Snippets

Version 0.6.3 from 2022-02-15

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	No	<pre>\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</pre>	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)	[<pre>\coordinate (A) at (3,0); \coordinate (B) at (6,0); \maintrack (A) (B); \bufferstop[backward] at (A);</pre>	topology Section 3.2.1 p. 6
7	friction bufferstop (forward)		<pre>\coordinate (A) at (0,0); \coordinate (B) at (3,0); \maintrack (A) (B); \bufferstop[forward,friction=.5] at (B);</pre>	topology Section 3.2.1 p. 6

No.	Name	Clip	Code	Manual reference
8	friction bufferstop (backward)	• [<pre>\coordinate (A) at (3,0); \coordinate (B) at (6,0); maintrack (A) (B); \bufferstop[backward,friction=.5] at (A);</pre>	topology Section 3.2.1 p. 6
9	track closure		<pre>\coordinate (A) at (0,0); \coordinate (B) at (3,0); \maintrack (A) (B); \trackclosure at (B);</pre>	topology Section 3.2.1 p. 6
10	turnout left (forward)		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
11	turnout left (backward)		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
12	turnout right (forward)		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
13	turnout right (backward)		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
14	turnout left (forward) with fouling point indicator		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
15	turnout left (backward) with fouling point indicator		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
16	turnout right (forward) with fouling point indicator		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6

No.	Name	Clip	Code	Manual reference
17	turnout right (backward) with fouling point indicator		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
18	turnout left (forward) with points in right position		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
19	turnout left (forward) with points in left position		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
20	turnout left (forward) with moving points		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
21	turnout left (backward) with points in right position		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
22	turnout left (backward) with points in left position		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
23	turnout left (backward) with moving points		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
24	turnout right (forward) with points in right position		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
25	turnout right (forward) with points in left position		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6

No.	Name	Clip	Code	Manual reference
26	turnout right (forward) with moving points		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
27	turnout right (backward) with points in right position		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
28	turnout right (backward) with points in left position		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
29	turnout right (backward) with moving points	—	<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
30	turnout left (forward) operated manually		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
31	turnout right (forward) operated manually		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
32	turnout left (backward) operated manually		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
33	turnout right (backward) operated manually		<pre>\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 ();</pre>	topology Section 3.2.2 p. 6
34	double-slip turnout left	ab	\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	cd	\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)		<pre>\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 ();</pre>	topology Section 3.2.2 p. 8
39	derailer left (backward)		<pre>\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 ();</pre>	topology Section 3.2.2 p. 8
40	derailer right (forward)		<pre>\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 ();</pre>	topology Section 3.2.2 p. 8
41	derailer right (backward)		<pre>\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 ();</pre>	topology Section 3.2.2 p. 8
42	vehicles (parked)		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (T) at (3,0); \secondarytrack (A) (B); \parkedvehicles[] at (T) label ();</pre>	vehicles Section 3.3 p. 8

No.	Name	Clip	Code	Manual reference
43	vehicles with label (parked)	label	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (T) at (3,0); \secondarytrack (A) (B); \parkedvehicles[] at (T) label (label);</pre>	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)		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (T) at (5,0); \maintrack (A) (B); \shunting[forward] at (T) label ();</pre>	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)		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (T) at (1,0); \maintrack (A) (B); \train[backward] at (T) label ();</pre>	vehicles Section 3.3 p. 9
51	train moving (forward)		<pre>\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 ();</pre>	vehicles Section 3.3 p. 9

No.	Name	Clip	Code	Manual reference
52	train moving (backward)		<pre>\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 ();</pre>	vehicles Section 3.3 p. 9
53	train moving slow (forward)		<pre>\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 ();</pre>	vehicles Section 3.3 p. 9
54	train moving slow (backward)		<pre>\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 ();</pre>	vehicles Section 3.3 p. 9
55	train moving fast (forward)		<pre>\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 ();</pre>	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)		<pre>\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 ();</pre>	vehicles Section 3.3 p. 9
60	train operated by human (direction forward)	•	<pre>\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 ();</pre>	vehicles Section 3.3 p. 9

No.	Name	Clip	Code	Manual reference
61	train running over a junction	TI	\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 (B2) at (5, 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);	vehicles Section 3.3 p. 9
			<pre>\train[run=slow, forward, bend left at={(Y1)}, bend right at={(Y2)}, shift label={(-2,-0.5)} % relative coordinate] at (T) label (T1);</pre>	
62	distant signal (forward)	d1 d1	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \distantsignal[forward] at (S) label (d1);</pre>	trafficcontrol Section 3.4.1 p. 10
63	distant signal with speed indicator		<pre>\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</pre>	trafficcontrol Section 3.4.1 p. 10
64	distant signal (backward)	d2	\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 (); \frac{* replace the 8 with desired speed or remove tikz key}	trafficcontrol Section 3.4.1 p. 10
66	speed signal (forward)		<pre>\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</pre>	trafficcontrol Section 3.4.1 p. 11
67	speed signal (backward)		<pre>\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</pre>	trafficcontrol Section 3.4.1 p. 11

