Snippets

Version 0.6 from 2021-01-02

No.	Name	Clip	Code	Manual reference

1	main track		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
				topology
				Section 3.2.1 p. 5

2	main line (double track)		`\coordinate (A1) at (0,-0.5);`
			`\coordinate (B1) at (6,-0.5);`
			`\coordinate (A2) at (0, 0.5);`
			`\coordinate (B2) at (6, 0.5);`
			
			`\maintrack (A1) -- (B1);`
			`\maintrack (A2) -- (B2);`
				topology
				Section 3.2.1 p. 5

3	secondary track		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
				topology
				Section 3.2.1 p. 5

4	track number		`\coordinate (A) at (0,0);`
			`\coordinate (X) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`% order is important`
			`\maintrack (A) -- (B); % first`
			`\tracklabel at (X) label (No.); % secound`
				topology
				Section 3.2.1 p. 5

5	bufferstop (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (3,0);`
			
			`\maintrack (A) -- (B);`
			`\bufferstop[forward] at (B);`
				topology
				Section 3.2.1 p. 6

6	bufferstop (backward)		`\coordinate (A) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\bufferstop[backward] at (A);`
				topology
				Section 3.2.1 p. 6

7	friction bufferstop (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (3,0);`
			
			`\maintrack (A) -- (B);`
			`\bufferstop[forward,friction=.5] at (B);`
				topology
				Section 3.2.1 p. 6

No.	Name	Clip	Code	Manual reference

8	friction bufferstop (backward)		`\coordinate (A) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\bufferstop[backward,friction=.5] at (A);`
				topology
				Section 3.2.1 p. 6

9	track closure		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (3,0);`
			
			`\maintrack (A) -- (B);`
			`\trackclosure at (B);`
				topology
				Section 3.2.1 p. 6

10	turnout left (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,1);`
			`\turnout[forward,branch=left] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

11	turnout left (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,1);`
			`\turnout[backward,branch=left] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

12	turnout right (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,-1);`
			`\turnout[forward,branch=right] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

13	turnout right (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,-1);`
			`\turnout[backward,branch=right] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

14	turnout left (forward)
	with fouling point indicator
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,1);`
			`\turnout[forward,branch=left,fouling point] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

15	turnout left (backward)
	with fouling point indicator
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,1);`
			`\turnout[backward,branch=left,fouling point] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

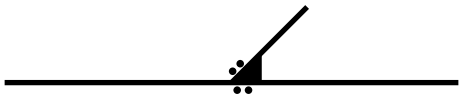
16	turnout right (forward)
	with fouling point indicator
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,-1);`
			`\turnout[forward,branch=right,fouling point] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

No.	Name	Clip	Code	Manual reference

17	turnout right (backward)
	with fouling point indicator
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,-1);`
			`\turnout[backward,branch=right,fouling point] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

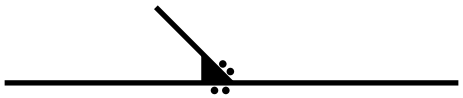
18	turnout left (forward)
	with points in right position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,1);`
			`\turnout[forward,branch=left,points=right] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

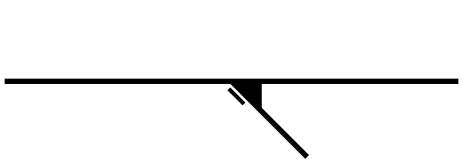
19	turnout left (forward)
	with points in left position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,1);`
			`\turnout[forward,branch=left,points=left] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

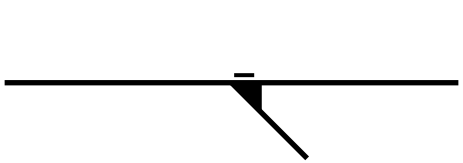
20	turnout left (forward)
	with moving points
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,1);`
			`\turnout[forward,branch=left,points=moving] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

21	turnout left (backward)
	with points in right position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,1);`
			`\turnout[backward,branch=left,points=right] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

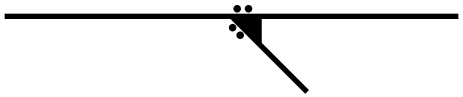
22	turnout left (backward)
	with points in left position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,1);`
			`\turnout[backward,branch=left,points=left] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

23	turnout left (backward)
	with moving points
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,1);`
			`\turnout[backward,branch=left,points=moving] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

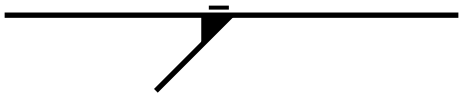
24	turnout right (forward)
	with points in right position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,-1);`
			`\turnout[forward,branch=right,points=right] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

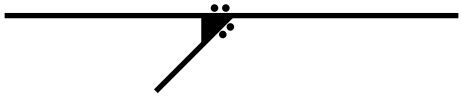
25	turnout right (forward)
	with points in left position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,-1);`
			`\turnout[forward,branch=right,points=left] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

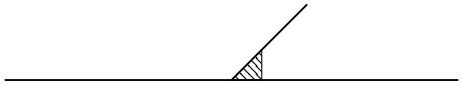
No.	Name	Clip	Code	Manual reference

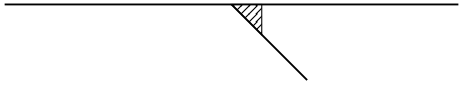
26	turnout right (forward)
	with moving points
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,-1);`
			`\turnout[forward,branch=right,points=moving] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

