

```
(*Camera calibration*)
(*Uses train 1 and train 2 for Y-position calibration*)
if Cam_Data.Btn_Calibr_Track_Nr then
  Cam_Data.Train1_Y_Pos:=ABS(Train1_Y_Pos);
  Cam_Data.Train2_Y_Pos:=ABS(Train2_Y_Pos);

  if ABS(Train1_Y_Pos) >= Track1_Calibration_Value and ABS(Train2_Y_Pos) >= Track2_Calibration_Value then

    Cam_Data.Track_Number_Calibration:=True; (*The position of the camera is correct, the green lamp lights*)
    Cam_Data.Train1_Y_Pos:=ABS(Train1_Y_Pos);
    Cam_Data.Train2_Y_Pos:=ABS(Train2_Y_Pos);

  else
    Cam_Data.Track_Number_Calibration:=false; (*The position of the camera is incorrect, the red lamp lights*)
  End_if;
else
  Cam_Data.Train1_Y_Pos:=0;
  Cam_Data.Train2_Y_Pos:=0;
  Cam_Data.Track_Number_Calibration:=false;
End_if;
```