

## 25A25/1M-E1-YAP-X-NEG

**Description :** Demountable YAP:Ce X-ray detector with aluminium entrance Window.

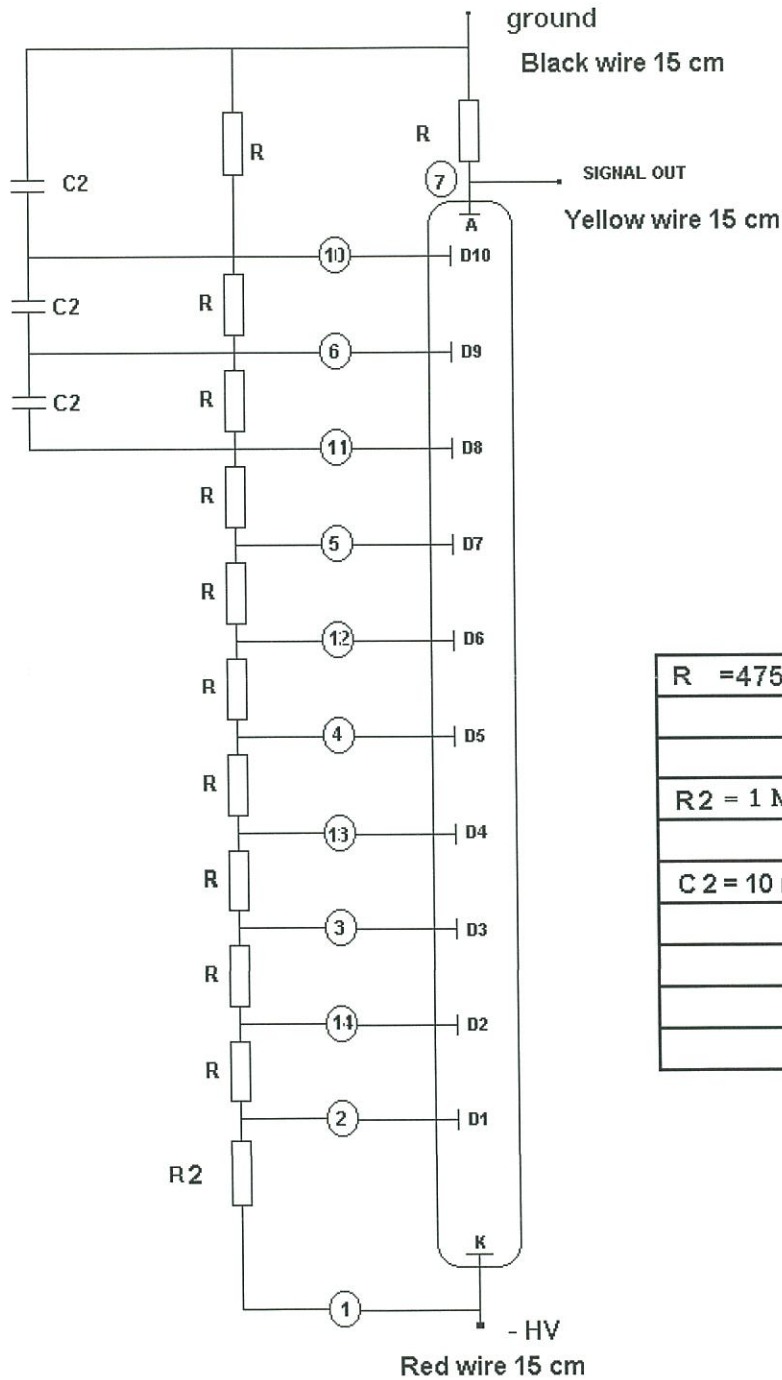
<b>Scintillation crystal</b>	:	YAP:Ce, 25.4 x 25.4 mm.
<b>Photomultiplier tube</b>	:	Ø25.4 mm, type Hamamatsu R1924A
<b>PMT rise time</b>	:	1.5 ns
<b>Drawing number</b>	:	VS-1635
<b>Entrance window</b>	:	0.5 mm aluminium.
<b>Voltage divider</b>	:	6 MΩ,
<b>Connectors</b>	:	-HV                      SHV Anode signal        BNC.
<b>Temperature range</b>	:	- 20 °C to +70 °C.

### Performance

<b>Gain stability</b>	:	< 1.5% over 24 h at 20 °C.
<b>Typical energy resolution</b>	:	< 7.5 % @ 662 keV
<b>Typical high voltage</b>	:	-800 V.
<b>Max. high voltage (cath/anode)</b>	:	-1250 V.