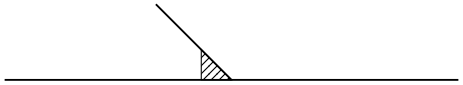
27	turnout right (backward)
	with points in right position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,-1);`
			`\turnout[backward,branch=right,points=right] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

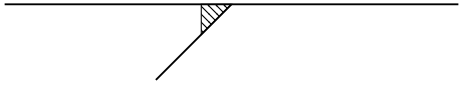
28	turnout right (backward)
	with points in left position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,-1);`
			`\turnout[backward,branch=right,points=left] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

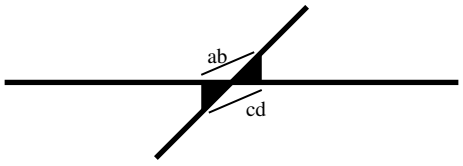
29	turnout right (backward)
	with moving points
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,-1);`
			`\turnout[backward,branch=right,points=moving] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

30	turnout left (forward)
	operated manually
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\secondarytrack (Y) -- ++(1,1);`
			`\turnout[forward,branch=left,operation=manual] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

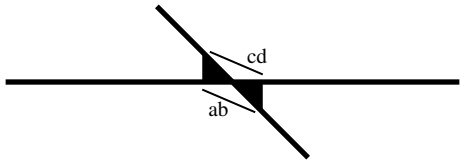
31	turnout right (forward)
	operated manually
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\secondarytrack (Y) -- ++(1,-1);`
			`\turnout[forward,branch=right,operation=manual] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

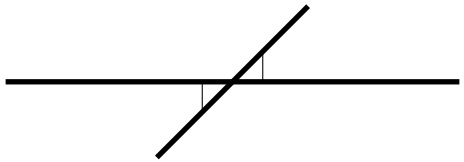
32	turnout left (backward)
	operated manually
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\secondarytrack (Y) -- ++(-1,1);`
			`\turnout[backward,branch=left,operation=manual] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

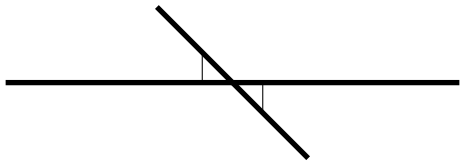
33	turnout right (backward)
	operated manually
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\secondarytrack (Y) -- ++(-1,-1);`
			`\turnout[backward,branch=right,operation=manual] at (Y) label ();`
				topology
				Section 3.2.2 p. 6

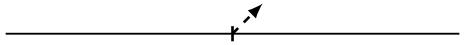
34	double-slip turnout left		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++( 1, 1);`
			`\maintrack (Y) -- ++(-1,-1);`
			
			`\slipturnout[branch=left] at (Y) label (ab)(cd);`
				topology
				Section 3.2.2 p. 7

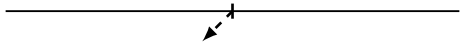
No.	Name	Clip	Code	Manual reference

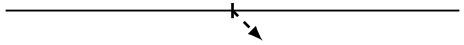
35	double-slip turnout right		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++( 1,-1);`
			`\maintrack (Y) -- ++(-1, 1);`
			
			`\slipturnout[branch=right] at (Y) label (ab)(cd);`
				topology
				Section 3.2.2 p. 7

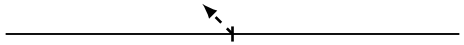
36	diamond crossing left		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++( 1, 1);`
			`\maintrack (Y) -- ++(-1,-1);`
			
			`\crossing[branch=left] at (Y) label ();`
				topology
				Section 3.2.2 p. 7

37	diamond crossing right		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++( 1,-1);`
			`\maintrack (Y) -- ++(-1, 1);`
			
			`\crossing[branch=right] at (Y) label ();`
				topology
				Section 3.2.2 p. 7

38	derailer left (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\derailer[forward,branch=left] at (Y) label ();`
				topology
				Section 3.2.2 p. 8

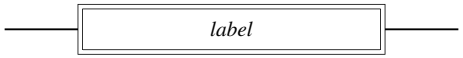
39	derailer left (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\derailer[backward,branch=left] at (Y) label ();`
				topology
				Section 3.2.2 p. 8

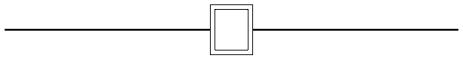
40	derailer right (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\derailer[forward,branch=right] at (Y) label ();`
				topology
				Section 3.2.2 p. 8

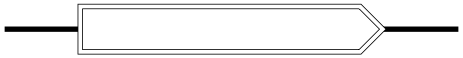
41	derailer right (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\derailer[backward,branch=right] at (Y) label ();`
				topology
				Section 3.2.2 p. 8

42	vehicles (parked)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (3,0);`
			
			`\secondarytrack (A) -- (B);`
			`\parkedvehicles[] at (T) label ();`
				vehicles
				Section 3.3 p. 8

No.	Name	Clip	Code	Manual reference

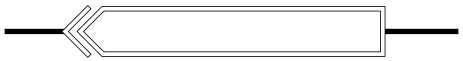
43	vehicles with label (parked)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (3,0);`
			
			`\secondarytrack (A) -- (B);`
			`\parkedvehicles[] at (T) label (label);`
				vehicles
				Section 3.3 p. 8

