

# IEC60730B DSC 4.0

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## 1 Introduction

IEC60730B\_DSC\_4\_0 is the actual version of the core self-test library for NXP devices with the 56800EX core. The library is certified by VDE. It is dedicated for use in applications compliant with the Safety class B standard (specified by IEC 60730, IEC60335 and/or UL 60730, and UL 1998).

The library is released in a precompiled format, together with functional example projects and documentation describing the respective tests.

The library is created in close cooperation with the application team, who have vast experience in customer projects. We also take the feedback from our customers into consideration.

## 2 What is new

This version refers to the IEC60730B Safety Routines DSC v1.0 library and follows the structure and philosophy of the unified 4.0 version of the new safety libraries.

When compared to the previous version, the main changes are:

- New tests:
  - Digital I/O
  - Analog I/O
  - Stack
- Changed the API of the test routines

### 2.1 Description

**The supported devices are:**

- 56F83xxx

**The supported/recommended IDEs:**

- Code Warrior 11.1

**The tested components are:**

- CPU registers
- Program counter
- Variable memory (RAM)
- Invariable memory (flash)
- Clock
- Digital I/O
- Analog I/O

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- Stack
- Watchdog

### **3 Optimizations, improvements and changes:**

#### **3.1 Documentation**

The documents for all test routines are merged into one document.

#### **3.2 Examples**

The example projects are available only at [nxp.com/iec60730](http://nxp.com/iec60730) in the "Download" section

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