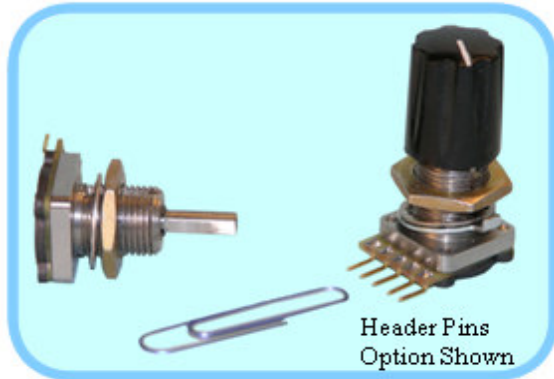


VERY LOW PROFILE ROTARY SWITCHES

MICRO - MINIATURE LOW CURRENT SERIES



- Patent Pending VLP[®] Design Gives The Most Functionality in the Least Space & Weight
- The Best Choice Where A High Reliability Rotary Switch is Required With Minimum Post Panel Depth
- Made In USA, Contact Factory for Custom Requirements

Operational Specifications:

Temperature: -65°C to +125°C

Altitude: 70,000 feet

Mechanical Specifications:

Post Panel Depth: 0.141 in. max. (flex circuit interface w/o rear cover)

Index Angle: Choice of 30°, 36°, or 45° Standard

Operating Force: 6-32 in-ounces, customer specified

Life: Minimum of 1,000,000 detent operations.

Weight: 0.32 oz 1 deck, +0.14 oz each added deck (with hardware).

Contact Style: Break Before Make standard.

Stop Locations: Customer Specified (if required)

Output: Customer specified Output Codes (Direct, BCD, BCO, etc.)

Interface: Headers, Solder Tabs, PCB Pins, Flex Circuit, Edge Conn.

Electrical Specifications:

Switching Current: 28 VAC/VDC at 125ma max resistive. Non-switching Current: 1 amp max at rated operating temperature.

Contact Resistance: <10 milliohms initial. 60 milliohms maximum change during life of switch.

Insulation Resistance: 1000 megohms minimum per MIL-STD-202, Method 302. Test Condition A.

Dielectric Strength: 750 VRMS per MIL-STD-202, Method 301. 250 VRMS at reduced pressure.

Environmental Specifications: (* M Modules Only)

Moisture Resistance: Per MIL-STD-202, Method 103, 40°C ±2°C and 90% to 95% relative humidity. 25 megohms minimum insulation resistance.*

Storage Temperature: -75°C to +125°C

Thermal Shock: -55°C to +85°C per MIL-STD-202, Method 107, Test Condition A.

Shock: 100 G's, 6 milliseconds, MIL-STD-202, Method 213, TC1.

Vibration: 15 Gs at 70-2000 Hz; .06" double amplitude at 10-70 Hz. (Ref: MIL-STD-202. Method 204, Test Condition B.)

Explosion Proof: Per MIL-STD-202, Method 109, with test load of 28 VDC @ 125 milliamps resistive.*

Altitude: 0-70,000 ft. with corresponding de-rating of dielectric strength to 250 VRMS.

Salt Spray: Per MIL-STD-202, Method 101, Test Condition B.

Measurements after exposure non-applicable.*

Sand and Dust: MIL-STD-202, Method 110, Test Condition B.*

Materials:

All Metals: Stainless Steel & Non-Corrosive Materials

Printed Circuit Boards: Oxygen Free FR4 Laminate per MIL-PRF-55110F

Terminals & Contacts: 0.000050 in. Gold over Nickel over Copper.

Specifications Subject To Change Without Notice.