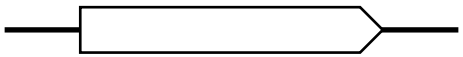
44	vehicle (parked)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (3,0);`
			
			`\secondarytrack (A) -- (B);`
			`\parkedvehicles[length=0.5cm] at (T) label ();`
				vehicles
				Section 3.3 p. 8

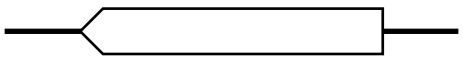
45	train in shunting mode (direction forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\shunting[forward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

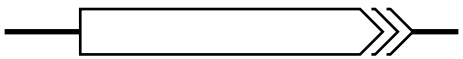
46	train in shunting mode (direction backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\shunting[backward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

47	train shunting (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\shunting[movement,forward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

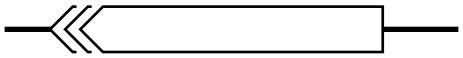
48	train shunting (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\shunting[movement,backward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

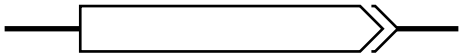
49	train (direction forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[forward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

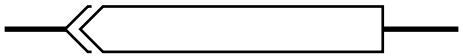
50	train (direction backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\train[backward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

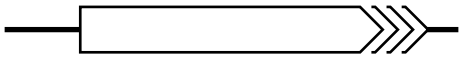
51	train moving (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[run=normal,forward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

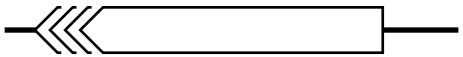
No.	Name	Clip	Code	Manual reference

52	train moving (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\train[run=normal,backward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

53	train moving slow (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[run=slow,forward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

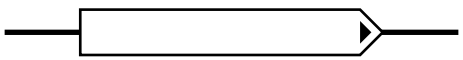
54	train moving slow (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\train[run=slow,backward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

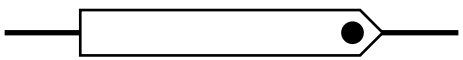
55	train moving fast (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[run=fast,forward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

56	train moving fast (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\train[run=fast,backward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

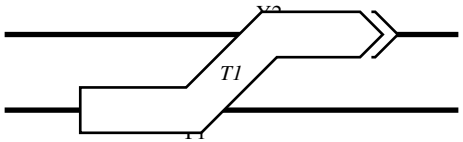
57	train ghost (direction forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[ghost,forward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

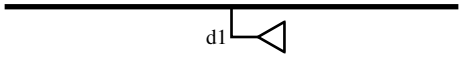
58	train ghost (direction backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\train[ghost,backward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

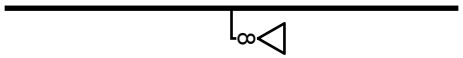
59	train operated automatic (direction forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[operation=automatic,forward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

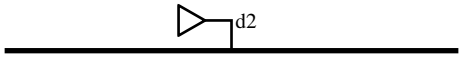
60	train operated by human (direction forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[operation=manual,forward] at (T) label ();`
				vehicles
				Section 3.3 p. 9

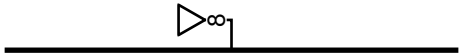
No.	Name	Clip	Code	Manual reference

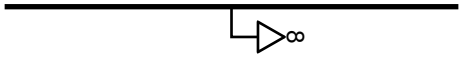
61	train running over a junction		`\coordinate (A1) at (0 ,-0.5);`
			`\coordinate (Y1) at (2.5,-0.5);`
			`\coordinate (B1) at (6 ,-0.5);`
			`\coordinate (A2) at (0 , 0.5);`
			`\coordinate (Y2) at (3.5, 0.5);`
			`\coordinate (B2) at (6 , 0.5);`
			`\coordinate (T) at (5 , 0.5);`
			
			`\maintrack (A1) -- (B1);`
			`\maintrack (A2) -- (B2);`
			`\maintrack (Y1) -- (Y2);`
			`\turnout[forward ,branch=left ] at (Y1) label (Y1);`
			`\turnout[backward,branch=right] at (Y2) label (Y2);`
			
			`\train[`
			`  run=slow,forward,`
			`  bend left at={(Y1)},bend right at={(Y2)},`
			`  shift label={(-2,-0.5)} % relative coordinate`
			`] at (T) label (T1);`
				vehicles Section 3.3 p. 9

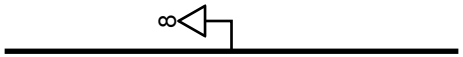
62	distant signal (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\distantsignal[forward] at (S) label (d1);`
				trafficcontrol Section 3.4.1 p. 10

63	distant signal
	with speed indicator
			`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\distantsignal[forward,distant speed={8}] at (S) label ();`
			`% replace the 8 with desired speed or remove tikz key`
				trafficcontrol Section 3.4.1 p. 10

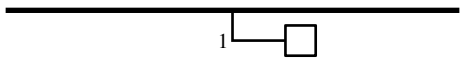
64	distant signal (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\distantsignal[backward] at (S) label (d2);`
				trafficcontrol Section 3.4.1 p. 10

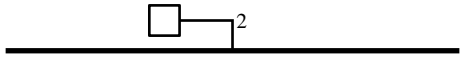
65	distant signal
	with speed indicator
			`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\distantsignal[backward,distant speed={8}] at (S) label ();`
			`% replace the 8 with desired speed or remove tikz key`
				trafficcontrol Section 3.4.1 p. 10

