

Dutch signals version RT include ATB pulse codes

Signal book for railworks

P-signals – block signals

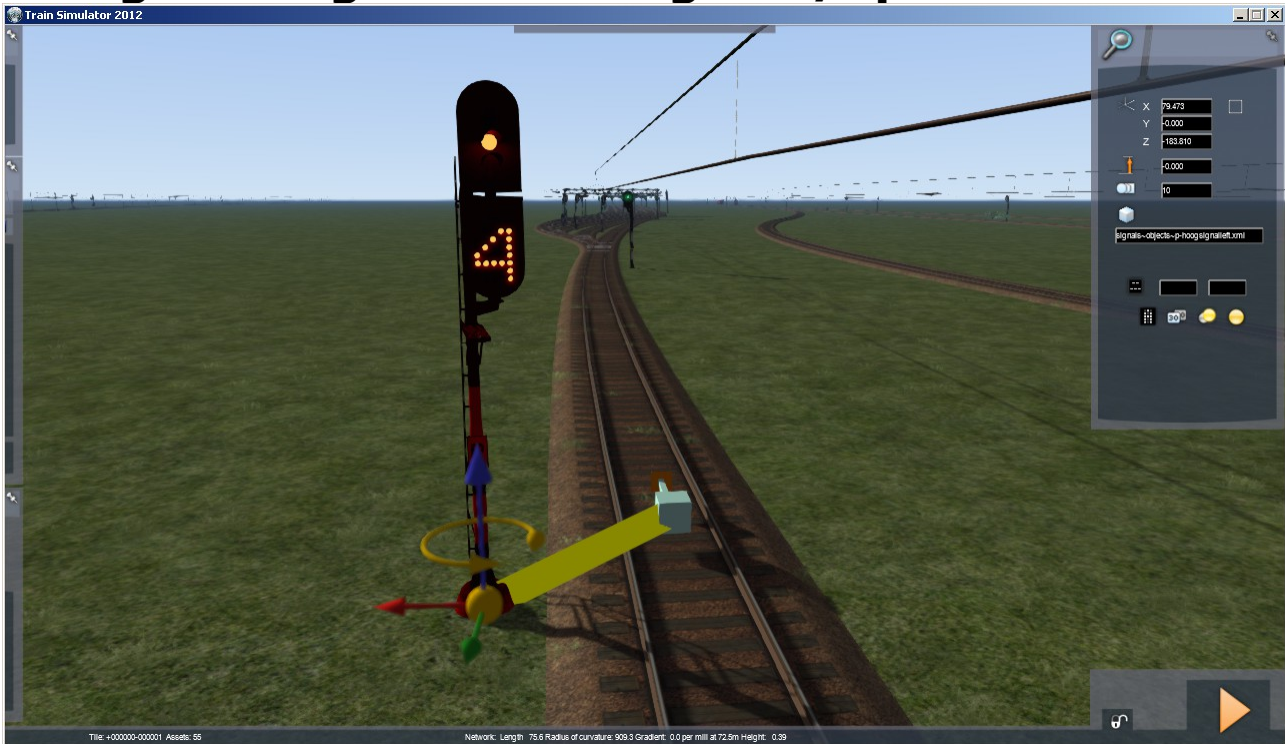


only showing green/yellow and red signals

P_Signal_LEFT_Fopix3d
P_Signal_RIGHT_Fopix3d

- **For single lines only**
- **only block detection**
- **no speed indication**

P-signals high – block signals/speed detection

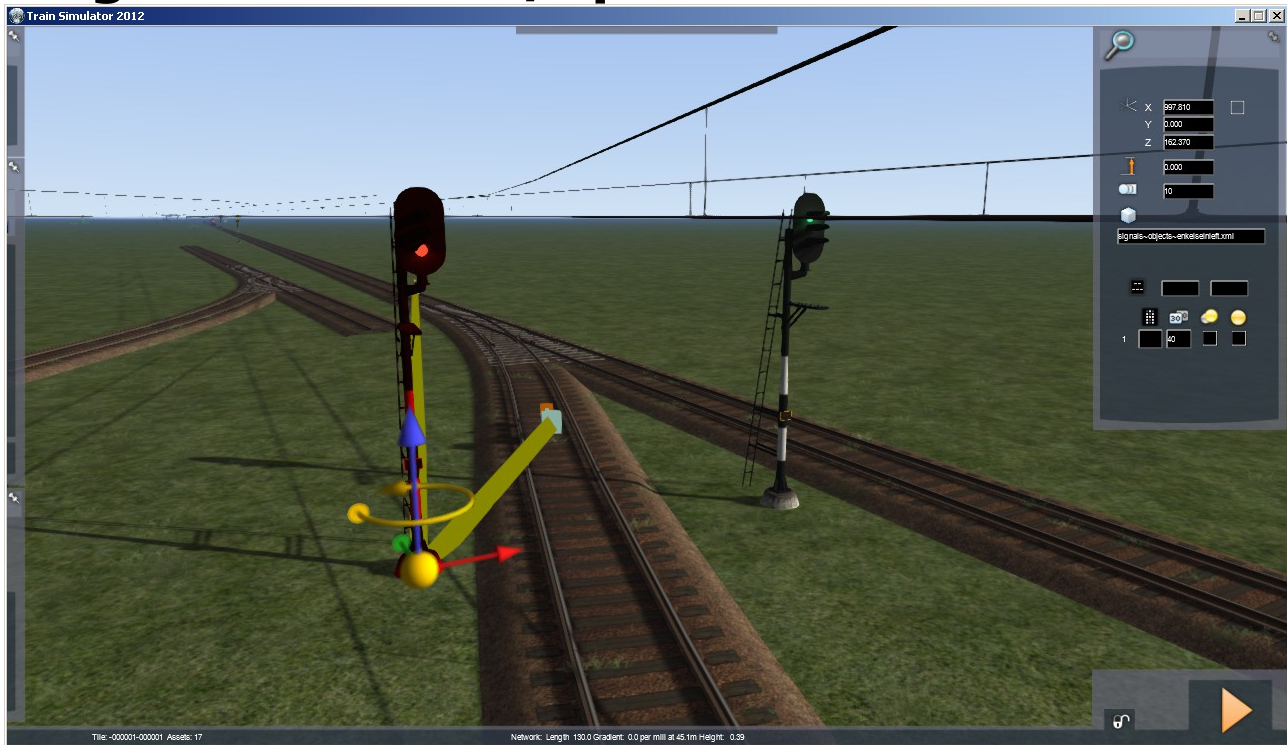


Detection for speed limits send by home signals. With a maximum of 80 kmh higher limits are steady green light.

P_Hoog_LEFT_Fopix3d
P_Hoog_RIGHT_Fopix3d

- **For single lines only**
- **block detection**
- **speed detection send by home signal**
- **give speed limit information with minimum of 40kmh maximum 80kmh**
- **no flashing yellow or green possible**
- **ATB signaling possible**
- **Best usage around stations/before entry low speed situations or junctions.**

Signals – 2 links/speed detection 40kmh



**comment: Left signal has 40kmh right signal use 80 kmh
right signal dont need an restriction because right = main line**

