Thermo Scientific PXS11 Microfocus X-ray Sources

The Thermo Scientific™ PXS11 Microfocus X-ray Source is a cost-efficient solution for applications that require resolution at the sub-millimeter scale. Primary applications are in the field of medical imaging, for example for cancer screening, where lower energy X-rays are sufficient to deliver the required detection specificity. More generally, PXS11 sources are used in component inspection applications and for non-destructive testing. Digitally controlled, the 75 kV PXS11 has a simple, compact robust design that is easy to install. It offers a stable, reliable output and delivers high quality 2D and 3D images over the long term with minimal manual attention.

Key features

- **Simple, durable design:** to ensure high reliability over a long lifespan
- **Small, round spot:** to produce high-resolution, low distortion, high-quality images
- **Short FOD (focal object distance):** to deliver excellent geometric magnification and short image acquisition times
- **Digital interface:** to enable easy operation with access to diagnostics and operating logs to ensure optimal on-going performance; active status display
- **Fully integrated design:** to reduce space requirements, with x-ray tube, high-voltage power supply, and controller in a single package powered from a 28 VDC source

PXS11 X-ray Source

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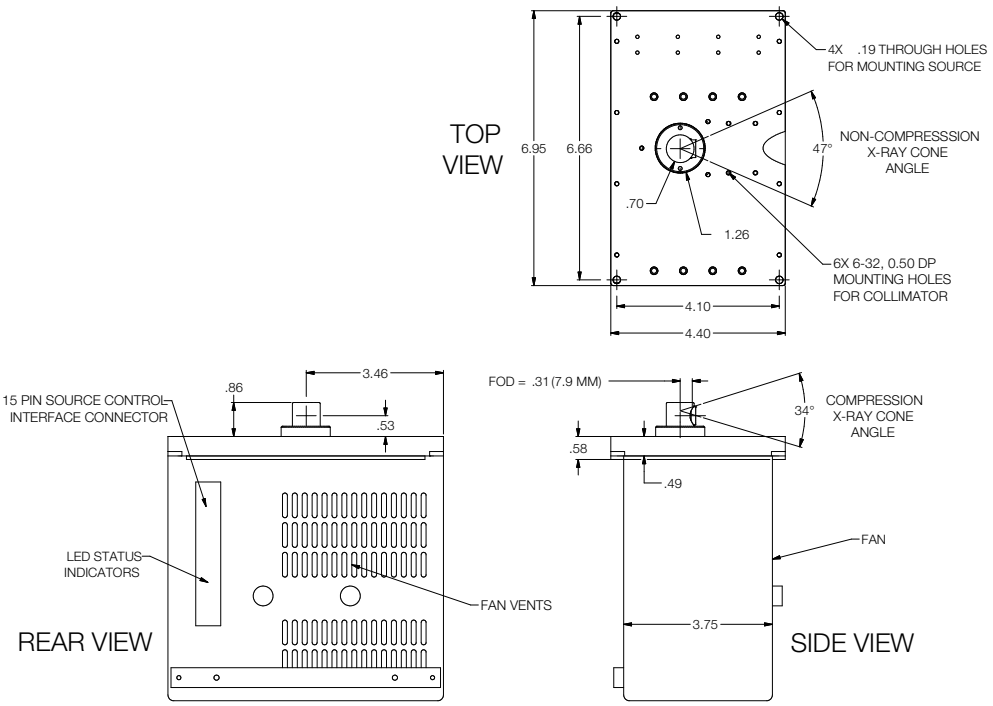
Specifications

PXS11-100-35-Rohs X-ray Source	
Maximum tube voltage	75 kV
Operating voltage range	20–75 kV
Tube current operational range	0–100 µA
Maximum power output	7.5 W
Minimum focal spot size	45 µm
X-ray beam angle	34°, nominal
Focus to object distance (FOD)	8.9 mm
Target material	Tungsten
X-ray output window material	Beryllium
Weight	4.0 kg
Ambient temperature and humidity	0–30 °C, 0–95% RH, up to 1,500 m (5,000 ft) altitude
Method of cooling	Internal fan. Adequate air circulation around unit must be provided
Input power	28–30 VDC, 3A max, measured at the source
Control interface	Analog control and monitoring of operating conditions and status

Outline drawing of PXS11-100-35-Rohs X-ray Source



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