66	speed signal (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\speedsignal[forward,speed={8}] at (S) label ();`
			`% replace the 8 with desired speed`
				trafficcontrol Section 3.4.1 p. 11

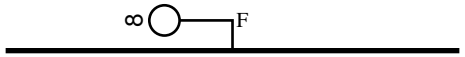
67	speed signal (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\speedsignal[backward,speed={8}] at (S) label ();`
			`% replace the 8 with desired speed`
				trafficcontrol Section 3.4.1 p. 11

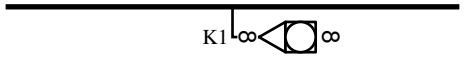
No.	Name	Clip	Code	Manual reference

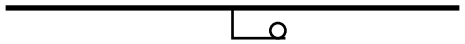
68	block signal (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\blocksignal[forward] at (S) label (1);`
				trafficcontrol Section 3.4.1 p. 11

69	block signal (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\blocksignal[backward] at (S) label (2);`
				trafficcontrol Section 3.4.1 p. 11

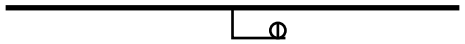
70	route signal (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\routesignal[forward] at (S) label (R1);`
				trafficcontrol Section 3.4.1 p. 12

71	route signal (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\routesignal[backward,speed={8}] at (S) label (F);`
			`% replace the 8 with desired speed or remove tikz key`
				trafficcontrol Section 3.4.1 p. 12

72	combined signal (distant, block and route signal)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\signal[distant,block,route,forward,distant speed=8,speed=8]`
			`  at (S) label (K1);`
			`% replace the 8 with desired speed or remove tikz key`
				trafficcontrol Section 3.4.1 p. 10

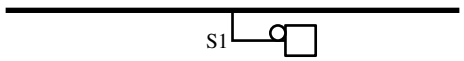
73	shunt signal (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\shuntsignal[forward] at (S) label ();`
				trafficcontrol Section 3.4.1 p. 12

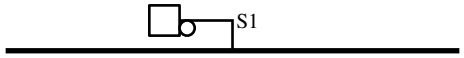
74	shunt signal (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\shuntsignal[backward] at (S) label ();`
				trafficcontrol Section 3.4.1 p. 12

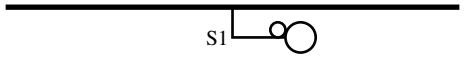
75	shunt signal locked (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\shuntsignal[forward,locked] at (S) label ();`
				trafficcontrol Section 3.4.1 p. 12

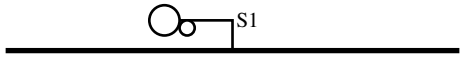
76	shunt signal locked (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\shuntsignal[backward,locked] at (S) label ();`
				trafficcontrol Section 3.4.1 p. 12

No.	Name	Clip	Code	Manual reference

77	block and shunt signal (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\signal[block,shunting,forward] at (S) label (S1);`
				trafficcontrol Section 3.4.1 p. 10

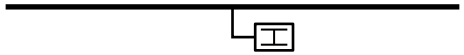
78	block and shunt signal (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\signal[block,shunting,backward] at (S) label (S1);`
				trafficcontrol Section 3.4.1 p. 10

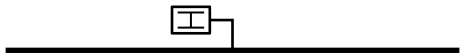
79	route and shunt signal (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\signal[route,shunting,forward] at (S) label (S1);`
				trafficcontrol Section 3.4.1 p. 10

80	route and shunt signal (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\signal[route,shunting,backward] at (S) label (S1);`
				trafficcontrol Section 3.4.1 p. 10

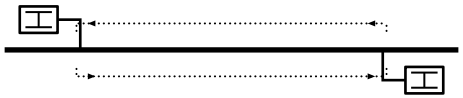
81	shunt limit (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\shuntlimit[forward] at (S) label ();`
				trafficcontrol Section 3.4.1 p. 13

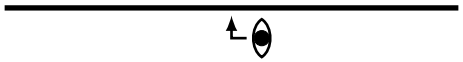
82	shunt limit (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\shuntlimit[backward] at (S) label ();`
				trafficcontrol Section 3.4.1 p. 13

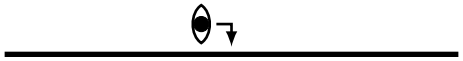
83	train berth sign (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\berthsignal[forward] at (S) label ();`
				trafficcontrol Section 3.4.1 p. 13

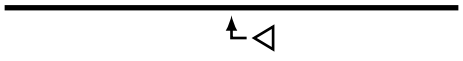
84	train berth sign (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\berthsignal[backward] at (S) label ();`
				trafficcontrol Section 3.4.1 p. 13

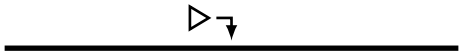
No.	Name	Clip	Code	Manual reference

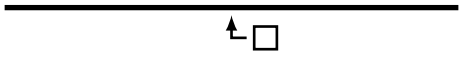
85	train berth		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (H) at (3,0);`
			`\coordinate (S1) at (1,0);`
			`\coordinate (S2) at (5,0);`
			
			`\maintrack (A) -- (B);`
			
			`\berth[forward ] at (H) length ();`
			`\berth[backward] at (H) length ();`
			`\berthsignal[backward] at (S1) label ();`
			`\berthsignal[forward ] at (S2) label ();`
				trafficcontrol
				Section 3.4.1 p. 13
				&
				measures
				Section 3.7 p. 24