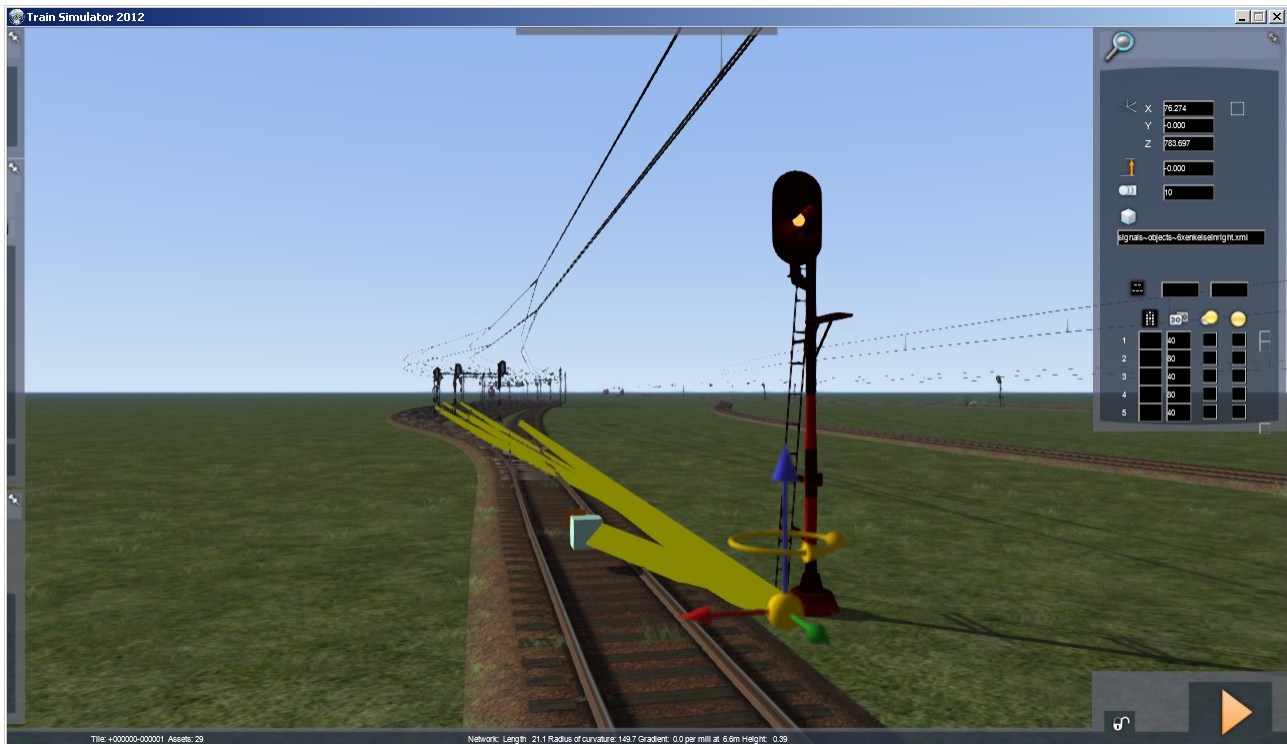
NL_2X_Signal_LEFT_Fopix3d
NL_2X_Signal_RIGHT_Fopix3d

- For single junctions only
- Exit to main line
- Need always speed instructions
- Speed 40kmh = flashing green
- Speed above 40 = green
- ATB signaling possible

p-sign deactivated after route load

send speed limit information. No max speed

Signals – 3 and more links/speed detection 40kmh



comment:

left track dont need an restriction need the same speed as mainline.

