

## 6.0 Commissioning instructions DR5013 with sensor tracks S0,S1,S2,S3 (with connection to PC)

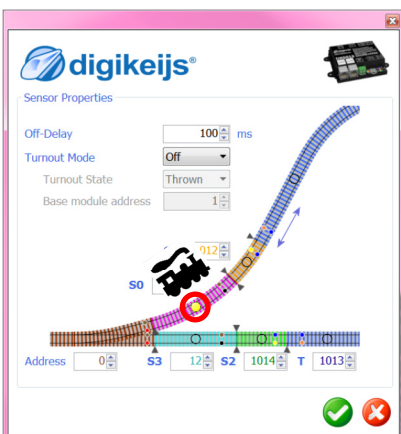
To check the connection of the DR5013, use this procedure. This can be used to test if the wiring is correct and there is no fault. To do this, the DR5013 must be **connected** to the PC **via USB** and the configuration tool must be started. **Note:** A connection **via USB** to the **DR5000** or **any other digikeijs device** connected via USB must be **disconnected** first. If this note is observed, the test can be carried out without any problems even with active track voltage.

### Test sequence of the feedback units S0,S1,S2,S3 using the App:

Place the locomotive on the sensor track **S0**.

The feedback **S0** in the app now shows the assignment (**yellow dot**).

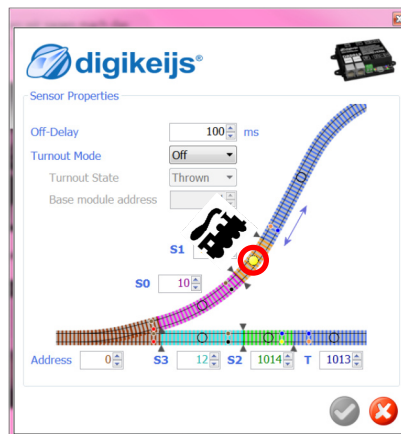
—> If no busy message is displayed, the wiring or the address assignment in the app of **S0** must be checked.



Place the locomotive on the sensor track **S1**.

The feedback **S1** in the app now shows the assignment (**yellow dot**).

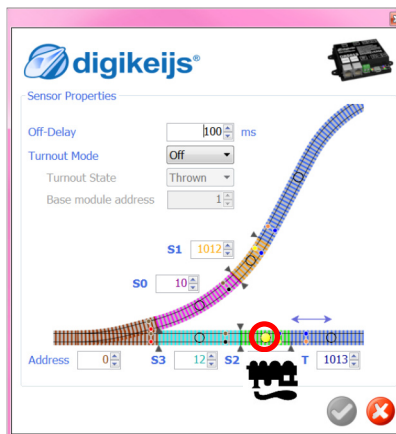
—> If no busy message is displayed, the wiring or the address assignment in the app of **S1** must be checked.



Place the locomotive on the sensor track **S2**.

The feedback **S2** in the app now shows the assignment (**yellow dot**).

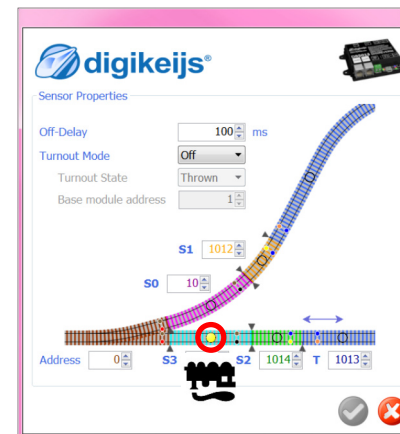
—> If no busy message is displayed, the wiring or the address assignment in the app of **S2** must be checked.



Place the locomotive on the sensor track **S3**.

The feedback **S3** in the app now shows the assignment (**yellow dot**).

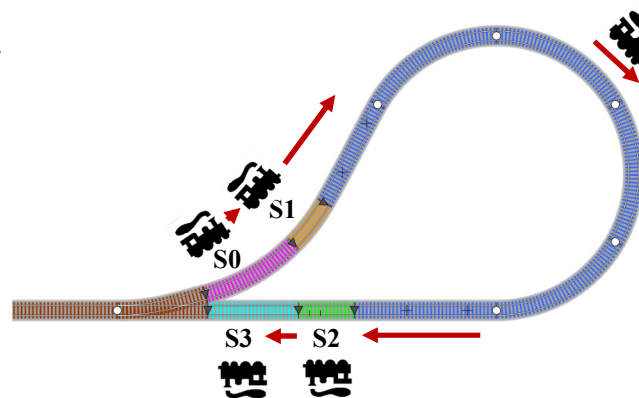
—> If no busy message is displayed, the wiring or the address assignment in the app of **S3** must be checked.



At the end of the test series, place the locomotive on the sensor track **S0** and drive in direction **S1** over the double track separation point into the reversing loop track (**T**).

If the **blue** LED **does not** light up or a **short circuit** is triggered at the DR5013, the track connections at the track input of the DR5013 must be replaced.

Finally go through the complete reversing loop again to test the connection completely: **S0 -> S1 -> T -> S2 -> S3**



Blue LED Indication of polarity of the reversing loop track

## 6.1 Commissioning instructions DR5013 with sensor tracks S0,S1,S2,S3 (without connection to PC)

To check the connection of the DR5013 without a USB connection to the PC, use this procedure. This can be used to test if the wiring is correct and there is no error.