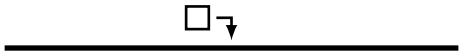
86	view point (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\viewpoint[forward] at (S);`
				trafficcontrol
				Section 3.4.2 p. 14

87	view point (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\viewpoint[backward] at (S);`
				trafficcontrol
				Section 3.4.2 p. 14

88	braking point (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\brakingpoint[forward] at (S) label ();`
				trafficcontrol
				Section 3.4.2 p. 14

89	braking point (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\brakingpoint[backward] at (S) label ();`
				trafficcontrol
				Section 3.4.2 p. 14

90	end of movement authority (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\movementauthority[forward] at (S) label ();`
				trafficcontrol
				Section 3.4.2 p. 14

91	end of movement authority (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\movementauthority[backward] at (S) label ();`
				trafficcontrol
				Section 3.4.2 p. 14

92	danger point (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\dangerpoint[forward] at (S) label ();`
				trafficcontrol
				Section 3.4.2 p. 15

No.	Name	Clip	Code	Manual reference

93	danger point (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\dangerpoint[backward] at (S) label ();`
				trafficcontrol Section 3.4.2 p. 15

94	clearing point		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (CP) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\clearingpoint[backward] at (CP) label ();`
				trafficcontrol Section 3.4.3 p. 15

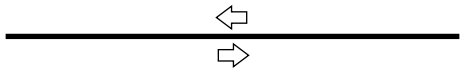
95	block clearing point (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (CP) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\blockclearing[forward] at (CP) label ();`
				trafficcontrol Section 3.4.3 p. 16

96	block clearing point (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (CP) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\blockclearing[backward] at (CP) label ();`
				trafficcontrol Section 3.4.3 p. 16

97	route clearing point (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (CP) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\routeclearing[forward] at (CP) label ();`
				trafficcontrol Section 3.4.3 p. 16

98	route clearing point (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (CP) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\routeclearing[backward] at (CP) label ();`
				trafficcontrol Section 3.4.3 p. 16

99	route (forward & backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (R1) at (2,0);`
			`\coordinate (R2) at (4,0);`
			
			`\maintrack (A) -- (B);`
			`\route[backward] at (R1);`
			`\route[forward] at (R2);`
				trafficcontrol Section 3.4.4 p. 17

100	direction control		`\coordinate (A) at (0,0);`
			`\coordinate (DC) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\directioncontrol[bidirectional] at (DC);`
				trafficcontrol Section 3.4.4 p. 17

101	direction control granted forward		`\coordinate (A) at (0,0);`
			`\coordinate (DC) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\directioncontrol[forward] at (DC);`
				trafficcontrol Section 3.4.4 p. 17

No.	Name	Clip	Code	Manual reference

102	direction control
	granted backward
			`\coordinate (A) at (0,0);`
			`\coordinate (DC) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\directioncontrol[backward] at (DC);`
				trafficcontrol
				Section 3.4.4 p. 17

103	transmitter (right & left)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T1) at (2,0);`
			`\coordinate (T2) at (4,0);`
			
			`\maintrack (A) -- (B);`
			
			`\balise[] at (T1) label ();`
			`\balise[position=left] at (T2) label ();`
				trafficcontrol
				Section 3.4.5 p. 17

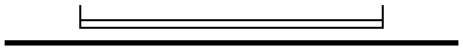
104	transmitter (right)
	with signal
			`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\routesignal[forward] at (S) label ();`
			`\balise[] at (S) label ();`
				trafficcontrol
				Section 3.4.5 p. 17
				&
				Section 3.4.1 p. 12

105	transmitter (right & left)
	effective forward
			`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T1) at (2,0);`
			`\coordinate (T2) at (4,0);`
			
			`\maintrack (A) -- (B);`
			
			`\balise[forward] at (T1) label ();`
			`\balise[forward,position=left] at (T2) label ();`
				trafficcontrol
				Section 3.4.5 p. 18

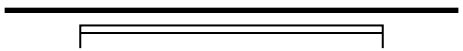
106	transmitter (right & left)
	effective backward
			`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T1) at (2,0);`
			`\coordinate (T2) at (4,0);`
			
			`\maintrack (A) -- (B);`
			
			`\balise[backward] at (T1) label ();`
			`\balise[backward,position=left] at (T2) label ();`
				trafficcontrol
				Section 3.4.5 p. 18

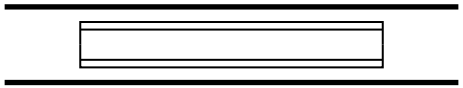
107	transmitter (right & left)
	effective bidirectional
			`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T1) at (2,0);`
			`\coordinate (T2) at (4,0);`
			
			`\maintrack (A) -- (B);`
			
			`\balise[bidirectional] at (T1) label ();`
			`\balise[bidirectional,position=left] at (T2) label ();`
				trafficcontrol
				Section 3.4.5 p. 18

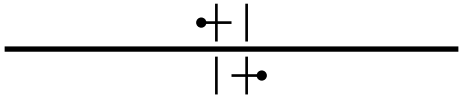
108	loop transmitter		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\transmitter[type=loop] at (T) label ();`
				trafficcontrol
				Section 3.4.5 p. 18