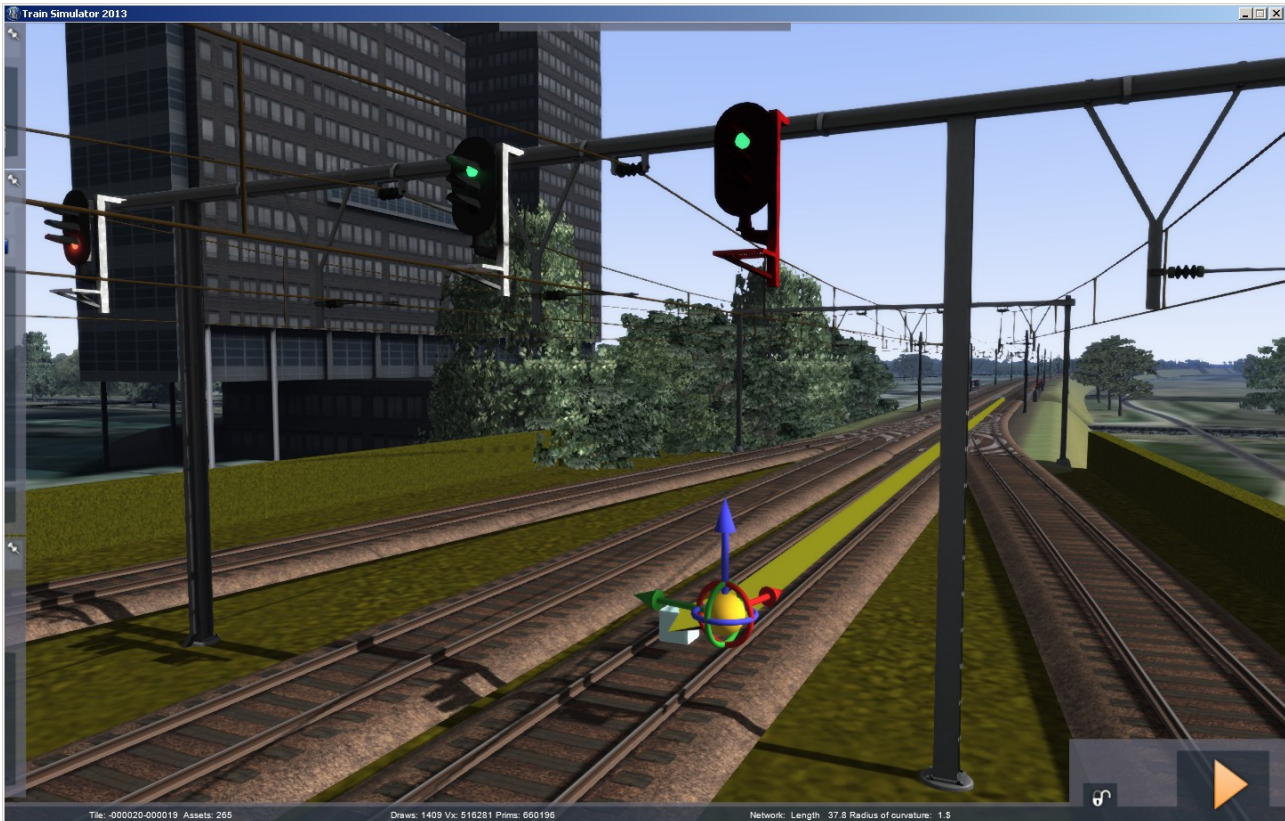
NL_3X_Signal_LEFT_Fopix3d
 NL_3X_Signal_RIGHT_Fopix3d
 NL_4X
 NL_5X
 NL_6X
 NL_7X
 NL_8X
 NL_9X
 NL_10X
 NL_11X
 etc

- For 2 lines
- Exit to single line
- Need always speed instructions
- Speed 40kmh = flashing green
- Speed above 40 = green
- ATB signaling possible

p-sign deactivated after route load

send speed limit information. No max speed

Signal Head – 3 and more links/speed detection 40kmh



comment:

Guarding junctions around stations

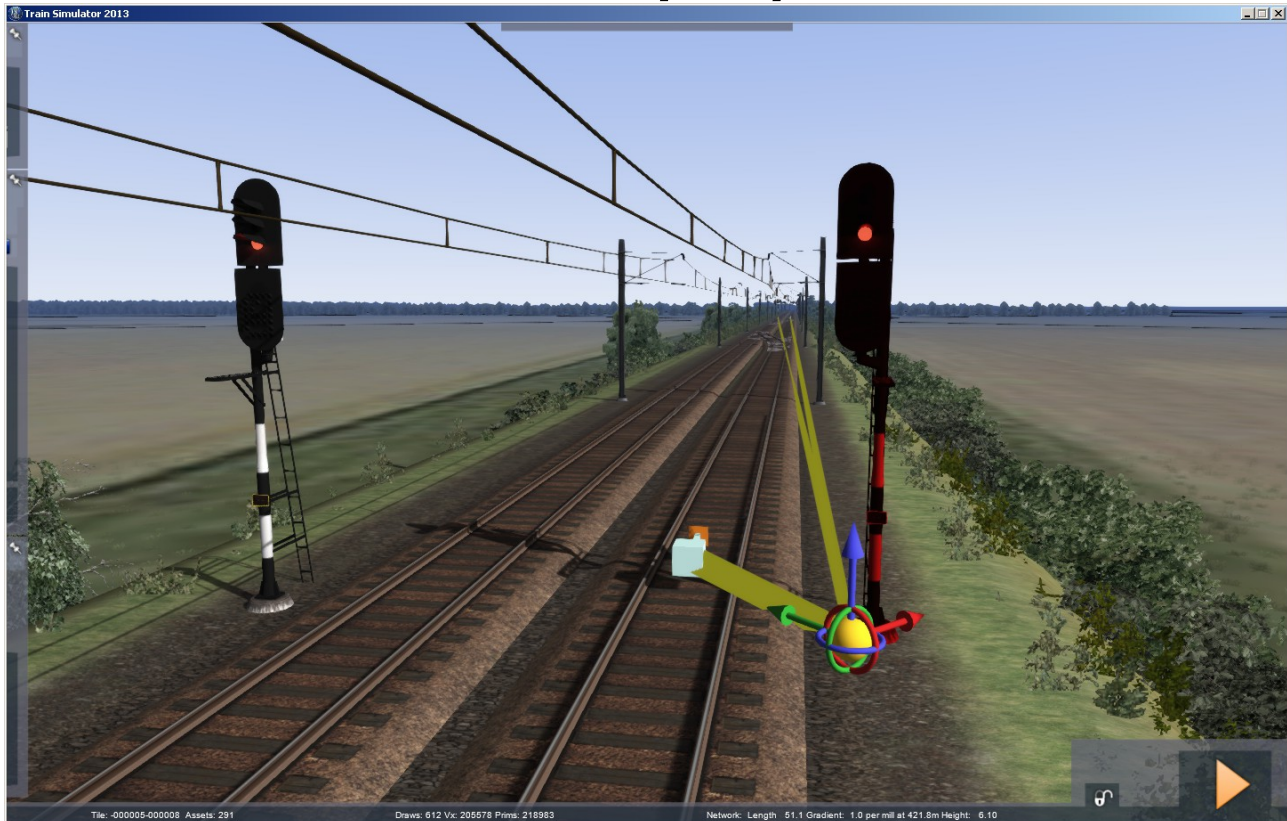
NL_3X_Signal_DRC1_Fopix3d
NL_4X
NL_5X
NL_6X
NL_7X
NL_8X
NL_9X
NL_10X
NL_11X
etc

- **For 2 or more lines**
- **Exit to single line**
- **Speed 40kmh = flashing green**
- **Speed above 40 = green**
- **ATB signaling possible**

p-sign deactivated after route load

send speed limit information.

Signals – 3 and more links/speed detection 40/60/80kmh



comment:

**Only speed instructions needed for link behind curved junction.
Used on mainlines and provide correct maximum junction speed**

NL_3X_Hoog_Signal_LEFT_Fopix3d
NL_3X_Hoog_Signal_RIGHT_Fopix3d
NL_4X
NL_5X
NL_6X
NL_7X
NL_8X
NL_9X
NL_10X
NL_11X
etc

