

**Guideline**

**5/8**

**CLAP**

**FORM N°285**

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**Directive references:** Annex I § 2.11.1 - 97/23 EC

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**Subject:** ESR in design – Self-diagnosis of safety accessories

**Question:**

In the 3rd paragraph of the essential safety requirement 2.11.1, there is the sentence “These principles include, in particular, fail-safe modes, redundancy, diversity and self-diagnosis.”, therefore do all safety accessories require being for example “self-diagnosis”?

**Answer:**

No.

The sentence lists a number of separate possible design principles that could be used to obtain suitable and reliable protection; it is not an exhaustive list. “Self-diagnosis” is for example part of the list of separate possible design principles, not an additional requirement. The design principle to be used for any particular application should be based on the hazard analysis and could indicate that other methods are just as suitable or that more than one design principle should be used.

Modifications compared to the previous adopted version: copy of guideline 5/8 (06/03/2012).