

DIN EN 1037:2008-11 (E)

Safety of machinery - Prevention of unexpected start-up (includes Amendment A1:2008)

Contents	Page
Foreword	3
Introduction	4
1 Scope	4
2 Normative references	4
3 Definitions	5
4 General	6
4.1 Isolation and energy dissipation	6
4.2 Other means to prevent unexpected [unintended] start-up	6
5 Devices for isolation and energy dissipation	6
5.1 Devices for isolation from power supplies	6
5.2 Locking [securing] devices	7
5.3 Devices for stored energy dissipation or restraint [containment]	7
5.4 Verification	8
6 Measures - other than isolation and energy dissipation - intended to prevent unexpected start-up	9
6.1 Design strategy	9
6.2 Measures intended to prevent accidental generation of start commands	9
6.3 Measures intended to prevent accidental start commands resulting in an unexpected start-up	10
6.4 Automatic monitoring of the category 2 stopped condition	13
Annex A (informative) Examples of tasks which can require the presence of persons in danger zones	14
Annex B (informative) Signalling, warning	15
Annex ZA (informative) !Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC	16
Annex ZB (informative) !Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	17
Bibliography	18