

Certificate of Conformity

for CERN supplied components

1. Part description	2. CERN Part ID (19 chars)		5. Other identification
	3. Part No. (10 chars)	4. Serial No. (8 chars)	
Cryogenic Temperature Sensor	HCQITESCXT-CR014931		CX_LS_X08951
Cryogenic Temperature Sensor	HCQITESCXT-CR014881		CX_LS_X08956
Cryogenic Temperature Sensor	HCQITESCXT-CR014691		CX_LS_X08961
Cryogenic Temperature Sensor	HCQITESCXT-CR015481		CX_LS_X08779
Cryogenic Temperature Sensor	HCQITESCXT-CR013651		CX_LS_X09332
Cryogenic Temperature Sensor	HCQITESCXT-CR013771		CX_LS_X09334
Cryogenic Temperature Sensor	HCQITESCXT-CR013781		CX_LS_X11693
Cryogenic Temperature Sensor	HCQITESCXT-CR013801		CX_LS_X11789
Cryogenic Temperature Sensor	HCQITESCXT-CR013821		CX_LS_X11792
Cryogenic Temperature Sensor	HCQITESCXT-CR013831		CX_LS_X11798
Cryogenic Temperature Sensor	HCQITESCXT-CR013841		CX_LS_X11804
Cryogenic Temperature Sensor	HCQITESCXT-CR013551		CX_LS_X11807
Cryogenic Temperature Sensor	HCQITESCXT-CR013531		CX_LS_X11810
Cryogenic Temperature Sensor	HCQITESCXT-CR013741		CX_LS_X11815
Cryogenic Temperature Sensor	HCQITESCXT-CR018931		CX_LS_X13726
Cryogenic Temperature Sensor	HCQITESCXT-CR018851		CX_LS_X13727
Cryogenic Temperature Sensor	HCQITESCXT-CR018781		CX_LS_X13728
Cryogenic Temperature Sensor	HCQITESCXT-CR018871		CX_LS_X13729

6. **Recipient contractor:** ANSALDO ENERGIA Spa

7. **Contract / Order No :** F-302/LHC/LHC

8. **Responsible person at CERN:** Nicolas VAUTHIER
Tel. 00 41 22 767 42 66
E-mail. Nicolas.vauthier@cern.ch

9. **Reference specification:** LHC-QIT-AP0002: installation Guide for LHC Cryogenic Thermometer

10. **Reference drawings:**

11. **Part manufactured by:** Lake Shore®/CERN

12. **Acceptance test refs:** See Attached Cryogenic Thermometer Travellers

13. **Acceptance test results:** Conform to Technical Specification

14. **Comments:**

- Delivered quantity: for 18 magnets.
- Cryogenic Thermometer is provided with its cover in a protecting box, wires and temporary WAGO connector are mounted.
- Traveller must be filled and returned to CERN.
- Description's Interventions are reminded in Traveller folder.

CERN certifies that the supplied material is conform to the reference specification.

Date:
17-Sep-2002

Name
N. Vauthier

Signature:



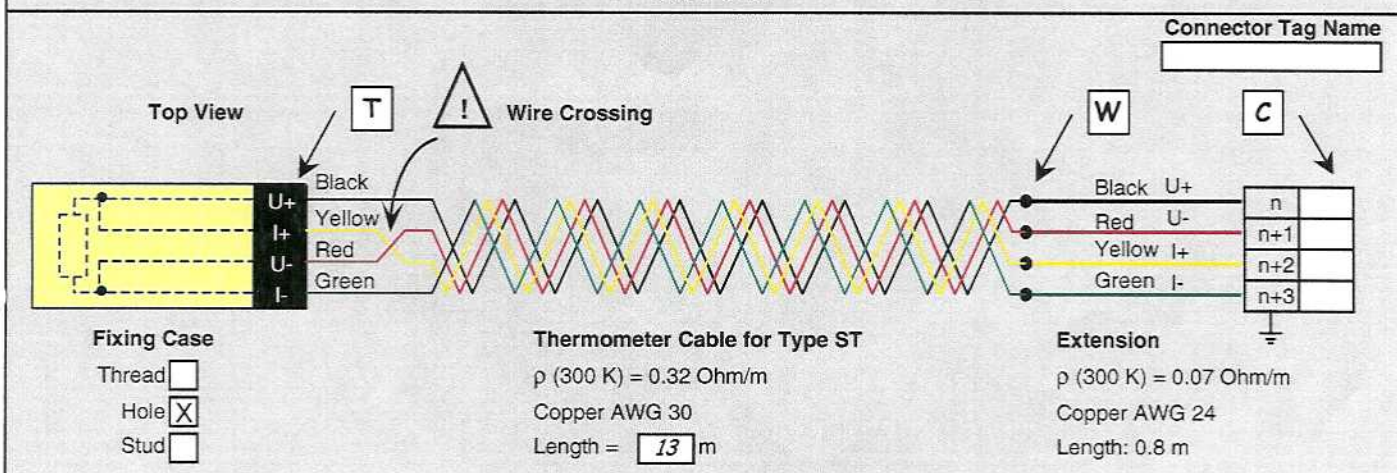
Cryogenic Thermometer Traveller TT821



DESCRIPTION

Part description:	Cryogenic thermometer	Top Assembly Identification:	Magnet
Part Identification:	HCQITESCXT-CR014691	Manufactured By:	ANSALDO ENERGIA Spa
Serial Number:	CX_LS_X08961		

CABLING



CHECKS

Intervention	Date/ DD-MMM-YYYY	Check Point	R(U+,U-,I+,I-) [Ohm] 4W	R(U-,I-) [Ohm] 2W	R(U+,I+) [Ohm] 2W	R(U+,GND) [Ohm] 2W	Temperature [K]	Firm/Laboratory	Checked by
Calibration	05-Mar-2001	T	55.8	0.18	0.18	OVL	300	IPN	Joly
Expedition	11-Sep-2002	W	56.77	8.45	8.53	OVL	293	CERN	Vauthier
Reception	4-12-2002	W	57.14	8.76	8.33		16° C.	Ansaldo	Russo
Control 1		T W C						Ansaldo	
Control 2		T W C						Ansaldo	
Control 3		T W C						Ansaldo	
Control 4		T W C						Ansaldo	
Control 5	4-12-2002	T W C	57.14	3.66	3.63	OVL	16° C.	Ansaldo	Russo
Control 6	06-12-2002	T W C	57.18	3.67	3.68	OVL	18° C.	Ansaldo	RUSSO
Control 7	19-12-02	T W C	57.33	2.71	2.70	OVL	18° C.	Ansaldo	PAVESE
Control 8	29-01-03	T W C	57.53	2.70	2.70	OVL	18° C.	Ansaldo	PAVESE
Expedition		T W C						Ansaldo	
Reception		T W C						Ansaldo	
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