Snippets

No.	Name	Symbol	Code	Sublibrary

1	main track		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
				topology

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

3	secondary track		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
				topology

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

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

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

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

No.	Name	Symbol	Code	Sublibrary

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

9	track closure		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (3,0);`
			
			`\maintrack (A) -- (B);`
			`\trackclosure at (B);`
				topology

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

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

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

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

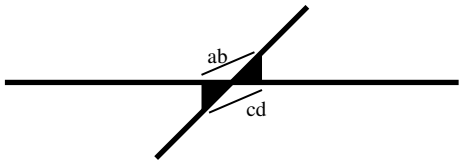
14	turnout left (forward)
	with fouling point indicator
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,1);`
			`\turnout[forward,branch=left,fouling point] at (Y) label ();`
				topology

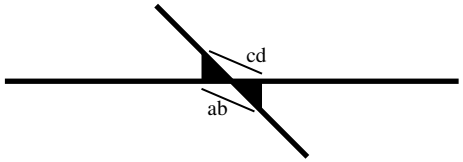
15	turnout left (backward)
	with fouling point indicator
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,1);`
			`\turnout[backward,branch=left,fouling point] at (Y) label ();`
				topology

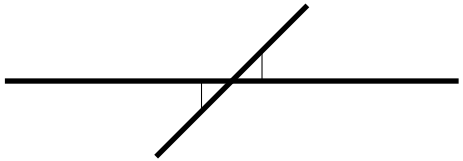
16	turnout right (forward)
	with fouling point indicator
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,-1);`
			`\turnout[forward,branch=right,fouling point] at (Y) label ();`
				topology

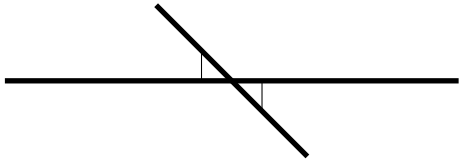
No.	Name	Symbol	Code	Sublibrary

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

18	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

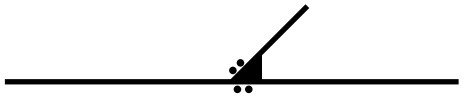
19	double-slip turnout right		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++( 1,-1);`
			`\maintrack (Y) -- ++(-1, 1);`
			
			`\slipturnout[branch=right] at (Y) label (ab)(cd);`
				topology

20	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

21	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

22	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

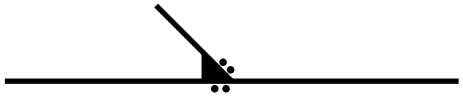
23	turnout left (forward)
	with points in left position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,1);`
			`\turnout[forward,branch=left,points=left] at (Y) label ();`
				topology

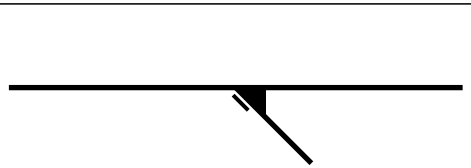
24	turnout left (forward)
	with moving points
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,1);`
			`\turnout[forward,branch=left,points=moving] at (Y) label ();`
				topology

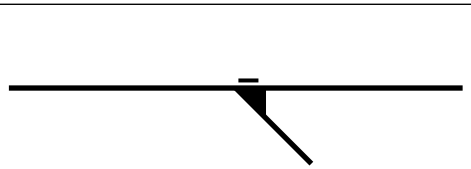
No.	Name	Symbol	Code	Sublibrary

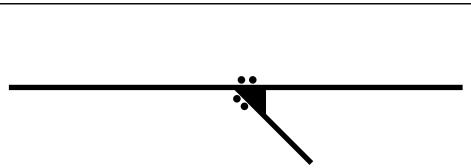
25	turnout left (backward)
	with points in right position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,1);`
			`\turnout[backward,branch=left,points=right] at (Y) label ();`
				topology

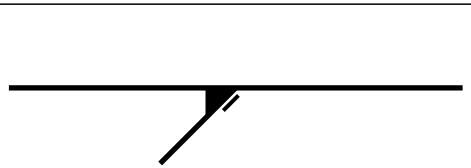
26	turnout left (backward)
	with points in left position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,1);`
			`\turnout[backward,branch=left,points=left] at (Y) label ();`
				topology