## Voltage Divider Schematic



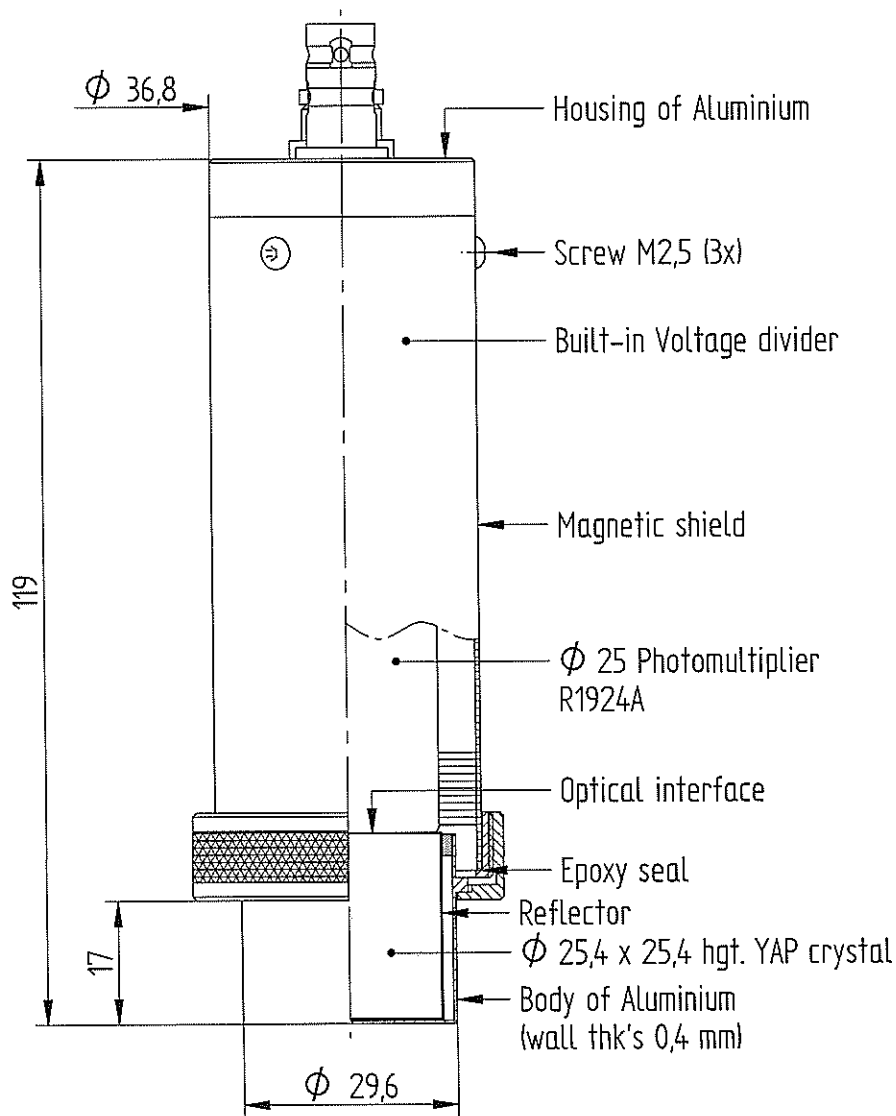
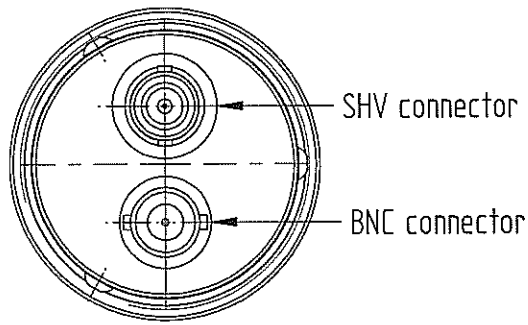
$R = 475 \text{ k}\Omega$
$R2 = 1 \text{ M}\Omega$
$C2 = 10 \text{ nF } 500\text{V}$

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CHECKED: C.V.		DIMENSIONS: MM	REVISION	SPECIFICATION	DATE
SCALE: 1:1	DRAWN: 01-05-2019		R4		
 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			R3		
			R2		
			R1		
			TYPE: 25A25/1M-E1-YAP-X-NEG		
TITLE: ASSEMBLY	DWG. No. VS-1635				A4

