SCIONIX

C-Style Crystal Assemblies

Encapsulated scintillation crystals without photomultiplier tube

Crystals in an aluminium, stainless steel or copper housing, sealed with a glass or quartz window for the customer's own photomultiplier tube. Available with an axial well (CP) for well counters and with a thin aluminium or beryllium window (CA/CD) for low-energy X-rays.



Energy range

Gamma rays and X-rays 30 keV–2 MeV; for higher energies BGO without optical window [1]

Entrance window

Thin window (CA/CD): 25 µm aluminium from 10 keV or 0.25–0.3 mm beryllium from 3 keV [1]

Specifications

Format	Crystal in an aluminium, stainless steel or copper housing; hygroscopic crystals are sealed with a glass or quartz window for optical coupling to the customer's light sensor	[1]
Detector housing	Aluminium 0.5 mm (standard) or stainless steel 0.8 mm (harsh environments)	[1]
Energy range	Gamma rays and X-rays 30 keV–2 MeV; for higher energies BGO without optical window	[1]
Well dimensions (CP)	51 CP 51: Ø 25.4 x 39.3 mm or Ø 16.6 x 39.3 mm; 76 CP 76: Ø 25.4 x 52 mm; well wall 0.3 mm aluminium	[1]
Entrance window	Thin window (CA/CD): 25 µm aluminium from 10 keV or 0.25–0.3 mm beryllium from 3 keV	[1]
Use	The CP style is used in well counters, e.g. in medical applications, and in wipe test detectors	[1]
Detector option	Low-background materials (steel or copper), ruggedised version (CR), flanges or O-ring grooves	[1]

Sources

[1] **Examples of standard detector configurations**
Scionix · product-page · C-styles and CP-styles; Application; Thin window crystal assemblies: CA-styles, CD-styles · checked 2026-11-26
https://scionix.nl/standard/

Every value is taken from the manufacturer's own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer's published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.