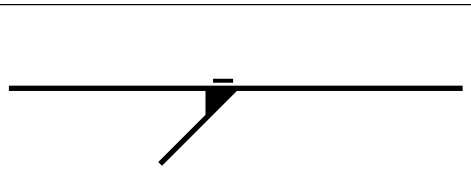
27	turnout left (backward)
	with moving points
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,1);`
			`\turnout[backward,branch=left,points=moving] at (Y) label ();`
				topology

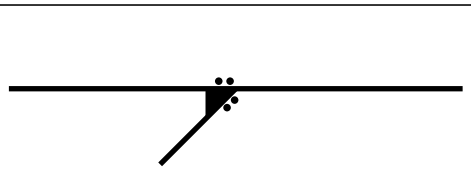
28	turnout right (forward)
	with points in right position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,-1);`
			`\turnout[forward,branch=right,points=right] at (Y) label ();`
				topology

29	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

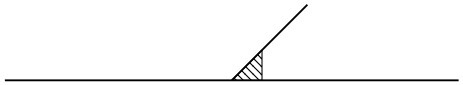
30	turnout right (forward)
	with moving points
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(1,-1);`
			`\turnout[forward,branch=right,points=moving] at (Y) label ();`
				topology

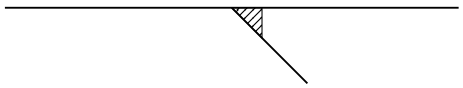
31	turnout right (backward)
	with points in right position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,-1);`
			`\turnout[backward,branch=right,points=right] at (Y) label ();`
				topology

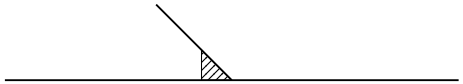
32	turnout right (backward)
	with points in left position
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,-1);`
			`\turnout[backward,branch=right,points=left] at (Y) label ();`
				topology

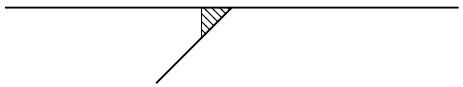
33	turnout right (backward)
	with moving points
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\maintrack (A) -- (B);`
			`\maintrack (Y) -- ++(-1,-1);`
			`\turnout[backward,branch=right,points=moving] at (Y) label ();`
				topology

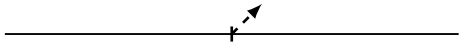
No.	Name	Symbol	Code	Sublibrary

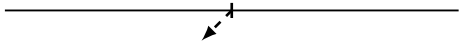
34	turnout left (forward)
	operated manually
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\secondarytrack (Y) -- ++(1,1);`
			`\turnout[forward,branch=left,operation=manual] at (Y) label ();`
				topology

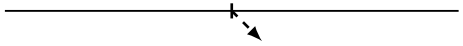
35	turnout right (forward)
	operated manually
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\secondarytrack (Y) -- ++(1,-1);`
			`\turnout[forward,branch=right,operation=manual] at (Y) label ();`
				topology

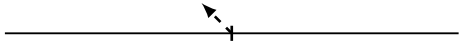
36	turnout left (backward)
	operated manually
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\secondarytrack (Y) -- ++(-1,1);`
			`\turnout[backward,branch=left,operation=manual] at (Y) label ();`
				topology

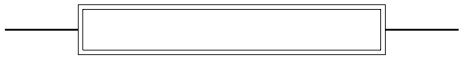
37	turnout right (backward)
	operated manually
			`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\secondarytrack (Y) -- ++(-1,-1);`
			`\turnout[backward,branch=right,operation=manual] at (Y) label ();`
				topology

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

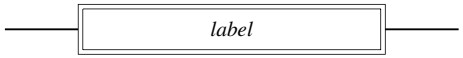
39	derailer left (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\derailer[backward,branch=left] at (Y) label ();`
				topology

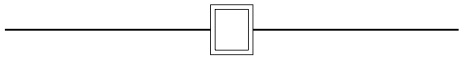
40	derailer right (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\derailer[forward,branch=right] at (Y) label ();`
				topology

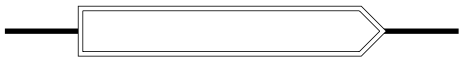
41	derailer right (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (Y) at (3,0);`
			`\coordinate (B) at (6,0);`
			
			`\secondarytrack (A) -- (B);`
			`\derailer[backward,branch=right] at (Y) label ();`
				topology

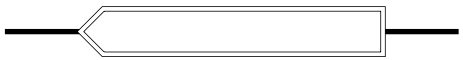
42	vehicles (parked)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (3,0);`
			
