

DIN EN ISO 18497-1:2025-04 (E)

Agricultural machinery and tractors - Safety of partially automated, semi-autonomous and autonomous machinery - Part 1: Machine design principles and vocabulary (ISO 18497-1:2024)

Contents	Page
European foreword	3
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered	4
Foreword	11
Introduction	12
1 Scope	14
2 Normative references	14
3 Terms and definitions	15
4 Safety requirements and protective or risk reduction measures	21
4.1 General.....	21
4.2 Design principles.....	21
4.2.1 General.....	21
4.2.2 Operator presence.....	21
4.2.3 Start-up.....	22
4.2.4 States, modes and actions.....	22
4.2.5 Visual indication.....	23
4.2.6 Audible indication.....	23
4.2.7 Obstacle protective system.....	24
4.2.8 Operating zone (semi-autonomous and autonomous).....	24
4.2.9 Monitoring.....	24
4.2.10 Faults and failures.....	25
4.3 Visual and audible alarms.....	26
4.3.1 General.....	26
4.3.2 Visual alarm (semi-autonomous and autonomous).....	26
4.3.3 Audible alarm (semi-autonomous and autonomous).....	28
4.4 Labelling and identification.....	28
4.5 Information for use.....	28
Bibliography	30