

Danfoss A/S6430 Nordborg
Denmark
CVR nr.: 20 16 57 15Telephone: +45 7488 2222
Fax: +45 7449 0949**MANUFACTURER'S DECLARATION****Danfoss A/S****Refrigeration & Air Conditioning Controls**

declares that **RT pressure, differential pressure, temperature and differential temperature switches** may be used within safety related application according to the below indicated characteristic values:

Configuration No.	1	2	3	4	5	6	7	8
Fail Safe Detected (λ_{SD})	0	0	0	0	0	0	0	0
Fail Safe Undetected (λ_{SD})	195	181	155	195	181	155	171	171
Fail Dangerous Detected (λ_{DD})	0	0	0	0	0	0	0	0
Fail Dangerous Undetected (λ_{DU})	36	50	76	76	90	66	50	80
Total Failure Rate (λ_{Total})	231	231	231	271	271	221	221	251
Safe Failure Fraction (SFF)	84%	78%	67%	71%	66%	70%	84%	68%
SIL AC	SIL 2	SIL 2	SIL 2	SIL 2	SIL 2	SIL 2	SIL 2	SIL 2
Safety metrics acc. to ISO 13849-1								
MTTFd (years)	>100 (High)	>100 (High)	>100 (High)	>100 (High)	>100 (High)	>100 (High)	>100 (High)	>100 (High)
DC (%)	0	0	0	0	0	0	0	0
Category (CAT)	CAT 1	CAT 1	CAT 1	CAT 1	CAT 1	CAT 1	CAT 1	CAT 1
Performance Level (calculated)	3.60E-08 1/h	5.00E-08 1/h	7.60E-08 1/h	7.60E-08 1/h	9.00E-08 1/h	6.60E-08 1/h	5.00E-08 1/h	8.00E-08 1/h

Configuration 1 – Max pressure limiters for increasing pressure with double safe fail bellows, types: RT6AEB, RT6AES, RT6AEW, RT6B, RT6S, RT6W, RT6AB, RT6AS, RT6AW, RT19B, RT19S, RT19W, RT30AB, RT30AS, RT30AW

Configuration 2 – Min pressure limiters for decreasing pressure, types: RT1AE, RT5E, RT6AEW, RT112E, RT113E, RT116E, RT117E, RT121E, RT1, RT1A, RT1AL, RT5, RT5A, RT5AL, RT19W, RT31B, RT31S, RT31W, RT32B, RT32W, RT33B, RT110, RT110L, RT112, RT113, RT116, RT117, RT117I, RT121, RT200, RT200L,

Configuration 3 – High pressure limiter with single bellows, types: RT5, RT5A, RT35W, RT110, RT112, RT112W, RT116, RT200

Configuration 4 – Differential pressure limiters for increasing limit value, types: RT260A, RT262A


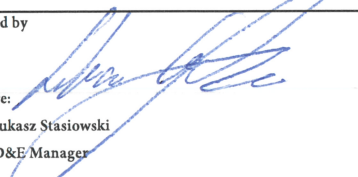
Configuration 5 – Differential pressure limiters for decreasing limit value, types: RT260AE, RT262AE, RT260A, RT262A, RT265A, RT260AL, RT262AL, RT263AL, RT266AL

Configuration 6 – Max temperature limiters, types: RT101, RT107, RT120, RT123, RT124

Configuration 7 – Temperature regulators for decreasing limit value, types: RT9E, RT14E, RT101E, RT107E, RT123E, RT2, RT3, RT4, RT7, RT8, RT9, RT11, RT12, RT13, RT14, RT15, RT17, RT23, RT24, RT26, RT34, RT101, RT102, RT103, RT106, RT107, RT108, RT115, RT120, RT123, RT124, RT140, RT141, RT8L, RT14L, RT16L, RT101L, RT140L

Configuration 8 – Differential temperature regulators for decreasing limit value, types: RT270, RT271

On the basis of EXIDA report No.: Danfoss 15/06-136 R006 V1R1

Date: 2020.11.24 Place of issue: Grodzisk Maz.	Issued by  Signature: Name: Piotr Chylaszek Title: Sr. Spec. Projects & Approvals	Date: 2020.11.24 Place of issue: Grodzisk Maz.	Approved by  Signature: Name: Łukasz Stasiowski Title: RD&E Manager
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