

SD1100-01(X-Ray NaI(Tl) detectors)

SD1100-01 NaI(Tl) detector is a high efficiency scintillation detector consisting of a beryllium entrance window NaI(Tl) scintillator, a photomultiplier tube, an internal magnetic/light shield, a voltage divider and preamplifier circuit board, it can directly output the negative pulse signal. SD1100-01 NaI(Tl) detectors have a proven record of long term reliability and stability. Typical energy resolutions are $\leq 60.0\%$ fwhm at 5.9keV(Fe-55).



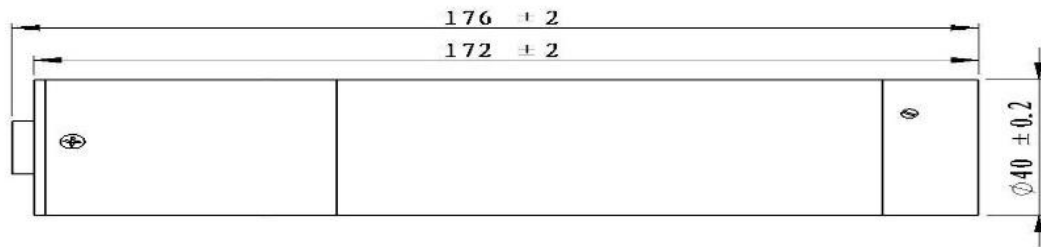
Modules or types

Specification of SD1100-01(X-Ray NaI(Tl) detectors)

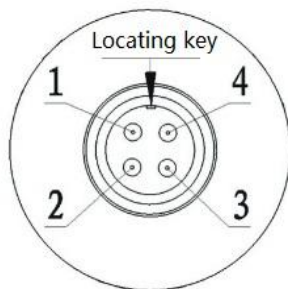
25°C

SD1100-01(X-Ray NaI(Tl) detectors)		Value	Unit
Detector	Scintillator	NaI(Tl) crystal(beryllium entrance window)	---
		Dia.27x2	mm
	Photomultiplier Tube	Hamamatsu PMT	---
	HVPS	Externally Provided	---
	Voltage Divider	Internally Installed	---
	Preamplifier	Internally Installed	---
Performance	Detection Object	X-Ray	---
	Energy Resolution	$\leq 60.0\%$ @5.9KeV(Fe-55)	---
	Output Signal	Negative Pulse Signal	---
0.5V@5.9KeV(Fe-55)		---	
Operating Environment	Input Voltage	-12±0.5	V
	Operating Temperature	0~+40	°C
Storage and Transportation Environment	Temperature	-22~+55	°C
	Humidness	$\leq 70\%$	---

Dimension and Connection(Unit: mm):



Dimension of SD1100-01



Interface diagram

Connector	1	2	3	4
Cable	Red Cable	Yellow Cable	Coaxial Cable	Blue Cable
Cable Definition	High Voltage Input	-12V Input	Signal Output	Grounding

Cable Definition and Function

Matters need attention:

- 1) Each detector is thoroughly tested before shipping and comes with a 12 months guarantee, we are responsible for the repair, replacement within the warranty period, and provide technical support. Please don't disassemble the detector by yourself, in case of any questions please contact us.
- 2) The packaged product allows to transport by cars, trains, airplanes, ships and other transportation vehicles, transportation should prevent severe shock, severe vibration, rain and so on.
- 3) Scintillation detector should be stored in a cool, dry environment.
- 4) Please pay attention to the input voltage value and polarity, improper input voltage will lead to the detector does not work and even damage.
- 5) The cable should be correctly connected to the connector, incorrect connection may lead to detector damage.