

Current status of the strip sensors



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PANDA CM
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Sensor deliveries

- Sensors for barrel #3 (= 4 batches = 100 sensors) delivered by CiS and QA checked (2015/16)
- First lots were rejected almost entirely due to problems with wafer material
- First part of barrel #4 delivered in 2018/19 (1 batch=25 sensors)

Sensor QA - Criteria

Complete survey for:

- $V_{bd} > 180V$
- Max 5 pinholes on p side
- No pinholes on n-side

Sample-wise measurements of

- PolySi resistance
- Capacitances: bulk, interstrip, stray, bias-bulk etc.

Sensor QA

Lot Nr.	delivered		accepted		Yield in %	
	S1	S2	S1	S2	S1	S2
341774	18	23	5	11	28	48
341775	23	24	1	2	4	8
341776	22	24	7	11	32	46
342563	23	16	11	13	48	81
341772	23	21	7	16	30	76
341773	11	10	7	4	64	40
352154	1	1	1	1	100	100
352155	24	25	20	20	83	80
352156	24	24	14	14	58	58
352157	23	23	17	16	74	70
381921	23	22	18	20	78	91
381922	10	8	7	5	70	63
Sum	225	221	115	133	51	60

Newly delivered sensors are fine. Problems with wafer material gone.