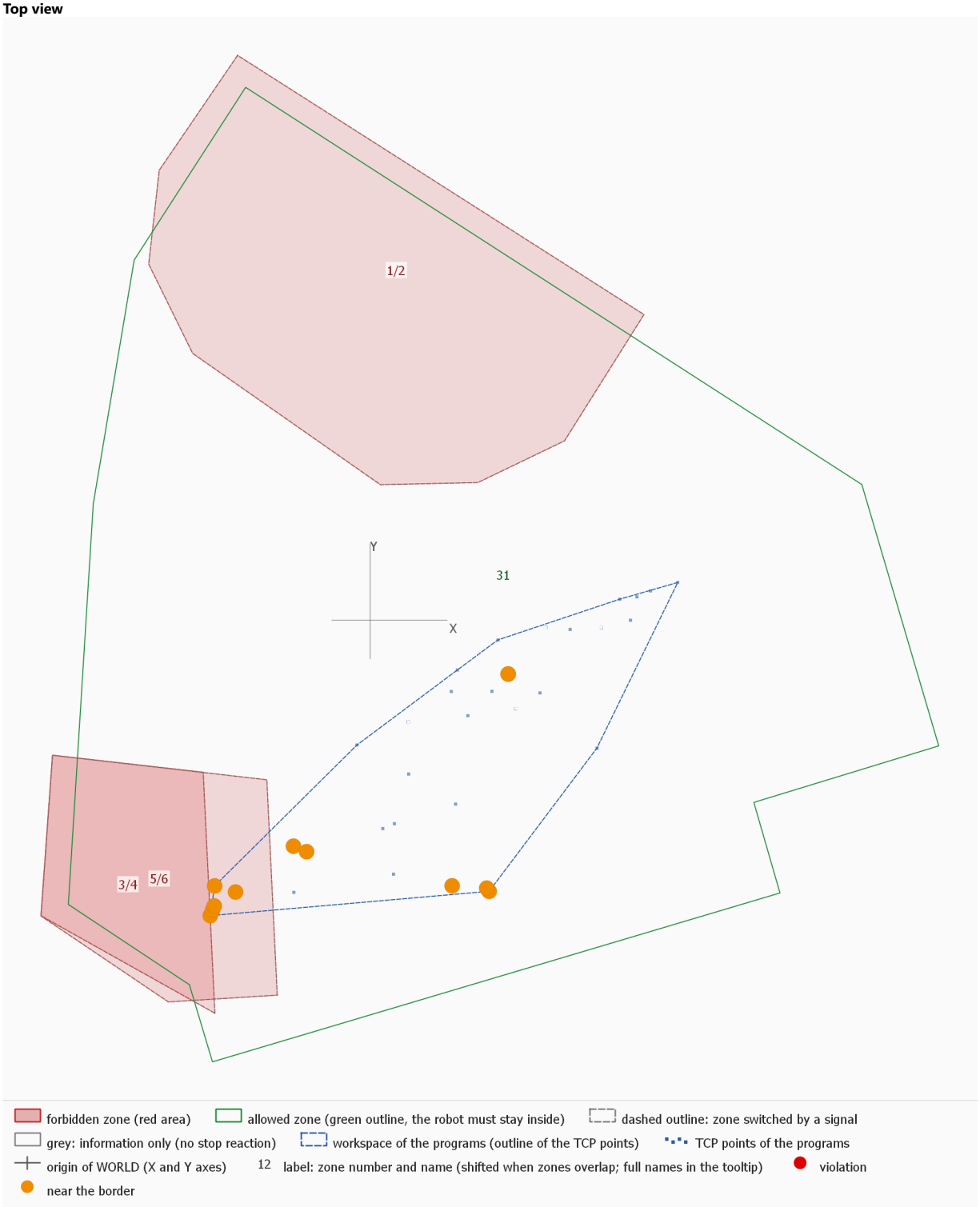
Robot Safety View - R1

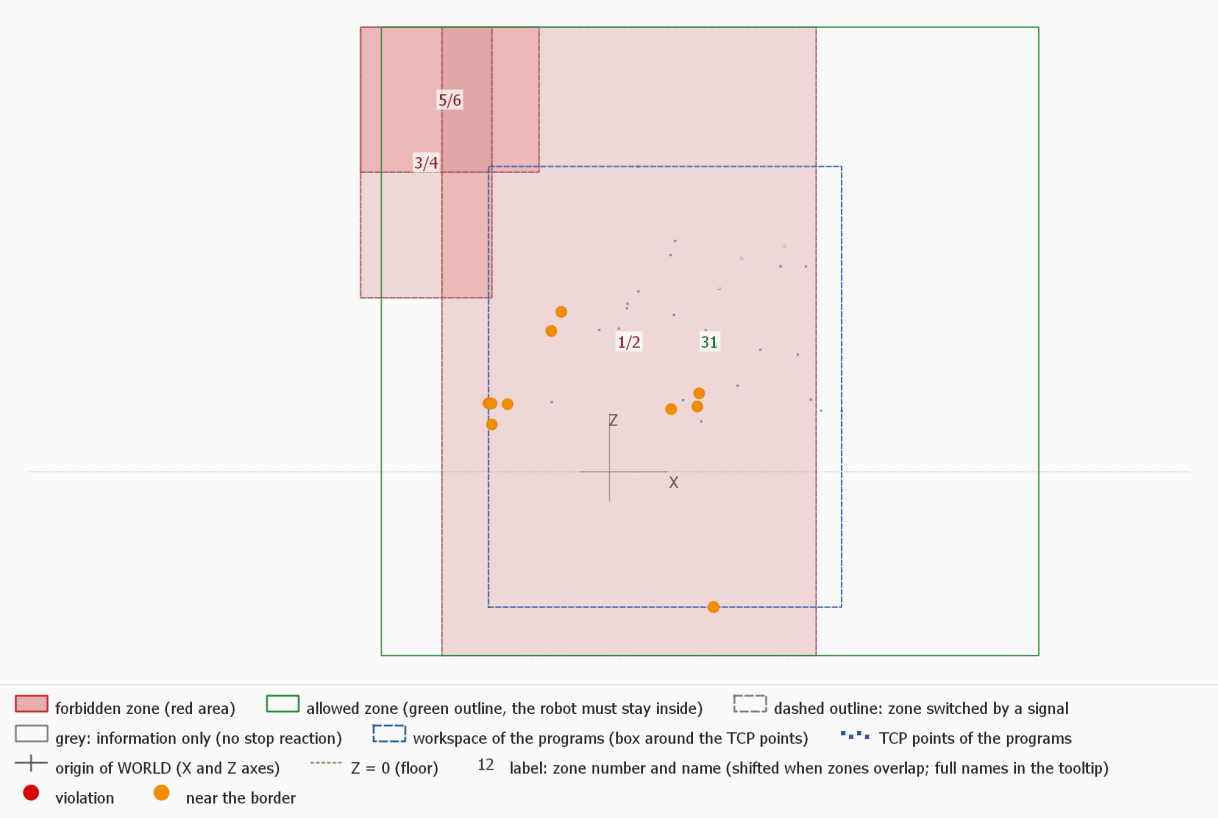
This is a warning, not a safety certification. The test uses the TCP of the taught points and the straight lines of linear motions with a tool radius margin. The robot arm, the tool geometry, braking distances, signal dependent activation of the zones and the real cell are not evaluated. The result does not replace the validation of the safety configuration (acceptance protocol). The safety files of the controller are only read.

2026-10-31 16:02

Top view



Side view



Summary

Item	Value
Robot	R1
Controller	ABB
Zones	7
Programs	3
Motions	198
Points evaluated	50
Points not evaluated	148
Workspace X [mm]	-1250 .. 2402
Workspace Y [mm]	-2308 .. 295
Workspace Z [mm]	-1398 .. 3159
Near border [mm]	1000
Tool radius [mm]	0
Violations	0
Near the border	12
Note	ABB SafeMove: tool geometry and upper arm capsules are shown in the data only - the test uses the TCP with the tool radius margin
Note	ABB: positions are evaluated only for targets in wobj0 (robot base) and moved to WORLD with the Baseframe of the safety configuration
Note	point not evaluated: jt_R1_Home1 is not declared in this module or its value is not a literal
Note	point not evaluated: jt_R1_Home2 is not declared in this module or its value is not a literal
Note	point not evaluated: jt_R1_Home4 is not declared in this module or its value is not a literal
Note	point not evaluated: pal_p_LastPart4 is not declared in this module or its value is not a literal
Note	point not evaluated: work object pal_wobj_Palette001 (only wobj0 is evaluated)

