

**41087**21-12583 Rev: A
Date Issued 22JAN21
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PHOTONIS ADVANCED PERFORMANCE DETECTOR

APD 2 MA 25/12/10/12 D 60:1 4.5"FM

MCP CHARACTERISTIC

Quality Diameter:
Center-to-Center Spacing:
Pore Size:
Bias Angle:
Open Area Ratio:
Test/Inspection Level:

SPECIFICATION

25 mm Minimum
12 μ m Nominal
10 μ m Nominal
12° \pm 1°
55% Minimum
Detection Quality

DETECTOR CHARACTERISTIC

Electron Gain:
MCP Resistance:
Bias Current Range:
Dark Counts at Gain Voltage:
Pulse Height Distribution @ Gain Voltage
Maximum Operating Voltage

SPECIFICATION

1X10⁷ Minimum @ 2400 Volts
83-600 M Ω
4-29 μ A @ 2400 Volts
5 counts/second/cm² Maximum
100% Maximum
2400 Volts

Electrical characteristics are measured at the optimum MCP operating voltage (the lowest bias voltage required to attain the specified values).

The Chevron™ detector assembly contains two matched Detection Quality Advanced Performance Long-Life™ Microchannel Plates and a metal anode readout mounted in stainless steel hardware. The detector is mounted on a 4.5" CF vacuum flange with four radially mounted SHV5 connectors. The assembly is bakeable to 300°C.

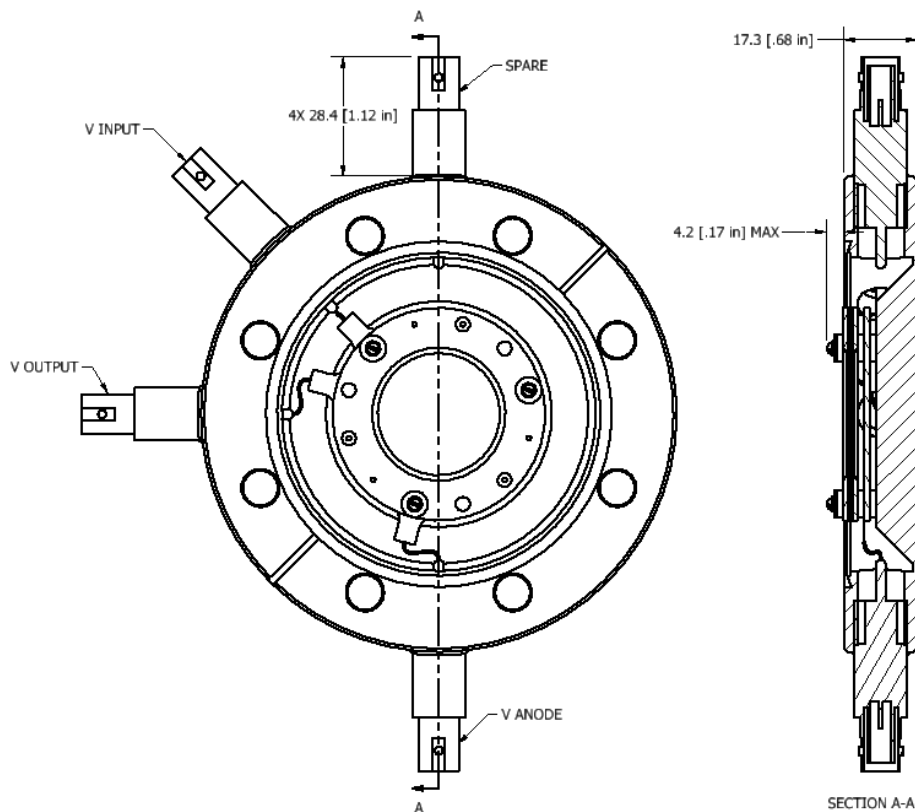
Detection Quality detector assemblies are intended for use in applications where image quality is not critical. These economical devices are used as signal detectors and amplifiers and are typically used in applications such as time-of-flight mass spectrometry, residual gas analysis (RGA), or point source detectors.

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Mechanical Layout (not to scale)

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PHOTONIS
Scientific Detectors

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