SCIONIX HOLLAND BV

Dedicated Scintillation Detectors

Regulierenring 5 3981 LA Bunnik The Netherlands

Tel.: 31 (0)30 657 0312 Fax: 31 (0)30 656 7563

E-mail: administration@scionix.nl

Dedicated Scintillation detectors

Page

1

Ship to:

Università degli studi di Milano Bicocca Attn. Ms. M. Cogliati

Dipartimento di Fisica "G. Occhialini"

Piazza della Scienza 3

Edificio U2

20126 Milano (MI)

Italy

Bill to:

Università degli studi di Milano Bicocca

Attn. Mr. M. Nastasi

Dipartimento di Fisica "G. Occhialini"

Piazza della Scienza 3

20126 Milano (MI)

Italy

Packing list

Shipping date

29-02-2024

Delivery no.

: 410687

Your ref. 2

: CIG:Z193DB978C

Our order no.

: 210126

Delivery terms: Delivered At Place

Your order no./ref.: n° 419 /Project 2020-Cont-0359

E-mail

: ordini-dfo@unimib.it

Qty. Unit Itemcode No. Description **Nett weight** each (kg)

Total nett weight (kg)

1 1.00 pc(s) 51B51/2M

Tariff code number 9030900000

0.7200

0.7200

Country of origin EU, The Netherlands

Scintillation detector consisting of a Ø51 mm, 51 mm high NaI(TI)

scintillation crystal mounted in an aluminium housing, optically coupled to a Ø51 mm PMT, surrounded by a solid mu-metal shield, ending in a 14

pins blue base.

Fully finished according to drawing VS-0008-55.

Serial nos.: S1AB3894

2 1,00 pc(s) VD14-E2

Tariff code number 9030900000

0,1800

0,1800

Country of origin EU, The Netherlands

Plug on voltage divider, equipped with a preamplifier.

Including a power cable from LEMO FFA 0S 302CLAC37 to 9 pins Sub-D.

Fully finished according to drawing: ES-2003.

SVF820

Signature

Packing list electronically approved

Remarks:

Bank: ABN AMRO Bank N.V.

EURO account no.: 24.74.20.468

VAT no.: NL 80 15 95 824 B01

BIC: ABNANL2A

IBAN: NL07ABNA0247420468

Chamber of Commerce: Utrecht, Reg. No. 30109468





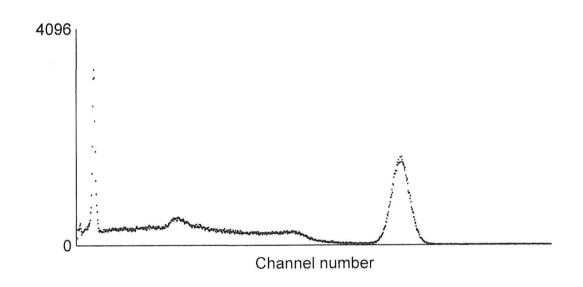
TESTSHEET

Detector type : 51B51/2M

Crystal : Nal(Tl)

Read-out : ETL 2" Type 9266

Serial number : S1AB3894



TEST RESULTS

Nuclide : Cs-137 (662 keV)

Energy resolution : 6.3 %

Noise : N/A

Peak to valley : N/A

GEE : N/A

High voltage : +610V

Date : 26 February 2024

Remarks : N/A

Tested by : Luuk Timmerman

Signature :



DATA SHEET

51B51/2M

Description:

NaI(TI) scintillation detector with standard 14 pins connector

Scintillation crystal : Nal(TI), Ø51x51 mm.

Drawing : VS-0008-55.

Housing : 0.5 mm aluminium.

Magnetic shielding : Solid 0.63 mm around PMT.

Photomultiplier tube : Ø51 mm, ETL 9266

Dimensions: Length : 185 mm.

Diameter: 58.8 mm.

Connections: 14-pins JEDEC connector.

Temperature range : -20 °C to +65 °C.

Performance

Energy resolution : <7.5% FWHM @ 662 keV

Gain stability : < 1% over 24 hours at 20 °C

Typical high voltage : 500 to 900 V

Last revision: 01-08-2023 Revision number: 1

Document name: 51B51_2M

Scionix Holland B.V.

Regulierenring 5 3981 LA Bunnik The Netherlands Tel: + 31 30 657 03 12 Fax: +31 30 656 75 63 Website: www.scionix.nl E-mail: sales@scionix.nl



DATA SHEET

2" Plug-on Voltage Divider model VD14 – E2

Model Number : VD14 - E2.

Description: Plug-on Voltage Divider

with preamplifier included suited for use with 51, 76 mm 130 mm

photomultiplier tubes.

Dimensions: 58 mm diameter, 61 mm high,

Aluminum housing.

