



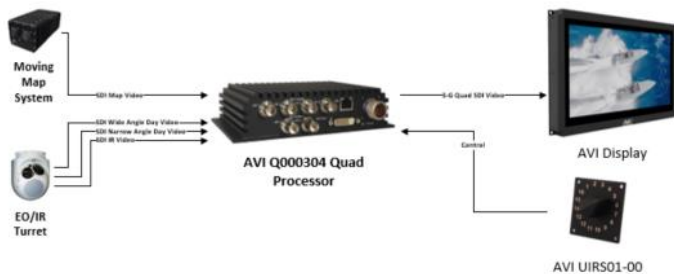
# 16 Position Rotary Switch

## Overview

The AVI User Interface Rotary Switch (UIRS) is a rugged, generic rotary switch unit. It is capable of stand-alone operation or in conjunction with other AVI products. General Purpose I/O outputs allows the unit to be used by any system that supports GPIO control or in combination with AVI's General Purpose Processor (GPP).

Switch positions, output, and number of positions can be customized to match the function required by the application use. AVI's UIRS uses a rugged 4-bit encoder interfaced to a microcontroller to produce any combination of 4 bits for any of the switch selection positions. To control the number of selections, encoder position stops can be inserted into the encoder.

AVI's UIRS provides a unique solution for implementing the human user interface for endless system applications.



## Standard Features

- 2-16 positions
- Different knob options available
- 4 GPIO outputs
- 5V-12V DC Power
- <10mA current draw
- LEMO circular connector
- -45C° to 70C° operation
- Three-year warranty



## Benefits

- Flexible point-of-use control interface
- Light weight and rugged
- Easy panel-mount design
- Vibration and shock resistant rotary encoder
- Dust and water proof
- Custom Icons
- High cycle limit

## Typical Applications

- Surveillance systems control
- Airborne sensor systems control
- Naval and Coastguard sensor systems control
- Ground Vehicle sensor systems control
- Gas and oil platform controls
- Indoor and Outdoor perimeter security control



AVI – Optimize your sensor

# 16 Position Rotary Switch- Specifications

<b>IO</b>	<ul style="list-style-type: none"> <li>Connector LEMO HEN.1M.308.XLNP</li> <li>Mating connector LEMO FGN.1M.308.XLCT</li> </ul>	<b>Environmental</b>	<ul style="list-style-type: none"> <li>Operating Temp Low -45°C DO-160G Cat B2</li> <li>Operating Temp High +70°C DO-160G Cat B2</li> <li>Short Term Op Temp Low -45°C DO-160G Cat B4</li> <li>Short Term Op Temp High +70°C DO-160G Cat B4</li> <li>Ground Survival Low Temp -55°C DO-160G Cat B4</li> <li>Ground Survival High Temp +85°C DO-160G Cat B4</li> <li>Temp Variation 5C° per minute DO-160G Cat B</li> <li>Humidity 38C° to 95@ 50C° DO-160G Cat A</li> <li>Operational Shock 6g @ 11ms, 20G DO-160G Cat B</li> <li>Vibration Random, 10-2000Hz DO-160G Cat U, U2</li> <li>Explosion Proofness* MIL-STD-810G Method 511.6</li> <li>Waterproofness Drip Test DO-160G Cat Y</li> <li>Magnetic Effect DO-160G Cat A</li> <li>Power Input* DO-160G Cat A</li> <li>Voltage Spike 2x Line Voltage DO-160G Cat B</li> <li>EMI/EMC Sec 18, 19, 20, 21 DO-160G Cat B, CC, R, M</li> <li>ESD* DO-160G Cat A</li> <li>Ingress Rating IP68</li> <li>Altitude Operating 50,000ft DO160G Cat D1</li> </ul>
<b>Model Numbers</b>	UIRS02-00 Programmable Rotary Switch	To be DO-160 Tested *By Similarity	
<b>Power</b>	<ul style="list-style-type: none"> <li>+5-12 V DC</li> <li>0.010 A @ 12 V DC</li> </ul>		
<b>I/O</b>	<ul style="list-style-type: none"> <li>Four +3.3V independent lines</li> <li>One common Ground</li> </ul>	<b>Dimensions and Weight</b>	<ul style="list-style-type: none"> <li>54mm [2.13in] W, 56mm [2.20in] H, 29.67mm [1.17in] D</li> <li>0.060 kg [0.123 lbs]</li> </ul>

