

**Danfoss A/S**DK-6430 Nordborg  
Danmark  
CVR nr.: 20 16 57 15Telefon: +45 7488 2222  
Fax: +45 7449 0949**MANUFACTURER'S DECLARATION****Danfoss A/S**  
Automatic 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:

<b>Configuration No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
Fail Safe Detected ( $\lambda_{SD}$ )	0	0	0	0	0	0	0	0
Fail Safe Undetected ( $\lambda_{SD}$ )	195	181	155	195	181	155	171	171
Fail Dangerous Detected ( $\lambda_{DD}$ )	0	0	0	0	0	0	0	0
Fail Dangerous Undetected ( $\lambda_{DU}$ )	36	50	76	76	90	66	50	80
<b>Total Failure Rate (<math>\lambda_{Total}</math>)</b>	<b>231</b>	<b>231</b>	<b>231</b>	<b>271</b>	<b>271</b>	<b>221</b>	<b>221</b>	<b>251</b>
Safe Failure Fraction (SFF)	84%	78%	67%	71%	66%	70%	84%	68%
<b>SIL AC</b>	<b>SIL 2</b>	<b>SIL 2</b>	<b>SIL 2</b>	<b>SIL 2</b>	<b>SIL 2</b>	<b>SIL 2</b>	<b>SIL 2</b>	<b>SIL 2</b>
<b>Safety metrics acc. to ISO 13849-1</b>								
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, RT1, RT1A, RT1AL, RT5, RT5A, RT5AL, RT19W, RT31B, RT31S, RT31W, RT32B, RT32W, RT33B, RT110, RT110L RT112, RT113, RT116, RT117, RT117L, 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:** 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 pressure regulators for decreasing limit value, types:** RT270, RT271

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

Date 2015.11.30	Issued by  Piotr Chylaszek Engineering Manager	Date 2015.11.30	Approved by  Slawomir Kozubowski RD & E Manager
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