			`\secondarytrack (A) -- (B);`
			`\parkedvehicles[] at (T) label ();`
				vehicles

No.	Name	Symbol	Code	Sublibrary

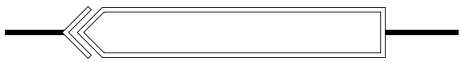
43	vehicles with label (parked)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (3,0);`
			
			`\secondarytrack (A) -- (B);`
			`\parkedvehicles[] at (T) label (label);`
				vehicles

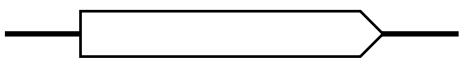
44	vehicle (parked)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (3,0);`
			
			`\secondarytrack (A) -- (B);`
			`\parkedvehicles[length=0.5cm] at (T) label ();`
				vehicles

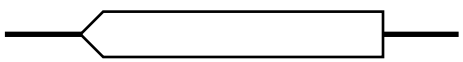
45	train in shunting mode (direction forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\shunting[forward] at (T) label ();`
				vehicles

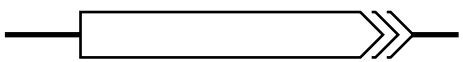
46	train in shunting mode (direction backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\shunting[backward] at (T) label ();`
				vehicles

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

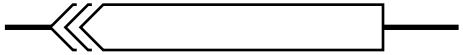
48	train shunting (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\shunting[movement,backward] at (T) label ();`
				vehicles

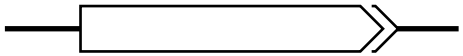
49	train (direction forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[forward] at (T) label ();`
				vehicles

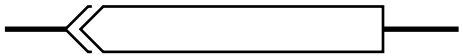
50	train (direction backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\train[backward] at (T) label ();`
				vehicles

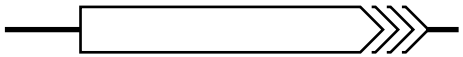
51	train moving (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[run=normal,forward] at (T) label ();`
				vehicles

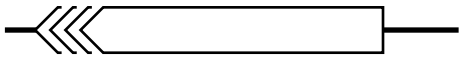
No.	Name	Symbol	Code	Sublibrary

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

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

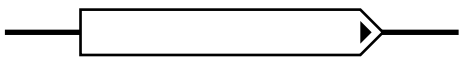
54	train moving slow (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\train[run=slow,backward] at (T) label ();`
				vehicles

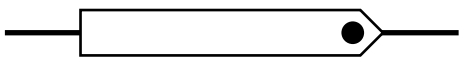
55	train moving fast (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[run=fast,forward] at (T) label ();`
				vehicles

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

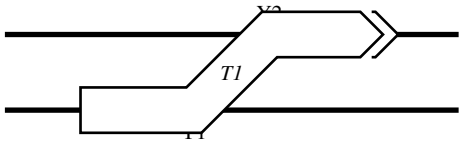
57	train ghost (direction forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[ghost,forward] at (T) label ();`
				vehicles

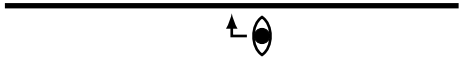
58	train ghost (direction backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (1,0);`
			
			`\maintrack (A) -- (B);`
			`\train[ghost,backward] at (T) label ();`
				vehicles

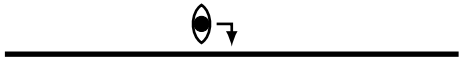
59	train operated automatic (direction forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[operation=automatic,forward] at (T) label ();`
				vehicles

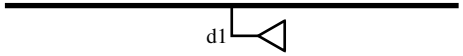
60	train operated by human (direction forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (5,0);`
			
			`\maintrack (A) -- (B);`
			`\train[operation=manual,forward] at (T) label ();`
				vehicles

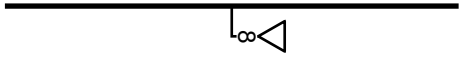
No.	Name	Symbol	Code	Sublibrary

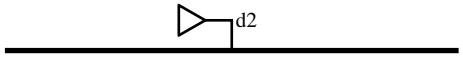
61	train running over a junction		`\coordinate (A1) at (0 ,-0.5);`
			`\coordinate (Y1) at (2.5,-0.5);`
			`\coordinate (B1) at (6 ,-0.5);`
			`\coordinate (A2) at (0 , 0.5);`
			`\coordinate (Y2) at (3.5, 0.5);`
			`\coordinate (B2) at (6 , 0.5);`
			`\coordinate (T) at (5 , 0.5);`
			
