

2013

Cylindrical bf3 neutron detector

## GENERAL SPECIFICATIONS

|                                      |                 |
|--------------------------------------|-----------------|
| MAXIMUM LENGTH (INCH/MM)             | 5.45/138.43     |
| MAXIMUM DIAMETER (INCH/MM)           | 0.63/16.0       |
| EFFECTIVE LENGTH (INCH/MM)           | 3.5/88.9        |
| CATHODE MATERIAL (INTERNAL/EXTERNAL) | Stainless Steel |
| EFFECTIVE DIAMETER (INCH/MM)         | 0.61/15.49      |
| CONNECTOR                            | Flying Lead     |
| OPERATING TEMPERATURE RANGE °C       | -50 to +100     |
| GAS PRESSURE (TORR)                  | 200             |
| EFFECTIVE VOLUME (CM <sup>3</sup> )  | 16.75           |

## ELECTRICAL SPECIFICATIONS

|                                       |            |
|---------------------------------------|------------|
| RECOMMENDED OPERATING VOLTAGE (VOLTS) | 850        |
| OPERATING VOLTAGE RANGE (VOLTS)       | 750 - 1000 |

|                                     |    |
|-------------------------------------|----|
| MAXIMUM PLATEAU SLOPE (%/100 VOLTS) | 1  |
| TUBE CAPACITANCE (PF)               | 8  |
| WEIGHT (GRAMS)                      | 75 |
| MAXIMUM RESOLUTION (% FWHM)         | 10 |

## THERMAL NEUTRON SENSITIVITY

|                      |     |
|----------------------|-----|
| SENSITIVITY (CPS/NV) | 0.4 |
|----------------------|-----|

