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Well-tried components

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Well-tried component

EN ISO 13849-1:2015

- “Well-tried component” är inte definierat, endast beskrivet i kravtexten.
- Referens till EN ISO 13849-2, där information finns om vilka komponenter och under vilka förutsättningar de kan antas vara en “well-tried component”.

6.2.4 Category 1

…

SRP/CS of category 1 shall be designed and constructed using well-tried components and well-tried safety principles (see ISO 13849-2).

A “well-tried component” for a safety-related application is a component which has been either

a) widely used in the past with successful results in similar applications, or

b) made and verified using principles which demonstrate its suitability and reliability for safety-related applications.

Newly developed components and safety principles may be considered as equivalent to “well-tried” if they fulfil the conditions of b).

The decision to accept a particular component as being “well-tried” depends on the application.

NOTE 1 Complex electronic components (e.g. PLC, microprocessor, application-specific integrated circuit) cannot be considered as equivalent to “well tried”.

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Well-tried component

ISO/DIS 13849-1:2020

3.1.47
well-tried component
component proven to be successfully used in previous safety-related applications

6.1.11 Well-tried component
A well-tried component for safety-related applications is a component, which shall be either

a) widely used in the past with documented successful results in similar applications e.g. as given as well-tried components in the informative annexes of ISO 13849-2, or

b) made and verified using principles which demonstrate its suitability and reliability for safety-related applications.

The decision to accept a particular component as being “well-tried” depends on the application, e.g. owing to the environmental influences.

Complex electronic components (e.g. PLC, microprocessor, application-specific integrated circuit) shall not be considered as equivalent to “well-tried”.

Well-tried component

Exempel, EN ISO 13849-2:2012

Table D.3 *(continued)*

Well-tried component	Additional conditions for "well-tried"	Standard or specification
Main contactor	Only well-tried if a) other influences are taken into account, e.g. vibration, b) failure is avoided by appropriate methods, e.g. overdimensioning (see Table D.2), c) the current to the load is limited by the thermal protection device, and d) the circuits are protected by a protection device against overload. NOTE Fault exclusion is not possible.	IEC 60947-4-1

Well-tried component

Exempel, EN ISO 13849-2:2012

Well-tried component	Additional conditions for "well-tried"	Standard or specification
Switch with positive mode actuation (direct opening action), e.g.: — push-button; — position switch; — cam-operated selector switch, e.g. for mode of operation	—	IEC 60947-5-1:2003, Annex K
Emergency stop device	—	ISO 13850 IEC 60947-5-5
Fuse	—	IEC 60269-1
Circuit-breaker	—	IEC 60947-2
Switches, disconnectors	—	IEC 60947-3
Differential circuit-breaker/RCD (residual current device)	—	IEC 60947-2:2006, Annex B

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