No.	Name	Clip	Code	Manual reference
68	block signal (forward)		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \blocksignal[forward] at (S) label (1);</pre>	trafficcontrol Section 3.4.1 p. 11
69	block signal (backward)	2	\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)	R1	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \routesignal[forward] at (S) label (R1);</pre>	trafficcontrol Section 3.4.1 p. 12
71	route signal (backward)	∞ <u></u> F	<pre>\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</pre>	trafficcontrol Section 3.4.1 p. 12
72	combined signal (distant, block and route signal)		<pre>\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</pre>	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)		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \shuntsignal[forward,locked] at (S) label ();</pre>	trafficcontrol Section 3.4.1 p. 12
76	shunt signal locked (backward)	Φ	\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)	sı	\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)	sı	<pre>\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);</pre>	trafficcontrol Section 3.4.1 p. 10
79	route and shunt signal (forward)	SILOO	<pre>\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);</pre>	trafficcontrol Section 3.4.1 p. 10
80	route and shunt signal (backward)	<u> </u>	\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)		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \shuntlimit[forward] at (S) label ();</pre>	trafficcontrol Section 3.4.1 p. 13
82	shunt limit (backward)		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \shuntlimit[backward] at (S) label ();</pre>	trafficcontrol Section 3.4.1 p. 13
83	train berth sign (forward)	<u> </u>	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \berthsignal[forward] at (S) label ();</pre>	trafficcontrol Section 3.4.1 p. 13
84	train berth sign (backward)	<u> </u>	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \berthsignal[backward] at (S) label ();</pre>	trafficcontrol Section 3.4.1 p. 13

No.	Name	Clip	Code	Manual reference
85	train berth		<pre>\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 ();</pre>	trafficcontrol Section 3.4.1 p. 13 & measures Section 3.7 p. 24
86	view point (forward)	<u></u>	\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)	<u>+</u> 4	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \brakingpoint[forward] at (S) label ();</pre>	trafficcontrol Section 3.4.2 p. 14
89	braking point (backward)	⊳ ¬	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \brakingpoint[backward] at (S) label ();</pre>	trafficcontrol Section 3.4.2 p. 14
90	end of movement authority (forward)	<u> </u>	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \movementauthority[forward] at (S) label ();</pre>	trafficcontrol Section 3.4.2 p. 14
91	end of movement authority (backward)		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \movementauthority[backward] at (S) label ();</pre>	trafficcontrol Section 3.4.2 p. 14
92	danger point (forward)	*	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (S) at (3,0); \maintrack (A) (B); \dangerpoint[forward] at (S) label ();</pre>	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);	trafficcontrol Section 3.4.2 p. 15
			\maintrack (A) (B);	Section 5. 1.2 p. 15
			\dangerpoint[backward] at (S) label ();	
94	clearing point		\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (CP) at (3,0);	trafficcontrol
			\maintrack (A) (B);	Section 3.4.3 p. 15
			\clearingpoint[backward] at (CP) label ();	
95	block clearing point (forward)		\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (CP) at (3,0);	trafficcontrol
	block clearing point (forward)	*	\maintrack (A) (B);	Section 3.4.3 p. 16
			\blockclearing[forward] at (CP) label ();	
			\coordinate (A) at (0,0);	
0.6		♦	\coordinate (B) at (6,0); \coordinate (CP) at (3,0);	trafficcontrol
96	block clearing point (backward)	<u> </u>	\maintrack (A) (B);	Section 3.4.3 p. 16
			\blockclearing[backward] at (CP) label ();	
			\coordinate (A) at (0,0);	
			\coordinate (B) at (6,0); \coordinate (CP) at (3,0);	trafficcontrol
97	route clearing point (forward)	<u> </u>	\maintrack (A) (B);	Section 3.4.3 p. 16
			\routeclearing[forward] at (CP) label ();	
			<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (CP) at (3,0);</pre>	trafficcontrol
98	route clearing point (backward)	<u> </u>		Section 3.4.3 p. 16
			\maintrack (A) (B);	
			\routeclearing[backward] at (CP) label (); \coordinate (A) at (0,0);	
			\coordinate (B) at (6,0);	
99	route (forward & backward)		\coordinate (R1) at (2,0); \coordinate (R2) at (4,0);	trafficcontrol
			\maintrack (A) (B); \route[backward] at (R1); \route[forward] at (R2);	Section 3.4.4 p. 17
		<i>/</i> _	\coordinate (A) at (0,0); \coordinate (DC) at (3,0);	
100	direction control		\coordinate (B) at (6,0);	trafficcontrol Section 3.4.4 p. 17
			<pre>\maintrack (A) (B); \directioncontrol[bidirectional] at (DC);</pre>	Section 5.4.4 p. 17
			\coordinate (A) at (0,0); \coordinate (DC) at (3,0);	
101	direction control	<u> </u>	\coordinate (B) at (6,0);	trafficcontrol Section 3.4.4 p. 17
	granted forward	-	<pre>\maintrack (A) (B); \directioncontrol[forward] at (DC);</pre>	Section 5.4.4 p. 17
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No.	Name	Clip	Code	Manual reference
102	direction control granted backward	←	<pre>\coordinate (A) at (0,0); \coordinate (DC) at (3,0); \coordinate (B) at (6,0); \maintrack (A) (B); \directioncontrol[backward] at (DC);</pre>	trafficcontrol Section 3.4.4 p. 17
103	transmitter (right & left)		<pre>\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 ();</pre>	trafficcontrol Section 3.4.5 p. 17
104	transmitter (right) with signal	——————————————————————————————————————	<pre>\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 ();</pre>	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	4	<pre>\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 ();</pre>	trafficcontrol Section 3.4.5 p. 18
107	transmitter (right & left) effective bidirectional		<pre>\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 ();</pre>	trafficcontrol Section 3.4.5 p. 18
108	loop transmitter		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (T) at (3,0); \maintrack (A) (B); \transmitter[type=loop] at (T) label ();</pre>	trafficcontrol Section 3.4.5 p. 18
109	platform (left)		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (P) at (3,0); \maintrack (A) (B); \platform[side=left] at (P);</pre>	constructions Section 3.5 p. 18

