

ISO 10303-509:2001-04 (E)

Industrial automation systems and integration - Product data representation and exchange - Part 509: Application interpreted construct: 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_manifold_surface schema entity definition: manifold_surface_shape_representation	
	7 4.3 aic_manifold_surface function definitions	14
4.3.1	msf_curve_check	14
4.3.2	msf_surface_check	18
Annex A (normative) Short names of entities		22
Annex B (normative) Information object registration		23
B.1	Document identification	23
B.2	Schema identification	23
Annex C (informative) EXPRESS-G diagrams		24
Annex D (informative) Computer interpretable listings		47
Index		48
Figures	Figure C.1 EXPRESS-G diagram 1 of 22	25
	Figure C.2 EXPRESS-G diagram 2 of 22	26
	Figure C.3 EXPRESS-G diagram 3 of 22	27
	Figure C.4 EXPRESS-G diagram 4 of 22	28
	Figure C.5 EXPRESS-G diagram 5 of 22	29
	Figure C.6 EXPRESS-G diagram 6 of 22	30
	Figure C.7 EXPRESS-G diagram 7 of 22	31
	Figure C.8 EXPRESS-G diagram 8 of 22	32
	Figure C.9 EXPRESS-G diagram 9 of 22	33
	Figure C.10 EXPRESS-G diagram 10 of 22	34
	Figure C.11 EXPRESS-G diagram 11 of 22	35
	Figure C.12 EXPRESS-G diagram 12 of 22	36

Figure C.13 EXPRESS-G diagram 13 of 22	37
Figure C.14 EXPRESS-G diagram 14 of 22	38
Figure C.15 EXPRESS-G diagram 15 of 22	39
Figure C.16 EXPRESS-G diagram 16 of 22	40
Figure C.17 EXPRESS-G diagram 17 of 22	41
Figure C.18 EXPRESS-G diagram 18 of 22	42
Figure C.19 EXPRESS-G diagram 19 of 22	43
Figure C.20 EXPRESS-G diagram 20 of 22	44
Figure C.21 EXPRESS-G diagram 21 of 22	45
Figure C.22 EXPRESS-G diagram 22 of 22	46
Tables Table A.1 Short names of entities	22