

## **Single photon detector**

### **SPECIFICATIONS:**

1. Fiber coupled single photon detector module with four channels.
2. All the four channel detectors should be compactly enclosed in one enclosure with a common voltage source.
3. Fiber connector FC/PC for single mode fiber at 810 nm.
4. Single photon detection efficiency at 810 nm should be better than 40%.
5. Detector dead time should be less than 55 ns.
6. Dark count rate should be as low as possible and it should not exceed 550 counts/sec.
7. Single photon timing resolution should be better than 0.7 ns.
8. Warranty should be mentioned on the quote.

### **Single channel single photon detector.**

1. Fiber coupled single photon detector module with single channel.
2. Detector should be compactly enclosed in one enclosure.
3. Fiber connector FC/PC, form single mode fiber at 810 nm.
4. Single photon detection efficiency at 810 nm should be better than 40%.
5. Detector dead time should be less than 55 ns.
6. Dark count rate should not exceed 100 counts/sec. Quote all detectors with dark counts rate less than and equal to 100.
7. Single photon timing resolution should be better than 0.4 ns.
8. Warranty should be mentioned on the quote.

### **Quote the compatible optical fibers.**