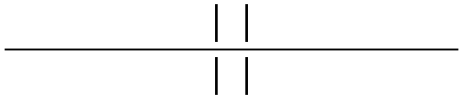
109	platform (left)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (P) at (3,0);`
			
			`\maintrack (A) -- (B);`
			`\platform[side=left] at (P);`
				constructions
				Section 3.5 p. 18

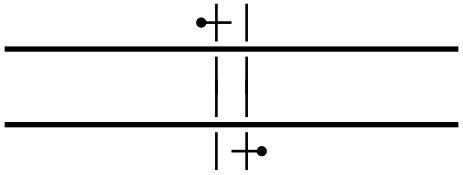
No.	Name	Clip	Code	Manual reference

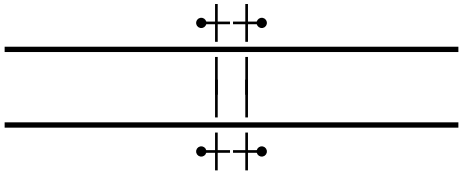
110	platform (right)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (P) at (3,0);`
			
			`\maintrack (A) -- (B);`
			`\platform[side=right] at (P);`
				constructions Section 3.5 p. 18

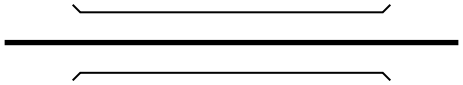
111	platform (middle)		`\coordinate (A1) at (0,-0.5);`
			`\coordinate (B1) at (6,-0.5);`
			`\coordinate (A2) at (0, 0.5);`
			`\coordinate (B2) at (6, 0.5);`
			`\coordinate (P1) at (3, 0.5);`
			`\coordinate (P2) at (3,-0.5);`
			
			`\maintrack (A1) -- (B1);`
			`\maintrack (A2) -- (B2);`
			`\platform[side=right] at (P1);`
			`\platform[side=left] at (P2);`
				constructions Section 3.5 p. 18

112	level crossing (single track)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (X) at (3,0);`
			
			`\maintrack (A) -- (B);`
			`\levelcrossing[barrier=semi] at (X);`
				constructions Section 3.5 p. 19

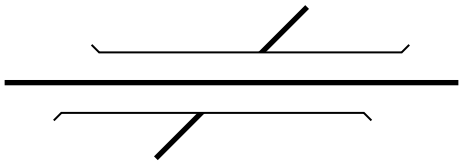
113	level crossing (secondary track) without barrier		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (X) at (3,0);`
			
			`\secondarytrack (A) -- (B);`
			`\levelcrossing[] at (X);`
				constructions Section 3.5 p. 19

114	level crossing (double track)		`\coordinate (A1) at (0,-0.5);`
			`\coordinate (B1) at (6,-0.5);`
			`\coordinate (A2) at (0, 0.5);`
			`\coordinate (B2) at (6, 0.5);`
			`\coordinate (X1) at (3, 0.5);`
			`\coordinate (X2) at (3,-0.5);`
			
			`\maintrack (A1) -- (B1);`
			`\maintrack (A2) -- (B2);`
			`\levelcrossing[barrier=semi,side=left] at (X1);`
			`\levelcrossing[barrier=semi,side=right] at (X2);`
				constructions Section 3.5 p. 19

115	level crossing (double track) with full closure		`\coordinate (A1) at (0,-0.5);`
			`\coordinate (B1) at (6,-0.5);`
			`\coordinate (A2) at (0, 0.5);`
			`\coordinate (B2) at (6, 0.5);`
			`\coordinate (X1) at (3, 0.5);`
			`\coordinate (X2) at (3,-0.5);`
			
			`\maintrack (A1) -- (B1);`
			`\maintrack (A2) -- (B2);`
			`\levelcrossing[barrier=full,side=left] at (X1);`
			`\levelcrossing[barrier=full,side=right] at (X2);`
				constructions Section 3.5 p. 19

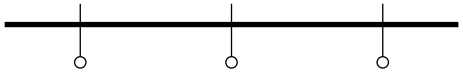
116	bridge		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (X) at (3,0);`
			
			`% order is important`
			`\bridge[] at (X); % first`
			`\maintrack (A) -- (B); % secound`
				constructions Section 3.5 p. 19

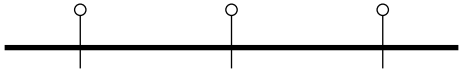
No.	Name	Clip	Code	Manual reference

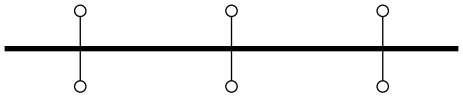
117	bridge
	with track beneath
			`\coordinate (A1) at (0, 0);`
			`\coordinate (B1) at (6, 0);`
			`\coordinate (A2) at (2,-1);`
			`\coordinate (B2) at (4, 1);`
			`\coordinate (X) at (3,0);`
			
			`% order is important`
			`\maintrack (A2) -- (B2); % first`
			`\bridge[shift left=0.25cm,shift right=-0.25cm] at (X); % secound`
			`\maintrack (A1) -- (B1); % third`
				constructions
				Section 3.5 p. 19

118	interlocking		`\coordinate (I) at (3,0);`
			
			`\interlocking at (I);`
				constructions
				Section 3.5 p. 20

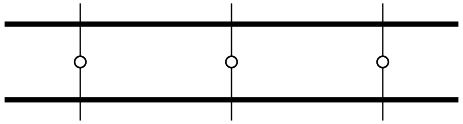
119	hump		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (H) at (3,0);`
			
