

# 10mm Aperture, Protected Silver, Saturn 9B Dual Axis Galvanometer Scanner

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10mm Aperture, Saturn 9B Dual Axis Galvanometer Scanner



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Mirror Aperture (mm):  
10

Surface Flatness (P-V):  
≤λ/4 @ 632.8nm

Type:  
Dual Axis

Coating:

|                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protected Silver                                                                                                                                                                                                                                                        |
| <b>Scan Angle (°):</b><br>40 (Optical)                                                                                                                                                                                                                                  |
| <b>Substrate:</b> <input type="checkbox"/><br>Silicon (Si)                                                                                                                                                                                                              |
| <b>Operating Temperature (°C):</b><br>0 to +50                                                                                                                                                                                                                          |
| <b>Dimensions (mm):</b><br>70.1 x 55.7 x 54.5 (of mount. Galvos protrude ~19mm)                                                                                                                                                                                         |
| <b>Power Requirement:</b><br>±24 VDC                                                                                                                                                                                                                                    |
| <b>Position Signal (V):</b><br>±10                                                                                                                                                                                                                                      |
| <b>Current - Peak (A):</b><br>Maximum: 25                                                                                                                                                                                                                               |
| <b>Current - RMS (A):</b><br>5.7 (Case @ 50°C)                                                                                                                                                                                                                          |
| <b>Coil Resistance (Ω):</b><br>1.65                                                                                                                                                                                                                                     |
| <b>Rotor Inertia (gm-cm²):</b><br>0.032                                                                                                                                                                                                                                 |
| <b>Torque Constant (dyne-cm/A):</b><br>41,000                                                                                                                                                                                                                           |
| <b>Coil Inductance (μH):</b><br>130                                                                                                                                                                                                                                     |
| <b>Back EMF Voltage (μV/°/s):</b><br>71.6                                                                                                                                                                                                                               |
| <b>Step Response 0.1° (μs):</b><br>300                                                                                                                                                                                                                                  |
| <b>Model Number:</b><br>ScannerMAX Saturn 9B                                                                                                                                                                                                                            |
| <b>Power Supply:</b><br>Power Supply Required and Sold Separately.<br>USA: <a href="#">#16-045</a><br>Europe: 2 x <a href="#">#14-571</a><br>Japan: <a href="#">#16-045</a><br>Korea: N/A*<br>China: <a href="#">#16-045</a><br>*See copy for power supply requirements |

Regulatory Compliance

|                                                            |
|------------------------------------------------------------|
| <b>RoHS:</b><br><a href="#">Compliant</a>                  |
| <b>Certificate of Conformance:</b><br><a href="#">View</a> |