ISO 20223:2026-07 (E)

Technical product documentation (TPD) - Representation and identification of situation features

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Elements for the representation and identification of situation features 2

5 Graphical symbols for the representation of situation features 2
5.1 Single situation feature and minimum set of a single situation feature 2
5.2 Minimum set of a pair of situation features 3
5.3 Complete minimum set of situation features 4
5.4 Recommendation of representation 5
5.5 Representation of the positive direction of situation features of types [PL] or [SL] 5
5.5.1 Positive direction of a situation feature 5
5.5.2 Direct representation of the positive direction of a situation feature 5
5.5.3 Indirect representation of the positive direction of situation features by a Cartesian coordinate system 7

6 Situation feature identification 8
6.1 Graphical symbol for the identification of situation features 8
6.2 Situation feature identifier 9
6.3 Identification of the situation features of a single integral surface 10
6.3.1 Identifier arrangement 10
6.3.2 Examples of identification of single situation features 10
6.3.3 Examples of identification of minimum sets of at least two situation features 11
6.3.4 Situation features of a single datum feature 13
6.3.5 Situation features of a surface of invariance class helical 14
6.4 Identification of the situation features of a collection of integral surfaces 15
6.4.1 Identifier arrangement 15
6.4.2 Examples 15
6.4.3 Situation features of a collection of datum features 16
6.5 Identification of the situation features of a member of a pattern of integral surfaces 18
6.5.1 Identifier arrangement 18
6.5.2 Example 18
6.6 Identification of multiple sets of situation features 19
6.6.1 Identification of multiple minimum sets of situation features 19
6.6.2 Identification of sets of situation features that do not constitute a minimum set of situation features 20
6.7 Identification of coordinate systems established on a complete minimum set of situation features 22

Annex A (normative) Cases where a situation feature is implicitly represented 23

Annex B (normative) Representation of intrinsic mobilities 25

Annex C (normative) Proportions and dimensions of the graphical symbols 32

Bibliography 38