

## DECLARATION OF CONFORMITY MANUFACTURER DECLARATION

As manufacturer

**PR electronics A/S**  
**Lerbakken 10**  
**DK-8410 Rønde**

hereby declares that the following product:

Type: 5437  
Product Version: 5437xxSx

is suitable for the use in systems up to Performance Level “d” according to ISO-13849, if the appropriate instructions are observed.


The reliability data summarized in the following table are the result of a SIL assessment according to IEC-61508 carried out on the 5437. The SIL assessment consists of an FMEDA done by Exida (report FMEDA\_PR\_5437\_6437\_V2R1.pdf), updated with calculations of reliability data according to ISO-13849.

	<b>Description:</b>	<b>PFHd: [1/h]</b>	<b>Resulting PL:</b>	<b>MTTFd: [ years]</b>
Dual RTD	Dual RTD Input	5,07E-07	d	225
Dual TC, Int CJC	Dual TC input, Internal CJC	5,09E-07	d	224
Dual TC, Ext CJC	Dual TC input, external CJC	5,06E-07	d	225
Dual TC, Int CJC, SensDrift	Dual TC input, Internal CJC with sensor drift detection enabled	5,09E-07	d	224
Single TC, Int CJC	Single TC input, Internal CJC	4,71E-07	d	242

The calculated values are valid only within the useful lifetime.

Please refer to [www.preelectronics.com](http://www.preelectronics.com) for functional safety certificate, FMEDA report and safety manual.

Roende, 08 December 2021

  
Stig Lindemann, CTO  
Manufacturer's signature