





DIN EN 12198-1 :2008-11 (E)

Safety of machinery_ - Assessment and reduction of risks arising from radiation emitted by machinery_ - Part_1: General principles (includes Amendment A1:2008)

Contents

	Page
Foreword.....	3
1 Scope	5
2 Normative references	5
3 Definitions	6
4 Classification of radiation emissions	6
4.1 Classification of radiation by frequency and wavelength	6
4.2 Characteristics of radiation emissions	7
5 General procedure	7
6 Risk assessment.....	8
6.1 General.....	8
6.2 Procedure for the risk assessment.....	8
7 Requirements	9
7.1 Classification of machines due to radiation emission levels	9
7.2 Design requirements	10
8 Protective measures for the elimination or reduction of the risks due to radiation emission	10
8.1 Principles	10
8.2 Choice of the appropriate measures	11
8.3 Protective measures against secondary hazards	11
9 Verification of compliance with requirements.....	11
10 Information for use and maintenance.....	12
10.1 Information for use	12
10.2 Information for maintenance	12
11 Marking	13
12 Signals and warning devices.....	15
Annex A (normative) Stages in the "life" of a machine.....	16
Annex B (normative) Correlation between the level of radiation emission and the radiation emission category	17
Annex C (informative) Examples of measures for the elimination or reduction of exposure to radiation	25
Annex ZA (informative)  Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC 	27
Annex ZB (informative)  Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC 	28