- For 2 lines or more
- For speeds higher than 40kmh
- Exit to single line
- Need always speed instructions
- Speed detection for junctions
- ATB signaling possible

p-sign deactivated after route load

send speed limit information. To next P signal

Ground signal – 40kmh

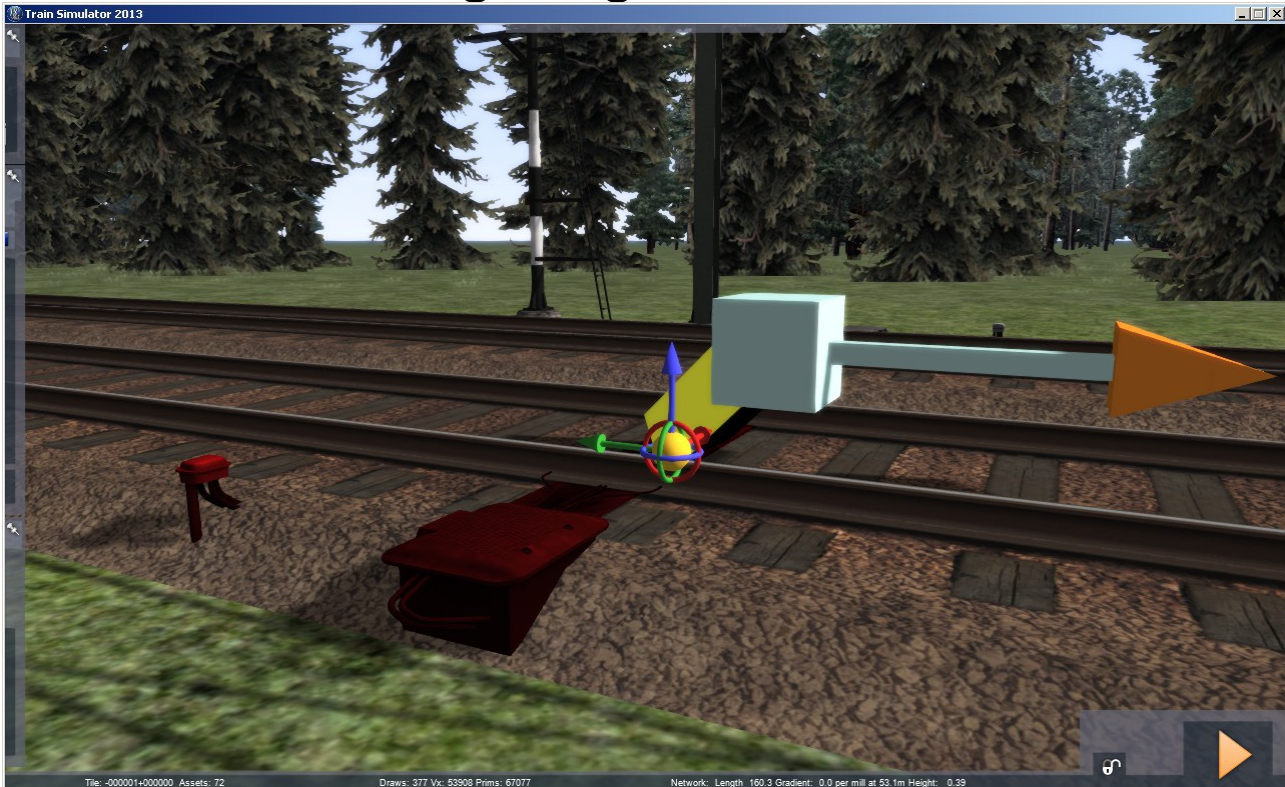


Only for stations, yards or low speed limit sections or counterwise from driving main line direction

NL_1X_Signal_DWERG_Fopix3d
NL_2X_
NL_3X_
NL_4X_
NL_5X_
NL_6X_
NL_7X_
NL_8X_
ETC ETC

- **Stations or yards**
- **Max speed 40 kmh**
- **ATB-vv signaling possible**
- **Yellow flash driving on sight possible**

