ISO 10303-508:2001-04 (E)

Industrial automation systems and integration - Product data representation and exchange - Part 5 08: Application interpreted construct: Non-manifold surface

Contents

Page

1 Scope 1

2 Normative references 2

3 Terms, definitions, and abbreviations 3
3.5 Other terms and definitions 5
3.6 Abbreviations 5

4 EXPRESS short listing 5
4.1 Fundamental concepts and assumptions 7
4.2 aic_non_manifold_surface schema entity definition: non_manifold_surface_shape_representation 7
4.3 aic_non_manifold_surface function definitions 14
4.3.1 nmsf_curve_check 14
4.3.2 nmsf_surface_check 19

Annex A (normative) Short names of entities 23

Annex B (normative) Information object registration 24

B.1 Document identification 24
B.2 Schema identification 24

Annex C (informative) EXPRESS-G diagrams 25

Annex D (informative) Computer interpretable listings 49

Index 50

Figures Figure C.1 EXPRESS-G diagram 1 of 22 27

Figure C.2 EXPRESS-G diagram 2 of 22 28

Figure C.3 EXPRESS-G diagram 3 of 22 29

Figure C.4 EXPRESS-G diagram 4 of 22 30

Figure C.5 EXPRESS-G diagram 5 of 22 31

Figure C.6 EXPRESS-G diagram 6 of 22 32

Figure C.7 EXPRESS-G diagram 7 of 22 33

Figure C.8 EXPRESS-G diagram 8 of 22 34

Figure C.9 EXPRESS-G diagram 9 of 22 35

Figure C.10 EXPRESS-G diagram 10 of 22 36

Figure C.11 EXPRESS-G diagram 11 of 22 37

Figure C.12 EXPRESS-G diagram 12 of 22 38

Figure C.13 EXPRESS-G diagram 13 of 22 39

Figure C.14 EXPRESS-G diagram 14 of 22 40

Figure C.15 EXPRESS-G diagram 15 of 22 41

Figure C.16 EXPRESS-G diagram 16 of 22 42

Figure C.17 EXPRESS-G diagram 17 of 22 43

Figure C.18 EXPRESS-G diagram 18 of 22 44

Figure C.19 EXPRESS-G diagram 19 of 22 45

Figure C.20 EXPRESS-G diagram 20 of 22 46

Figure C.21 EXPRESS-G diagram 21 of 22 47

Figure C.22 EXPRESS-G diagram 22 of 22 48

Tables Table A.1 Short names of entities 23