

SI8B

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Geiger-Muller counter of beta-gamma-radiation



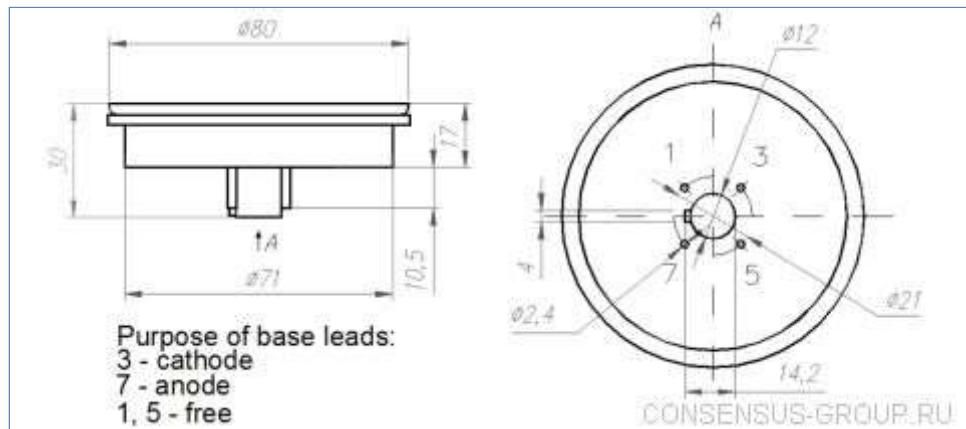
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Main characteristics

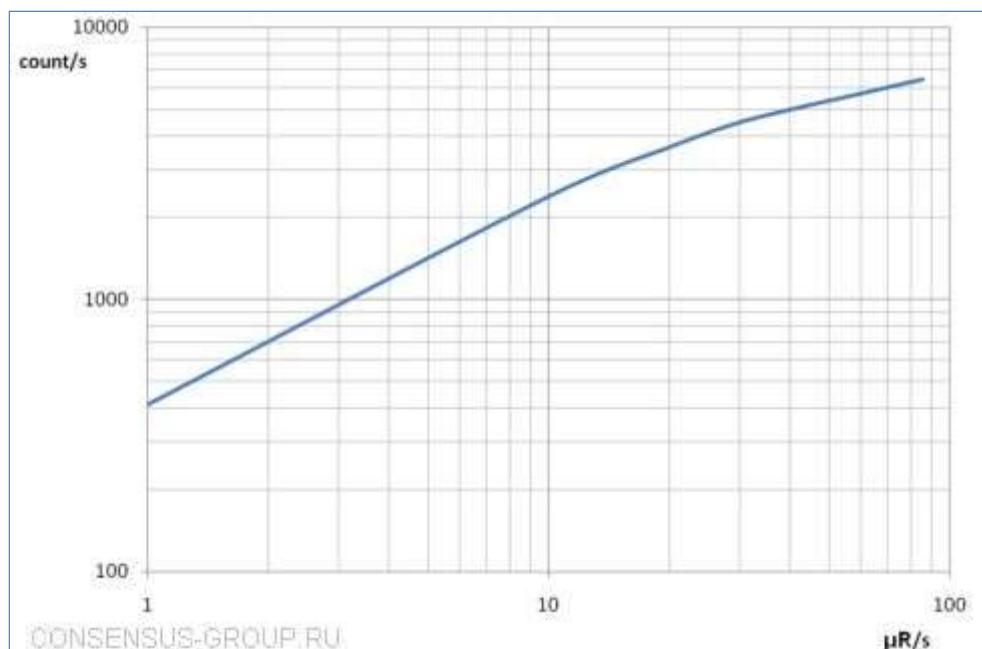
Starting voltage	V	305 max
Working voltage	V	390
Plateau length	V	100
Plateau slope	% / V	0,25 max
Dead time	μs	160
Sensitivity to ^{60}Co with DER 1 $\mu\text{R}/\text{s}$	count / μR	350 \div 500
Sensitivity to ^{137}Cs with DER 3 $\mu\text{R}/\text{s}$	count / μR	250 \div 310
Efficiency to beta radiation	%	50 \div 85
Interelectrode capacitance	pF	13
Own background (in the 50 mm Pb shield)	count / s	2,0 max
Mica window area	cm ²	33
Operating temperature range	°C	-50 \div +60
Life expectancy	count	1×10^{10}
Weight	g	93

Well-known analogues: **beta-gamma-radiation counter SI8BM**

Overall dimensions



Typical count rate as a function of dose rate ${}^{60}\text{Co}$



The scheme of connection

