per MIL-PRF-55110
- » Contact: Beryllium copper with gold plating
- » Terminals: Gold plated pins
- » Hardware: Cadmium plated brass (nut and washer)

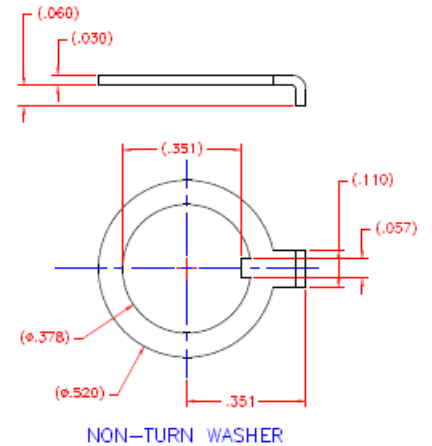
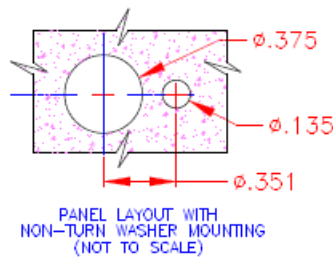
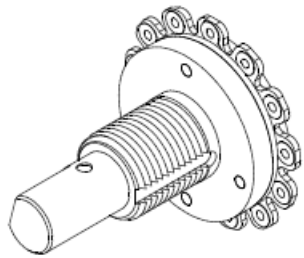
Applications

- » Avionics Panels
- » Display Systems
- » Portable Equipment
- » Flight Deck Instrumentation
- » Medical Instrumentation
- » Entertainment Equipment
- » High Reliability Controllers
- » Signal Processing Equipment
- » Rugged Instrumentation
- » Cockpit Displays
- » Navigation Equipment
- » Patient Monitors

DIGITRAN SERIES 67 - VLP® (VERY LOW PROFILE) ROTARY SWITCHES



Note: Add 0.12" in length for each additional deck.



- Notes:
1. Dimensions: Inches [mm]
 2. Tolerances: in $\pm .010$, mm $\pm .25$
 3. Ea deck adds $.109$ in to depth
 4. Shaft flat is opposite made position
 5. Shaft flat: $.250" L \times .031" W$
 6. Decks numbered out from panel
 7. All terminals gold plated
 8. Hardware included with switch

ORDERING GUIDE

67X - XX X - X X X - X X XX

- 671= 0.125" Dia Shaft, Stainless Steel Bushing
- 672= 0.25" Dia Shaft, Stainless Steel Bushing
- 673= 0.125" Dia Shaft, Aluminum Bushing
- 674= 0.25" Dia Shaft, Aluminum Bushing
- 675= 0.125" Dia Shaft, Composite Bushing
- 676= 0.25" Dia Shaft, Composite Bushing

INDEXING ANGLE (15° , 30° , 36° , 45°)

NUMBER OF DECKS (6 Decks Max)

POLES PER DECK (3 Max)

OUTPUT CODE

(1=Direct, 2=Binary, 3=Custom, 4=Mixed)

TERMINAL STYLE (1=Solder Tabs, 2= Header Pins, 3=PCB Pins)

STOP FEATURES:

With S (stop feature): For this option, add number of active positions for switch. For example, S5 means stops between positions 1 and 5.

With C (continuous): Full turn without stops.

MIL SPEC (M*=Full MIL-DTL-3786 Compliant, X=Non-Mil) All units, M or X, Have Shaft & Panel Seal.

CONTACT STYLE (N=Non-Shorting, S=Shorting)

§ Customer To Specify Requirements By Notes or Drawing

Questions? Contact Digitran Sales Department at extension 3227, or via email at sales@digitran-switches.com

DIGITRAN®

AS9100D Certified

© 2021 by Digitran. All rights reserved.

10410 Trademark Street, Rancho Cucamonga, CA 91730
www.digitran-switches.com (909) 581-0855 Fax: (909) 581-0854

The information in this document is provided for informational use only and is subject to change.

67DSUS061121