08/07

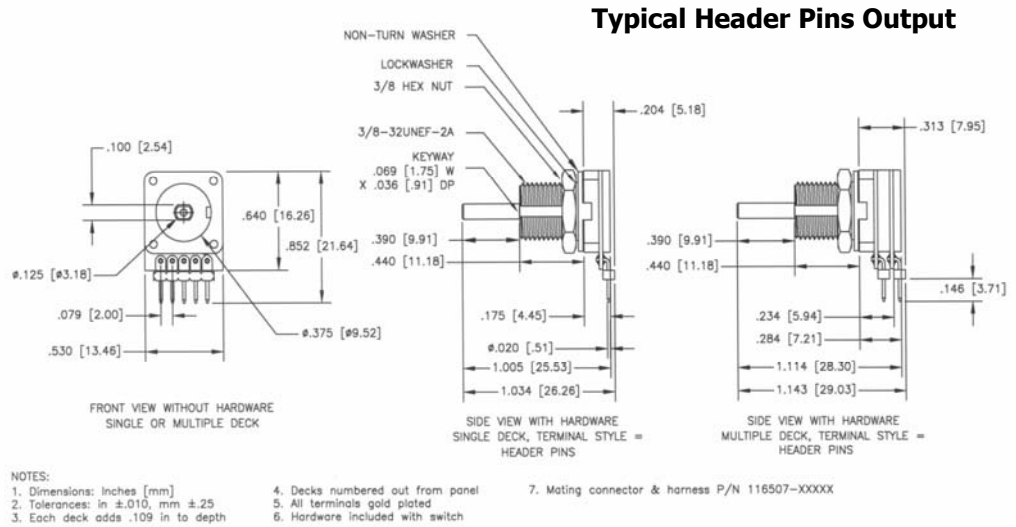
Applications

- 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

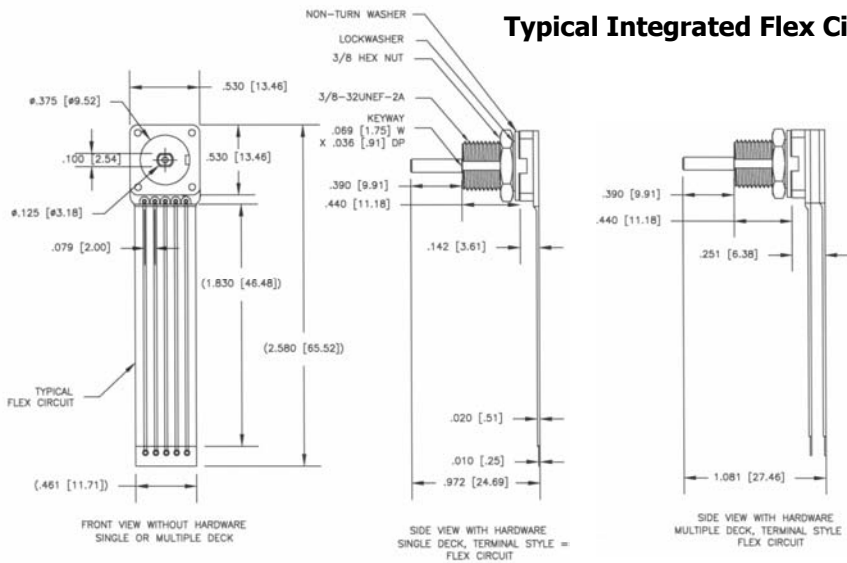
DIGITRAN SERIES 57 - VLP® (VERY LOW PROFILE) ROTARY SWITCHES

Design & Selection

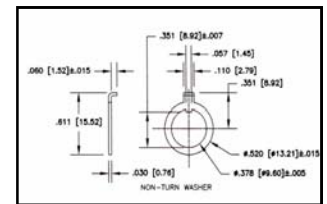
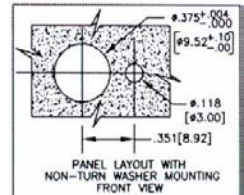
1. Determine Index Angle
2. Determine Output Code
3. Determine # Poles & Decks
4. Determine Stop Locations
5. Determine Contact Type (Shorting or Non-Shorting)
6. Select Interconnect Type—For Flex Circuit, Specify Length & Interface (Connector, Solder Rings, etc.)
7. Determine Part Number From Ordering Guide (Below)
8. Contact Factory with Questions



Typical Integrated Flex Circuit Connector



Note: For Absolute Minimum Depth, Rear Cover Can Be Eliminated, As Shown. Rear Cover Adds 0.035" to PPD



Specifications Subject To Change Without Notice 11/05

ORDERING GUIDE

57X - XX X - X X X - X XX X

- 571= 0.125" Dia Shaft, Stainless Steel Bushing
- 572= 0.25" Dia Shaft, Stainless Steel Bushing
- 573= 0.125" Dia Shaft, Aluminum Bushing
- 574= 0.25" Dia Shaft, Aluminum Bushing
- 575= 0.125" Dia Shaft, Composite Bushing
- 576= 0.25" Dia Shaft, Composite Bushing

INDEXING ANGLE (15°, 30°, 36°, 45°)

NUMBER OF DECKS (4 Decks Max)

POLES PER DECK (2 Max)

OUTPUT CODE

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

TERMINAL STYLE (1=Solder Tabs, 2= Header Pins,

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

STOPS (00=No Stops, XX=Identify First & Last Stop Locations, A=10, B=11, C=12, etc., 1 Stop Only =01)

Example 3A=Stops in Positions 3 & 10,

Active Positions 3 thru 10 inclusive

Example 15= Stops in Positions 1 & 5,

Active Positions 1 thru 5 inclusive.

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

§ Customer To Specify Requirements By Notes or Drawing

Questions? Contact Digitran Applications Engineering at extension 3223, or via email at "applications@digitran-switches.com"

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