			`\secondarytrack (A) -- (B);`
			`\hump at (H);`
				constructions
				Section 3.5 p. 20

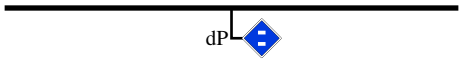
120	pylons (right)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (P1) at (1,0);`
			`\coordinate (P2) at (3,0);`
			`\coordinate (P3) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\pylon[side=right] at (P1);`
			`\pylon[side=right] at (P2);`
			`\pylon[side=right] at (P3);`
				constructions
				Section 3.5 p. 20

121	pylons (left)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (P1) at (1,0);`
			`\coordinate (P2) at (3,0);`
			`\coordinate (P3) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\pylon[side=left] at (P1);`
			`\pylon[side=left] at (P2);`
			`\pylon[side=left] at (P3);`
				constructions
				Section 3.5 p. 20

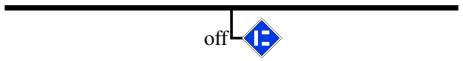
122	pylons (both sides)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (P1) at (1,0);`
			`\coordinate (P2) at (3,0);`
			`\coordinate (P3) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\pylon[side=both] at (P1);`
			`\pylon[side=both] at (P2);`
			`\pylon[side=both] at (P3);`
				constructions
				Section 3.5 p. 20

No.	Name	Clip	Code	Manual reference

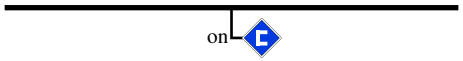
123	pylons (middle)		`\coordinate (A1) at (0,-0.5);`
			`\coordinate (B1) at (6,-0.5);`
			`\coordinate (A2) at (0, 0.5);`
			`\coordinate (B2) at (6, 0.5);`
			`%`
			`\coordinate (P1) at (1,-0.5);`
			`\coordinate (P2) at (3,-0.5);`
			`\coordinate (P3) at (5,-0.5);`
			`\coordinate (P4) at (1, 0.5);`
			`\coordinate (P5) at (3, 0.5);`
			`\coordinate (P6) at (5, 0.5);`
			
			`\maintrack (A1) -- (B1);`
			`\maintrack (A2) -- (B2);`
			`\pylon[side=left] at (P1);`
			`\pylon[side=left] at (P2);`
			`\pylon[side=left] at (P3);`
			`\pylon[side=right] at (P4);`
			`\pylon[side=right] at (P5);`
			`\pylon[side=right] at (P6);`
				constructions
				Section 3.5 p. 20

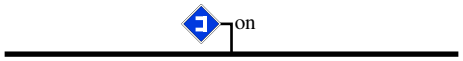
124	distant power off (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\distantpoweroff[forward] at (E) label (dP);`
				electrics
				Section 3.6 p. 21

125	distant power off (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\distantpoweroff[backward] at (E) label (dP);`
				electrics
				Section 3.6 p. 21

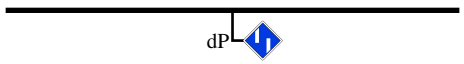
126	power off (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\poweroff[forward] at (E) label (off);`
				electrics
				Section 3.6 p. 21

127	power off (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\poweroff[backward] at (E) label (off);`
				electrics
				Section 3.6 p. 21

128	power on (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\poweron[forward] at (E) label (on);`
				electrics
				Section 3.6 p. 22

129	power on (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\poweron[backward] at (E) label (on);`
				electrics
				Section 3.6 p. 22

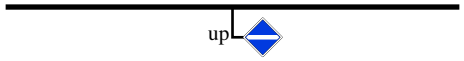
No.	Name	Clip	Code	Manual reference

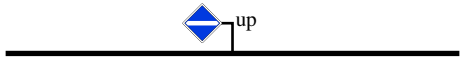
130	distant pantograph down (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\distantpantographdown[forward] at (E) label (dP);`
				electrics Section 3.6 p. 22

131	distant pantograph down (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\distantpantographdown[backward] at (E) label (dP);`
				electrics Section 3.6 p. 22

132	pantograph down (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\pantographdown[forward] at (E) label (down);`
				electrics Section 3.6 p. 23

133	pantograph down (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\pantographdown[backward] at (E) label (down);`
				electrics Section 3.6 p. 23

134	pantograph up (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\pantographup[forward] at (E) label (up);`
				electrics Section 3.6 p. 23

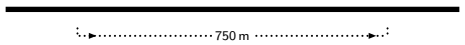
135	pantograph up (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\pantographup[backward] at (E) label (up);`
				electrics Section 3.6 p. 23

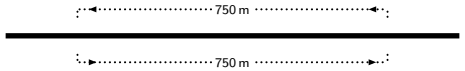
136	wire limit (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\wirelimit[forward] at (E) label (limit);`
				electrics Section 3.6 p. 24

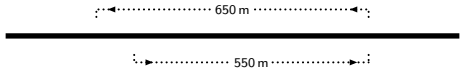
137	wire limit (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (E) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\wirelimit[backward] at (E) label (limit);`
				electrics Section 3.6 p. 24

