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Abstract Preview. ISO 13849-1:2015 provides safety requirements and guidance on the principles for the design and integration of safety-related parts of control systems (SRP/CS), including the design of software. For these parts of SRP/CS, it specifies characteristics that include the performance level required for carrying out safety functions. It

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applies to SRP/CS for high demand and continuous mode, regardless of the type of technology and energy used (electrical, hydraulic, pneumatic, ...

## **ISO - ISO 13849-1:2015 - Safety of machinery — Safety ...**

This part of ISO 13849 provides safety requirements and guidance on the

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principles for the design and integration of safety-related parts of control systems (SRP/CS), including the design of software. For these parts of SRP/CS, it specifies characteristics that include the performance level required for carrying out safety functions.

**ISO  
13849-1:2015(en),  
Safety of machinery**

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## **? Safety-related ...**

ISO 13849-1:2015(E)

Parts of machinery control systems that are assigned to provide safety functions are called safety-related parts of control systems (SRP/CS) and these can consist of hardware and software and can either be separate from the machine control system or an integral part of it.



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**INTERNATIONAL ISO**  
**This is a preview of**  
**ISO 13849-1:2015 ...**

BS EN ISO

13849-1:2015 is intended to give guidance to those involved in the design and assessment of control systems, and to Technical Committees preparing type-B2 or type-C standards which are presumed to comply with the Essential Safety Requirements of Annex

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## **BS EN ISO 13849-1:2015 pdf download - Free Standards Download**

ISO 13849 - 1:2015  
provides a graphical  
means for selecting the  
minimum Performance  
Level (PL) required for  
the safety function  
based on the risk  
assessment.

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**ISO 13849-1**  
**Analysis — Part 1:**  
**Start with Risk**  
**Assessment**

EN ISO 13849-1:  
Performance Level (PL)  
The greater the risk,  
the higher the  
requirements of the  
control systems. The  
hazardous situation is  
classified into five  
levels, known as  
Performance Levels  
(PL), from PL "a" (low)  
to PL "e" (high). The  
required PL is

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determined and assigned as part of the risk assessment in accordance EN ISO 13849-1.

## **EN ISO 13849-1 - Classify hazards in Performance Levels**

...

EN ISO 13849-1:provides safety requirements and guidance on the principles for the design and integration of safety-related parts

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of control systems including the design of software. For safety-related parts of control systems, it specifies characteristics that include the performance level required for carrying out safety functions.

## **Safety control system standard EN ISO 13849-1**

ISO 13849-1 is relevant for the SRP/CS safety functions that are used

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to address risks for cases where a risk assessment conducted according to ISO 12100 has initiated a risk reduction measure (e.g. interlocking guard) that relies on a safety-related control system. In those cases, the safety-related control system has to perform a safety function.

**ISO/DIS 13849-1(en),  
Safety of machinery**

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## **? Safety-related ...**

EN ISO 13849-1 is the most important standard for regulating the basic principles and performance required of a safety control system for machines and devices. This standard was greatly revised in November 2006. This revision has caused major changes in the fundamentals of safety system design.

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**EN ISO 13849-1 and  
Safety Performance  
Levels**

This standard has been revised by ISO 13849-1:2015 Abstract ISO 13849-1:2006 provides safety requirements and guidance on the principles for the design and integration of safety-related parts of control systems (SRP/CS), including the design of software.



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**ISO - ISO  
13849-1:2006 -  
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SAFETY OF MACHINERY  
- SAFETY-RELATED  
PARTS OF CONTROL  
SYSTEMS - PART 1:  
GENERAL PRINCIPLES  
FOR DESIGN (ISO  
13849-1:2015)

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“ISO 13849-1:2015 provides safety requirements and guidance on the principles for the design and integration of safety-related parts of control systems (SRP/CS), including the design of software. For these parts of SRP/CS, it specifies

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characteristics that include the performance level required for carrying out safety functions.

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bridges

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ANSI/RIA R15.06 and  
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ISO 13849 - Safety of Machinery and Industrial Robots Package. IEC 60204-1 / ISO 13849-1 / ISO 12100 - Safety and Risk Assessment of Machinery Package. IEC 60204-1 / ISO 13849-1 / ISO 13849-2 - Safety of Electrical Control Systems Package.

**ISO 13849-1:2015 -  
Safety of machinery  
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The ISO 13849 - Safety of Machinery Package provides the safety requirements and guidance on the design and integration of safety related parts of control systems.

## **ISO 13849 - Safety of Machinery Package**

13.110 Safety of machinery This part of ISO 13849 provides safety requirements and guidance on the

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principles for the design and integration of safety-related parts of control systems (SRP/CS), including the design of software.

## **BS EN ISO 13849-1:2015 Safety of machinery. Safety- related ...**

ANSI/ISO 12100 / ISO  
13849-1 / ISO 13849-2  
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Package provides the  
safety requirements  
and risk assessment

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for safety related parts  
of machinery control  
systems.

## **ANSI/ISO 12100 / ISO 13849-1 / ISO 13849-2 - Safety of**

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design of software. For these parts of SRP/CS, it specifies characteristics that include the performance level required for carrying out safety functions.

## **EVS-EN ISO 13849-1:2015 - Estonian Centre for Standardisation**

BS EN ISO

13849-1:2015 is a type-B1 standard and provides safety

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