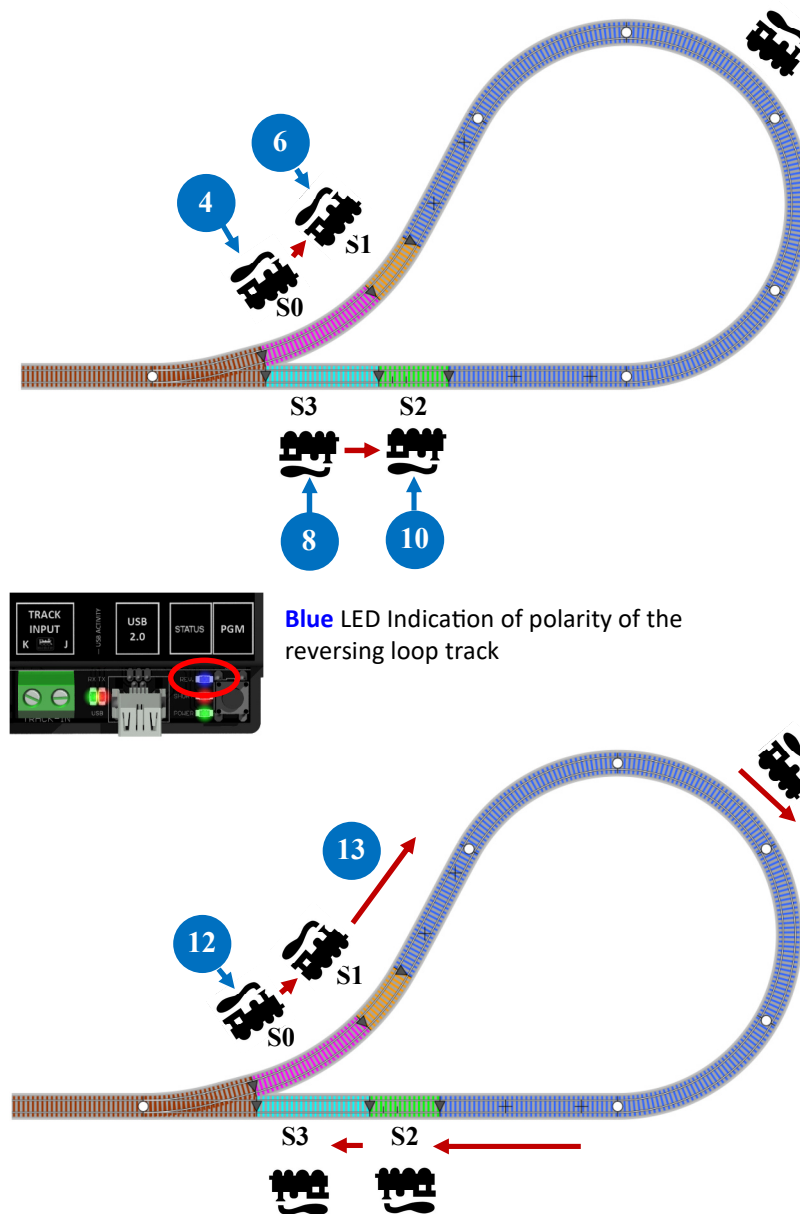
### DR5013 Check connection:

This allows you to test whether S0, S1, S2 and S3 have been wired correctly:

- 1) Switch off track voltage.
- 2) Remove all locomotives and other loads from the sensor tracks (S0, S1, S2, S3).
- 3) Switch on track voltage.
- 4) Place the locomotive on the sensor track S0 and observe whether the **blue LED lights up**. If the **blue LED** does not light up, check the wiring or the address assignment in the app of S0!
- 5) Remove locomotive from sensor track S0.
- 6) Place the locomotive on the sensor track S1 and observe whether the **blue LED lights up**. If the **blue LED** does not light up, check wiring of S1!
- 7) If both tests (4. & 6.) show that the **blue LED** is lit, the sensor tracks S0 and S1 are wired correctly.

The next step is to perform the function test with the sensor tracks S2 and S3. can be carried out.

- 8) Place the locomotive on the sensor track S3 and observe whether the **blue LED is not illuminated**. If the **blue LED lights up**, check the wiring or the address assignment in the app of S3!
- 9) Remove the locomotive from the S3 sensor track.
- 10) Place the locomotive on the sensor track S2 and observe whether the **blue LED is not illuminated**. If the **blue LED lights up**, check the wiring of S2!
- 11) If both tests (9. & 10.) show that the **blue LED** is not lit, the sensor tracks S3 and S2 on the DR5013 are wired correctly.
- 12) At the end of the test series, place the locomotive on the sensor track S0 and drive in direction S1 over the double track separation point into the reversing loop track (T). If the **blue LED does not** light up or a **short circuit** is triggered at the DR5013, the track connections at the track input of the DR5013 must be replaced.
- 13) Finally go through the complete reversing loop again to test the connection completely: S0 -> S1 -> T -> S2 -> S3



Blue LED Indication of polarity of the reversing loop track