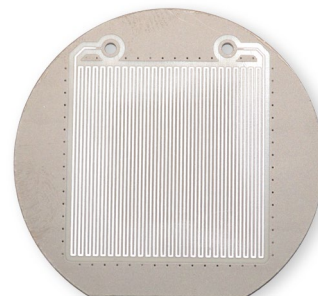
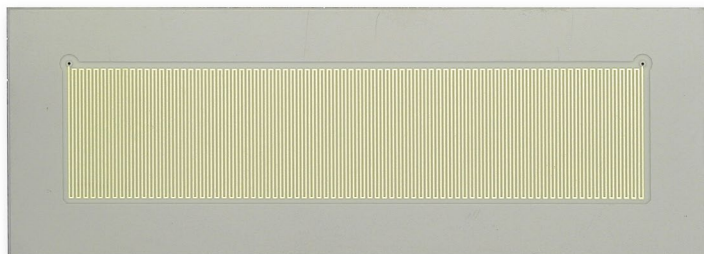


Delay-Line (1D) and Cross Delay-Line (2D) Detectors

High count rate, high spatial and time resolution, single particle detectors



Highlights

Feature	Benefit
Working in "counting mode"(NOT in integration of charge)	Extremely linear
Single count x, y and t information availability	Essential in time resolved acquisitions
Cross delay anodes techniques for position decoding	Intrinsically suitable for timing information

How Does It Work?

The Delay-Line (1D) and Cross Delay-Line (2D) Detectors are part of the acquisition chain in the 3D (x, y, t) Cross Delay-Line Detectors.

The electromagnetic pulses generated by charge amplifiers (i.e. MicroChannel Plates) propagate through the delay lines, reaching

the ends of the path at different times; these differences are used to calculate the hit position and time.

The detector's mechanical assembly can be made suitable for mounting on most commercial electron analysers.

Specifications

2-D detector size	30 x 30 mm
	90 x 20 mm
	46 x 46 mm
2-D detector size, in "equivalent pixels"	30 x 30 mm
	90 x 20 mm
	46 x 46 mm

Related Products

- RF Pulse Amplifier
- CFD4, 4-Channel Constant Fraction Discriminator
- THR08-TDC, Advanced 8-Channel Time to Digital Converter

See the single product brochures for details.



Contact us!

Industrial Liaison Office

Elettra – Sincrotrone Trieste S.C.p.A.
S.S. 14 Km 163,5 in Area Science Park
34149 Basovizza, Trieste, Italy
ilo@elettra.eu – www.elettra.eu/industry

