

DECLARATION OF CONFORMITY MANUFACTURER DECLARATION

As manufacturer

PR electronics A/S
Lerbakken 10
DK-8410 Rønde

hereby declares that the following product:

Type: 6437
Product Version: 6437xxSx

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 6437. 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.

	Description:	PFHd: [1/h]	Resulting PL:	MTTFd: [years]
Dual RTD	Dual RTD Input	5,07E-07	d	225
Dual TC, Int CJC	Dual TC input, Internal CJC	5,20E-07	d	220
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	5,19E-07	d	220
Single TC, Int CJC	Single TC input, Internal CJC	4,81E-07	d	237

The calculated values are valid only within the useful lifetime.

Please refer to www.preelectronics.com for functional safety certificate, FMEDA report and safety manual.

Roende, 08 December 2021


Stig Lindemann, CTO
Manufacturer's signature