No.	Name	Clip	Code	Manual reference
110	platform (right)		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (P) at (3,0); \maintrack (A) (B); \platform[side=right] at (P);</pre>	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)	<u>+ </u> +•	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (X) at (3,0); \maintrack (A) (B); \levelcrossing[barrier=semi] at (X);</pre>	constructions Section 3.5 p. 19
113	level crossing (secondary track) without barrier		<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (X) at (3,0); \secondarytrack (A) (B); \levelcrossing[] at (X);</pre>	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		<pre>\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</pre>	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	.illi. 	\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)		<pre>\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);</pre>	constructions Section 3.5 p. 20
121	pylons (left)	- 0 0	\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)		<pre>\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);</pre>	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=right] at (P4); \pylon[side=right] at (P5); \pylon[side=right] at (P6);	constructions Section 3.5 p. 20
124	distant power off (forward)	dP-	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (E) at (3,0); \maintrack (A) (B); \distantpoweroff[forward] at (E) label (dP);</pre>	electrics Section 3.6 p. 21
125	distant power off (backward)	♣¬dP	\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)	off-	\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)	off	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (E) at (3,0); \maintrack (A) (B); \poweroff[backward] at (E) label (off);</pre>	electrics Section 3.6 p. 21
128	power on (forward)	on to	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (E) at (3,0); \maintrack (A) (B); \poweron[forward] at (E) label (on);</pre>	electrics Section 3.6 p. 22
129	power on (backward)	on	\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)	dP dP	\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)	d₽	\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)	down-	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (E) at (3,0); \maintrack (A) (B); \pantographdown[forward] at (E) label (down);</pre>	electrics Section 3.6 p. 23
133	pantograph down (backward)	down	\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)	ир	\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)	↓ ¬up	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (E) at (3,0); \maintrack (A) (B); \pantographup[backward] at (E) label (up);</pre>	electrics Section 3.6 p. 23
136	wire limit (forward)	limit 🍑	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (E) at (3,0); \maintrack (A) (B); \wirelimit[forward] at (E) label (limit);</pre>	electrics Section 3.6 p. 24
137	wire limit (backward)	∳ ¬limit	<pre>\coordinate (A) at (0,0); \coordinate (B) at (6,0); \coordinate (E) at (3,0); \maintrack (A) (B); \wirelimit[backward] at (E) label (limit);</pre>	electrics Section 3.6 p. 24

No.	Name	Clip	Code	Manual reference
138	track distance (in m)	4,50 V	\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	:. ▶	<pre>\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});</pre>	measures Section 3.7 p. 24
140	train berth shape bidirectional	: - 4 ····································	<pre>\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});</pre>	measures Section 3.7 p. 24
141	train berth with special shape	650 m	<pre>\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});</pre>	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)	4.500	<pre>\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);</pre>	measures Section 3.7 p. 25

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

1 Revision History

Description

Revision Date

Author(s)

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 flexibility - changed load command for library to \usepackage{tikz-trackschematic}.
0.6.1	2021-09-30	MS	removed package requirement Imodern, minor correction in manual, added citation information
0.6.2	2021-10-15	MS	bug fixing
0.6.3	2022-02-15	MS, GW	fixed spelling error and documented (slip-)turnout option: points=moving; updated link to signalschablone; automated testing and releasing