			`\maintrack (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

62	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

63	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

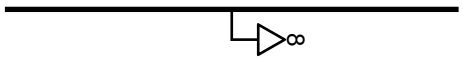
64	distant signal (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\distantsignal[forward] at (S) label (d1);`
				trafficcontrol

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[forward,distant speed={8}] at (S) label ();`
			`% replace the 8 with desired speed or remove tikz key`
				trafficcontrol

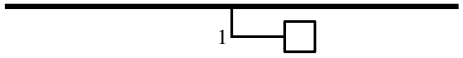
66	distant signal (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\distantsignal[backward] at (S) label (d2);`
				trafficcontrol

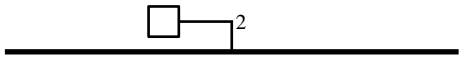
67	distant signal
	with speed indicator
			`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\distantsignal[backward,distant speed={8}] at (S) label ();`
			`% replace the 8 with desired speed or remove tikz key`
				trafficcontrol

No.	Name	Symbol	Code	Sublibrary

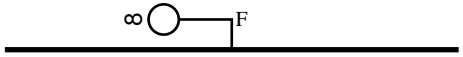
68	speed signal (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\speedsignal[forward,speed={8}] at (S) label ();`
			`% replace the 8 with desired speed`
				trafficcontrol

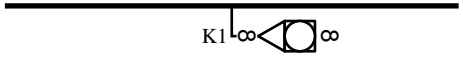
69	speed signal (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\speedsignal[backward,speed={8}] at (S) label ();`
			`% replace the 8 with desired speed`
				trafficcontrol

70	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

71	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

72	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

73	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

74	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

75	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

No.	Name	Symbol	Code	Sublibrary

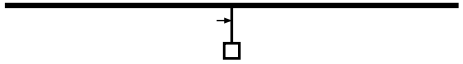
76	shunt signal (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\shuntsignal[backward] at (S) label ();`
				trafficcontrol

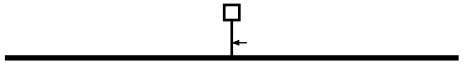
77	shunt signal locked (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\shuntsignal[forward,locked] at (S) label ();`
				trafficcontrol

78	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

79	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

80	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

81	block end marker (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

82	block end marker (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

83	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

84	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

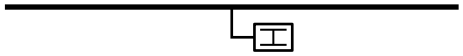
No.	Name	Symbol	Code	Sublibrary

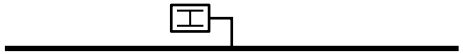
85	block clearing point (backward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (CP) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\blockclearing[backward] at (CP) label ();`
				trafficcontrol

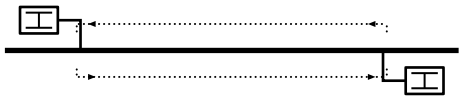
86	route clearing point (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (CP) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\routeclearing[forward] at (CP) label ();`
				trafficcontrol

87	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

88	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

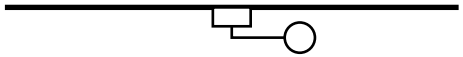
89	train berth sign (forward)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\berthsignal[forward] at (S) label ();`
				trafficcontrol

90	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

91	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
				&
				messures

92	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

No.	Name	Symbol	Code	Sublibrary

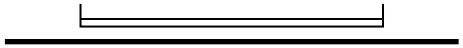
93	transmitter (right)
	with signal
			`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (S) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\routesignal[forward] at (S) label ();`
			`\balise[] at (S) label ();`
				trafficcontrol

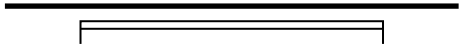
94	transmitter (right & left)
	effective forward
			`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T1) at (2,0);`
			`\coordinate (T2) at (4,0);`
			
			`\maintrack (A) -- (B);`
			
			`\balise[forward] at (T1) label ();`
			`\balise[forward,position=left] at (T2) label ();`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

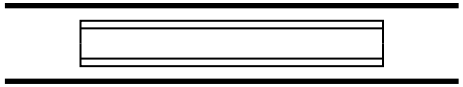
95	transmitter (right & left)
	effective backward
			`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T1) at (2,0);`
			`\coordinate (T2) at (4,0);`
			