Note	point not evaluated: work object pal_wobj_Palette002 (only wobj0 is evaluated)
Note	point not evaluated: work object pal_wobj_Palette003 (only wobj0 is evaluated)
Note	point not evaluated: work object pal_wobj_Palette004 (only wobj0 is evaluated)
Note	point not evaluated: work object wobj_020FX001 (only wobj0 is evaluated)
Note	point not evaluated: work object wobj_020TD001 (only wobj0 is evaluated)
Note	point not evaluated: work object wobj_020td001 (only wobj0 is evaluated)
Note	point not evaluated: work object wobj_Grp_FZ0_G20 (only wobj0 is evaluated)
Warning	This is a warning, not a safety certification. The test uses the TCP of the taught points and the straight lines of linear motions with a tool radius margin. The robot arm, the tool geometry, braking distances, signal dependent activation of the zones and the real cell are not evaluated. The result does not replace the validation of the safety configuration (acceptance protocol). The safety files of the controller are only read.

Zones

No.	Name	Type	Shape	Z min [mm]	Z max [mm]	Frame	Activation	Stop	Models	Min margin [mm]	Violations	Near	Status
1	Zone 1	forbidden	polygon	-1900	4600	WORLD	input fdi_Rel_Zone_01	Category1Stop	tool + robot (includeRobot)	1239	0	0	evaluated
2	Zone 2	forbidden	polygon	-1900	4600	WORLD	Permanent	NoStop	tool + robot (includeRobot)				information only
3	Zone 3	forbidden	polygon	1800	4600	WORLD	input fdi_Rel_Zone_02	Category1Stop	tool + robot (includeRobot)	758	0	2	evaluated
4	Zone 4	forbidden	polygon	1800	4600	WORLD	Permanent	NoStop	tool + robot (includeRobot)				information only
5	Zone 5	forbidden	polygon	3100	4600	WORLD	input fdi_Rel_Zone_03	Category1Stop	tool + robot (includeRobot)	1194	0	0	evaluated
6	Zone 6	forbidden	polygon	3100	4600	WORLD	Permanent	NoStop	tool + robot (includeRobot)				information only
31	Zone 31	allowed	polygon	-1900	4600	WORLD	Permanent	Category1Stop	tool + robot (includeRobot)	502	0	10	evaluated

Findings

Level	Zone	Zone name	Kind	Margin [mm]	Program	Point	Line	X [mm]	Y [mm]	Z [mm]	Zone switched by signal
near	31	Zone 31	point	502	R1_program.mod	[literal, line 296]	296	1077	-420	-1398	no
near	31	Zone 31	point	502	R1_program.mod	[literal, line 367]	367	1077	-420	-1398	no
near	31	Zone 31	point	540	R1_program.mod	laser_pos	970	-1250	-2308	710	no
near	31	Zone 31	point	586	R1_program.mod	[literal, line 968]	968	-1232	-2264	708	no
near	31	Zone 31	point	620	R1_program.mod	[literal, line 975]	975	-1219	-2232	707	no
near	31	Zone 31	point	660	R1_program.mod	[literal, line 682]	682	929	-2118	813	no
near	31	Zone 31	point	690	R1_program.mod	[literal, line 690]	690	909	-2093	676	no
near	31	Zone 31	point	752	R1_program.mod	laser_check	977	-1215	-2076	490	no
near	3	Zone 3	point	758	R1_program.mod	[literal, line 985]	985	-600	-1765	1458	yes
near	31	Zone 31	point	784	R1_program.mod	Sichtposition	684	639	-2075	650	no
near	3	Zone 3	point	790	R1_program.mod	[literal, line 983]	983	-497	-1808	1655	yes
near	31	Zone 31	point	803	R1_program.mod	[literal, line 967]	967	-1052	-2123	701	no