



1. **EC-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. EC-Type Examination Certificate Number: **ITS10ATEX26935X**

4. Equipment or Protective System: **Pressure Controls/Thermostats RT....**

5. Manufacturer: **DANFOSS A/S**

6. Address: **Nordborgvej 81, 6430 Nordborg, Denmark**

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.


The examination and test results are recorded in confidential Intertek Report INT-DK3504 (09 043878) dated 05-10-2010.

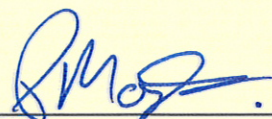
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0: 2009, EN 60079-11: 2007 except in respect of those requirements referred to at item 18 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This EC-Type examination certificate relates only to the design and construction of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-

 II 2 G Ex ia IIC T6 Gb T_{amb}: -20°C to +65°C



P Moss
Certification Officer
7th October 2010

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- 13. SCHEDULE
- 14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS10ATEX26935X
- 15. Description of Equipment or Protective System

The RT-E series consists of pressure and differential pressure switches, in addition to temperature switches. The units are designated for industrial refrigeration and general industrial application within an explosive atmosphere. The units consist of a stainless steel frame and metalized front cover to keep surface resistance below 1 G ohm.

RT-E pressure and temperature switches for use in explosive areas incorporate a SPDT changeover switch where contact position depends on pressure or temperature value of the system.

The following IS parameters are valid for RT...

Ui: 29 V
 li: 0.5 A
 Pi: 1 W
 Ci: 0.5 nF
 Li: 0.2 µH

Pressure Switches

Type	Range [bar]	Differential [bar]	Max. working pressure [bar]	Reset	Code no.	
					Connection type	
					G 3/8A + welded nipple Ø6.5/10mm	G 3/8A
RT 112E	0.1 to 1.1	0.07 to 0.16	7	Auto		017- 518566
RT 113E	0 to 0.3	0.01 to 0.05	0.4	Auto		017- 519566
RT 1AE	-0.8 to 5	0.5 to 1.6	22	Auto	017- 500966	
RT116E	1 to 10	0.3 to 1.3	22	Auto		017- 520166
RT 5E	4 to 17	1.2 to 4	22	Auto		017- 525266
RT6AEW	5 to 25	fixed 3	34*)	Auto	017- 513866	
RT6AEB	10 to 28	fixed 1.5	34*)	Man.	017- 513466	
RT6AES	10 to 28	fixed 1.5	34*)	Man.	017- 502166	
RT117E	10 to 30	1 to 4	42	Auto		017- 529866

*) Max. working pressure acc. to PED is limited to 28 bar

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Differential Pressure Switches

Type	Code no.	Regulating range	Differential	Operating range for LP Bellows	Max. working pressure	Pressure connection
		[bar]	[bar]	[bar]	[bar]	
RT260AE RT262AE	017D003666 017D003066	0.5 to 4 0.1 to 1.5	fixed 0.3 fixed 0.1	-1 to 18 -1 to 9	22 11	G 3/8A + welded nipple Ø6.5/10mm

Temperature switches

Type	Code no.	Range [°C]	Differential		Max. sensor temperature [°C]	Type of charge	Capillary tube length [m]
			lowest range setting [°C]	at highest range setting [°C]			
RT14E	017-509866	-5 to 30	2 to 8	2 to 10	150	B	2
RT101E	017-512666	25 to 90	2.4 to 10	3.5 to 20	300	B	2
RT107E	017-515366	70 to 150	6 to 25	1.8 to 8	215	C	2
RT123E	017-521666	150 to 250	6.5 to 30	1.8 to 9	300	C	2

Types of charge:
B - Adsorption charge
C - Partial charge

16. Report Number:

Intertek Report INT-DK3504 (09 0043878) dated 05-10-2010

17. CONDITIONS OF CERTIFICATION:

(a). Special Conditions for safe use

- For ambient temperatures below -10 °C use suitable field wiring
- Ambient temperatures: -20°C to +65°C
- The Pressure Controls/Thermostats RT.... Has passed the tests for low impact. Precautions when installing this device shall be observed accordingly.

(b). Conditions For Use (Routine Tests)

No routine testing required

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18. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report INT-DK3504 (09 0043878) dated 05-10-2010

19. Drawings and Documents

Number	Title	Issue	ECM/ Doc. ID
017-5827	Cover Metalized	01	500000046314
017-5829	Cover Metalized without window	05	500000046314
017R0768 (3 pages)	Overall dimension of RT5E	03	500000037828
017R0769	Overall dimension of the Pressure Switch RT5E	02	500000040269
017R0770	Pressure Switch RT5E function description	05	500000037828
017R0771	Diagrammatic Sketch of the Pressure Switch RT5E	02	500000040269
017R0772	Pressure Switch RT5E bill of material	04	500000046314
017R0773 (2 pages)	RT5E Pressure Switch	05	500000046314
017-5729	Cover without window	04	500000043548
017R3002	Label Instruction	02	500000046314
520H4415	Data Sheet (Technical Brochure)		DKRCC.PD.CB0. B5.02
017R9518	Instruction Thermostat	01	500000046314
017R9519	Instruction Pressostat	01	500000046314

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