Mounting screw
Housing of Aluminium
Built-in Voltage divider
+ Preamplifier

14 pins socket

Connectors : High Voltage : SHV

Signal : BNC

Preamp. power : Dual lemo type ERA0S302CLL

(Standard) Pin 1 = + 12 V (female) Pin 2 = - 12 V (male)

Power cable from LEMO FFA 0S 302CLAC37

to 9 pins Sub-D. Pin layout : Pin 1 = Ground (braid)

Pin 4 = +12 V (brown) Pin 9 = -12 V (white)

Power requirements : +12 V, 16 mA; -12 V, 16 mA; total 300 mW.

Max. ±18 V.

Resistor chain : $5.6 \text{ M}\Omega$ total

Photomultiplier Tube : 3" ETL 9305, 2" ETL 9266, 5" ETL 9390,

Hamamatsu R1307, R6231, R6233, ADIT B51, B76

series or equivalent.

Output impedance : 50Ω .

Output pulse polarity : Positive

Pulse fall time : Approx. 50 μs

Maximum signal height: $0 - \pm 10 \text{ V}$

Temperature range : -20 to +65 °C.

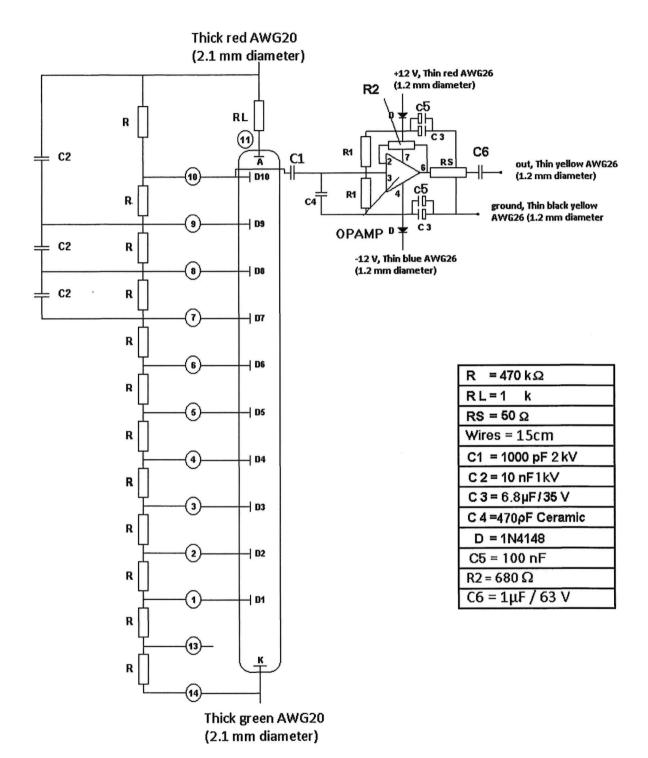
Last revision: 28-01-2017 Document Name: VD14-E2 Scionix Holland B.V.

P.O. Box 143 3980 CC Bunnik The Netherlands

Tel: + 31 30 657 03 12 Fax: +31 30 656 75 63 Website: www.scionix.nl E-mail: sales@scionix.nl



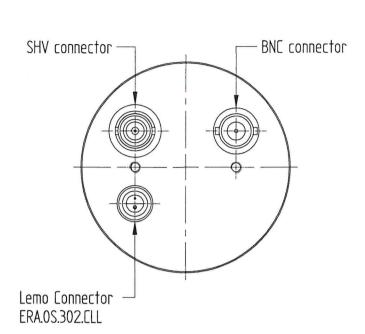




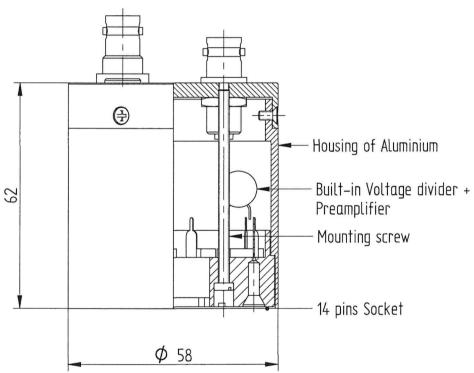
Last revision: 28-01-2017 Document Name: VD14-E2 Scionix Holland B.V.

P.O. Box 143 3980 CC Bunnik The Netherlands

Tel: + 31 30 657 03 12 Fax: +31 30 656 75 63 Website: www.scionix.nl E-mail: sales@scionix.nl







CHECKED: C.V.	⊕⊖	DIMENSIONS: MM	RIVISIE	DEFINITION	
SCALE: 1:1	DRAWN:	14-02-2018	R4		
T A			R3		
SCIONIX SCIONIX HOLLAND BV Radiation Detectors & Crystals		P.O. Box 143 3980 CC Bunnik The Netherlands Tel. 31 (0)30 657 0312 Fax. 31 (0)30 656 7563	R2		
			R1		
			TYPE:	VD14-E2	
TITLE: ASS	EMBLY		DWG. No.	ES-2003	A 4