No.	Name	Clip	Code	Manual reference

138	track distance (in m)		`\coordinate (A1) at (0,-0.5);`
			`\coordinate (X1) at (3,-0.5);`
			`\coordinate (B1) at (6,-0.5);`
			`\coordinate (A2) at (0, 0.5);`
			`\coordinate (X2) at (3, 0.5);`
			`\coordinate (B2) at (6, 0.5);`
			
			`\maintrack (A1) -- (B1);`
			`\maintrack (A2) -- (B2);`
			`\trackdistance between (X2) and (X1) distance (4,50);`
				measures
				Section 3.7 p. 24

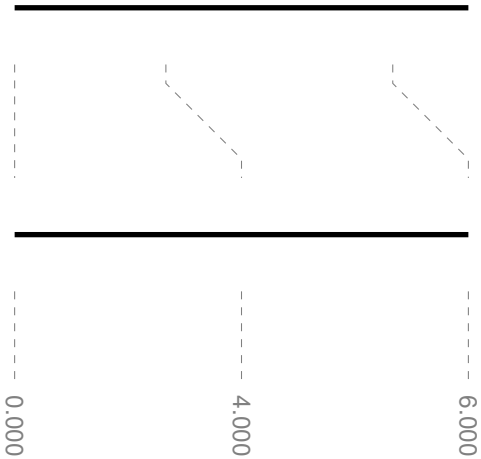
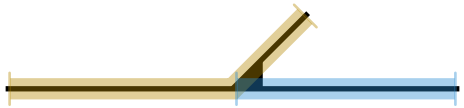
139	train berth shape		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (H) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\berth[forward] at (H) length (\SI{750}{\metre});`
				measures
				Section 3.7 p. 24

140	train berth shape bidirectional		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (H) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\berth[bidirectional] at (H) length (\SI{750}{\metre});`
				measures
				Section 3.7 p. 24

141	train berth with special shape		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (H1) at (3.25,0);`
			`\coordinate (H2) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\berth[forward ,length=3.0cm] at (H1) length (\SI{550}{\metre});`
			`\berth[backward,length=3.5cm] at (H2) length (\SI{650}{\metre});`
				measures
				Section 3.7 p. 24

142	measure line		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			
			`\measureline (A) -- (B);`
			`\trackclosure at (A);`
			`\trackclosure at (B);`
				measures
				Section 3.7 p. 25

143	hectometer (in km)		`\coordinate (A) at (0,0);`
			`\coordinate (X1) at (3,0);`
			`\coordinate (X2) at (3.5,0);`
			`\coordinate (B) at (6,0);`
			
			`\coordinate (hb) at (0,-2);`
			
			`\maintrack (A) -- (B);`
			
			`\tikzset{hectometer base={(hb)},orientation=right}`
			`\hectometer[] at (A) mileage (0.000);`
			`\hectometer[] at (X1) mileage (4.000);`
			`\hectometer[shift label={(0.3,0)}] at (X2) mileage (4.500);`
			`\hectometer[] at (B) mileage (6.000);`
				measures
				Section 3.7 p. 25

No.	Name	Clip	Code	Manual reference
144	measure line with hectometer (in km)		\coordinate (A1) at (0,0); \coordinate (X1) at (3,0); \coordinate (B1) at (6,0); \coordinate (A2) at (0,3); \coordinate (X2) at (2,3); \coordinate (X3) at (5,3); \coordinate (B2) at (6,3); \coordinate (hb) at (0,-2); \maintrack (A1) -- (B1); \maintrack (A2) -- (B2); \measureline (A2) -- (A1); \measureline (X2) -- ++(0,-1) -- ++(1,-1) -- (X1); \measureline (X3) -- ++(0,-1) -- ++(1,-1) -- (B1); \tikzset{hectometer base={(hb)},orientation=right} \hectometer[] at (A) mileage (0.000); \hectometer[] at (X1) mileage (4.000); \hectometer[] at (B) mileage (6.000);	measures Section 3.7 p. 25
145	track marking		\coordinate (A) at (0,0); \coordinate (X) at (3,0); \coordinate (B) at (6,0); \maintrack (A) -- (B); \trackmarking[green] (A) -- (X); \trackmarking[red] (X) -- (B);	measures Section 3.7 p. 26
146	track marking with turnout		\coordinate (A) at (0,0); \coordinate (Y) at (3,0); \coordinate (B) at (6,0); \maintrack (A) -- (B); \maintrack (Y) -- ++(1,1); \turnout[forward,branch=left] at (Y) label (); \trackmarking[yellow] (A) -- (Y) -- ++(1,1); \trackmarking[blue] (Y) -- (B);	measures Section 3.7 p. 26

1 Revision History

Revision	Date	Author(s)	Description
0.1	2018-09-14	MS	Basic concept of a library with railway topology symbols and some examples.
0.2	2018-12-19	MS	Added transmitters and minor improvements.
0.3	2019-04-04	MS	Moved snippet folder to root folder and defined and used color foreground and background.
0.4	2019-07-21	MS	Reworked library for common tikz library layout.
0.5	2020-01-14	MS	Introducing new syntax and providing a documentation.
0.5.1	2020-02-10	MS	Modified symbol "end of movement authority"; added symbols "braking point" and "danger point".
0.6	2021-01-02	MS	Added symbols for "direction control", "track marking", "pylons" and electric wiring; changed symbol for "friction bufferstop"; created an encapsulating package for future flexibilty - changed load command for library to \usepackage{tikz-trackschematic}.