			`\maintrack (A) -- (B);`
			
			`\balise[backward] at (T1) label ();`
			`\balise[backward,position=left] at (T2) label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

96	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

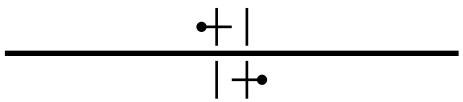
97	loop transmitter		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (T) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\transmitter[type=loop] at (T) label ();`
				trafficcontrol

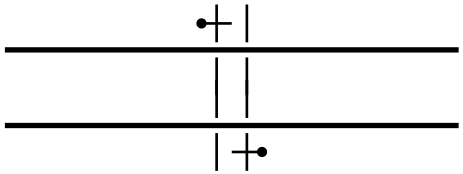
98	platform (left)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (P) at (3,0);`
			
			`\maintrack (A) -- (B);`
			`\platform[side=left] at (P);`
				constructions

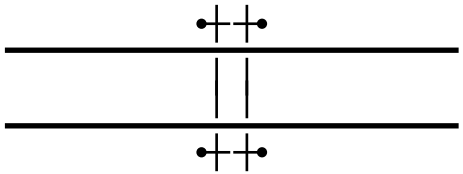
99	platform (right)		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (P) at (3,0);`
			
			`\maintrack (A) -- (B);`
			`\platform[side=right] at (P);`
				constructions

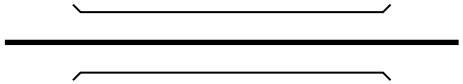
100	platform (middle)		`\coordinate (A1) at (0,-0.5);`
			`\coordinate (B1) at (6,-0.5);`
			`\coordinate (A2) at (0, 0.5);`
			`\coordinate (B2) at (6, 0.5);`
			`\coordinate (P1) at (3, 0.5);`
			`\coordinate (P2) at (3,-0.5);`
			
			`\maintrack (A1) -- (B1);`
			`\maintrack (A2) -- (B2);`
			`\platform[side=right]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

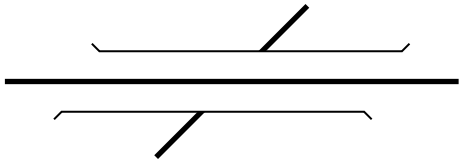
No.	Name	Symbol	Code	Sublibrary

101	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

102	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

103	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

104	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

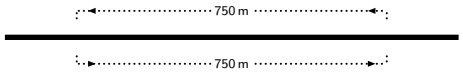
105	bridge
	with track beneath
			`\coordinate (B1) at (6, 0);`
			`\coordinate (A2) at (2,-1);`
			`\coordinate (B2) at (4, 1);`
			`\coordinate (X) at (3,0);`
			
			`% order is important`
			`\maintrack (A2) -- (B2); % first`
			`\bridge[shift left=0.25cm,shift right=-0.25cm] at (X); % secound`
	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

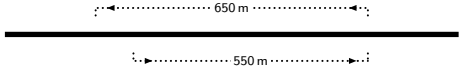
106	hump		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (H) at (3,0);`
			
			`\secondarytrack (A) -- (B);`
			`\hump at (H);`
				constructions

107	interlocking		`\coordinate (I) at (3,0);`
			
			`\interlocking at (I);`
				constructions

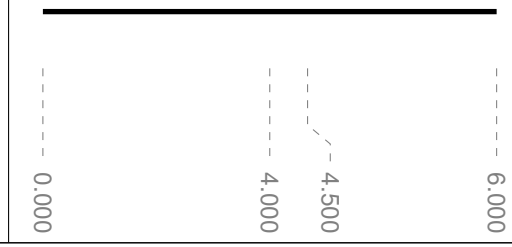
108	train berth shape		`\coordinate (A) at (0,0);`
			`\coordinate (B) at (6,0);`
			`\coordinate (H) at (3,0);`
			
			`\maintrack (A) -- (B);`
			
			`\berth[forward] at (H) length (\SI{750}{\metre});`
				messures

No.	Name	Symbol	Code	Sublibrary

109	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});`
				messures

110	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});`
				messures

111	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);`
				messures

112	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 (bl) at (0,-2);`
			
			`\maintrack (A) -- (B);`
			
			`\tikzset{baseline={(bl)},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);`
				messures