

DECLARATION OF CONFORMITY MANUFACTURER DECLARATION

As manufacturer

PR electronics A/S
Lerbakken 10
DK-8410 Rønde

hereby declares that the following products:

Type: 4114/4116
From serial no.: 060094001

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 hardware assessment according to IEC-61508 carried out on the 4114/4116. The hardware assessment consists of an FMEDA done by Exida (report PR4116 V2R4), updated with calculations of reliability data according to ISO-13849.

	Description:	PFHd: [1/h]	Resulting PL:	MTTFd: [years]
4114/4116	Any Input, Current Output	7.25E-7	d	158
4114/4116	Any Input, Relay Output	1.71E-07	d	667

The calculated values are valid only within the useful lifetime.

For the Current Outputs, the useful lifetime is 20 years.

For the Relay Outputs, the useful lifetime is the shortest of 20 years and the time when the maximum limit of 100,000 switching cycles of the relay is exceeded.

Roende, 24 May 2023



Stig Lindemann, CTO
Manufacturer's signature