ATB-eg – Signal connector

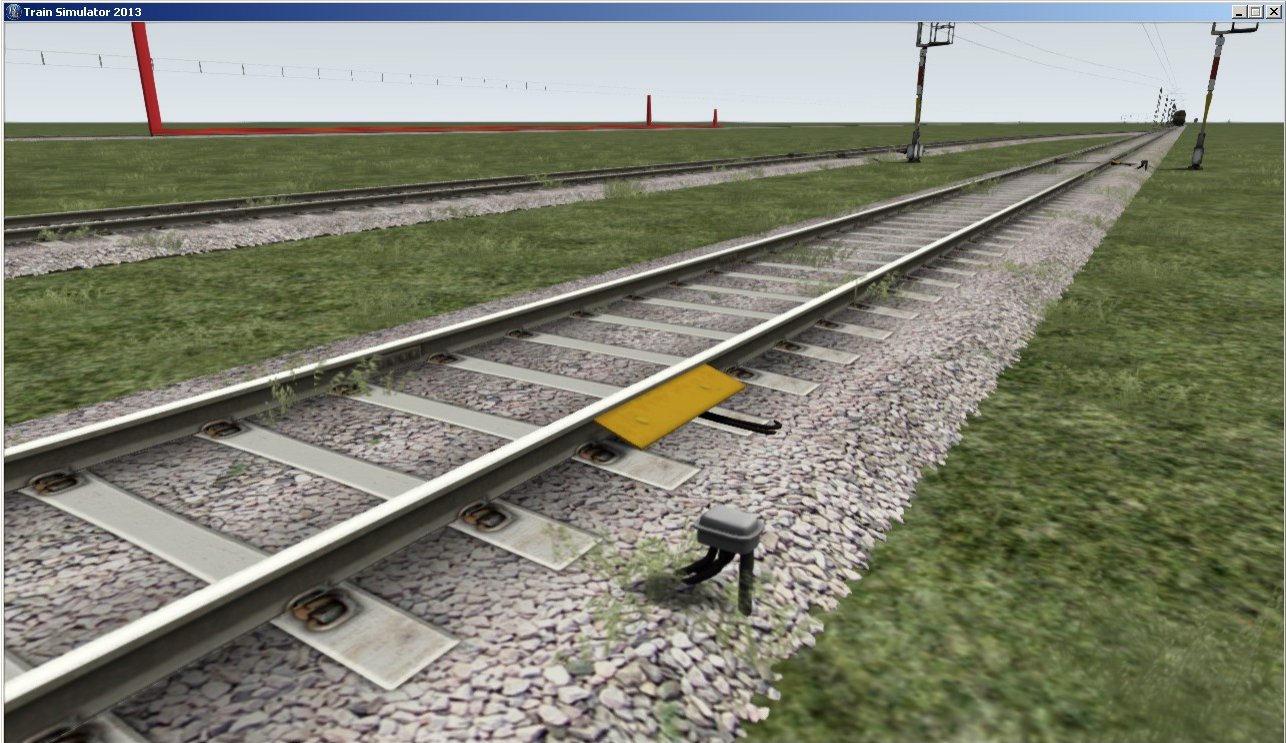


Detection of speed changes and red or yellow signals and trigger train cabins

NL_ATB-EG_rel

- **Behind signal**
- **Only mainline or stations with high speed limits**
- **Trigger traincabin**

ATB-VV – 3 phase connector



For stations or low speed sections. Active on red signal protect Red signals and under 40 kmh

NL_ATB-VV_120M
NL_ATB-VV_30M
NL_ATB-VV_3M

- Need always correct distance from signal
- Placed always on right side of the tracks
- Trigger traincabin brake curve program if signal = red / blocked
- Refresh able on signal status change
- Not for mainline use

Vertrek Signal



For stations only

NL_Signal_Vertrek_Right_Fopix3d
NL_Signal_Vertrek_LEFT_Fopix3d
NL_Signal_Vertrek_Right_LH_Fopix3d
NL_Signal_Vertrek_LEFT_LH_Fopix3d
NL_Signal_Vertrek_Fopix3d

- **For stations only**
- **No special instructions needed**
- **only for 1 single line**
- **Always linked before exit signal**

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