



YAMoRC®
DIGITAL

YD7432 REVERSER

REVERSE LOOP MODULE QUICK START



(2025-04-30)



Designed by Karst Drenth
Made in Germany
Assembled in NL

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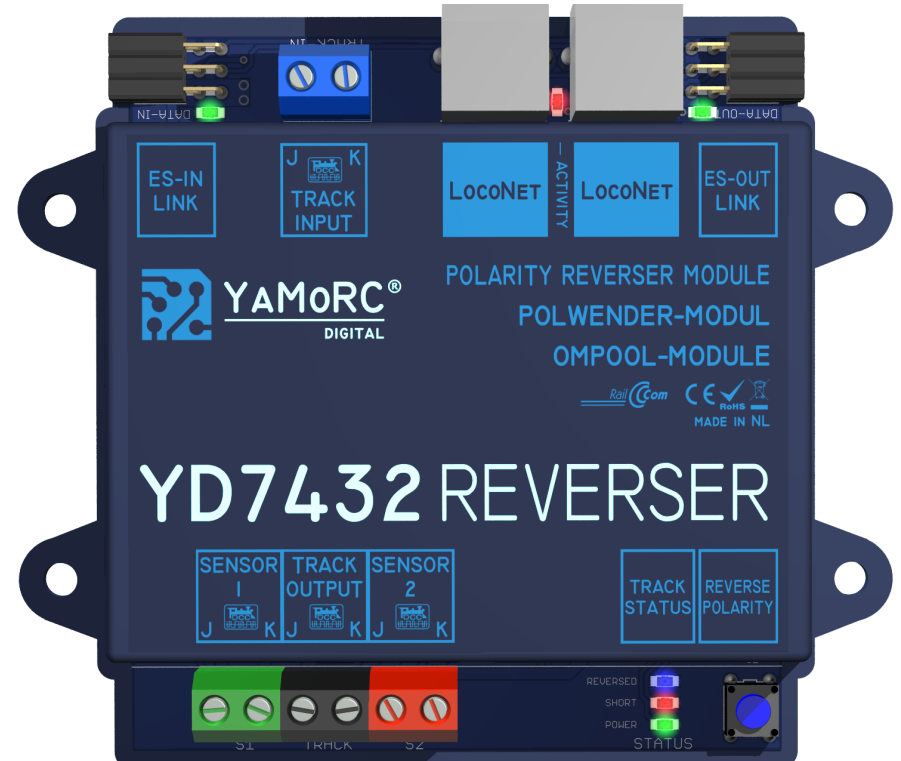
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Description

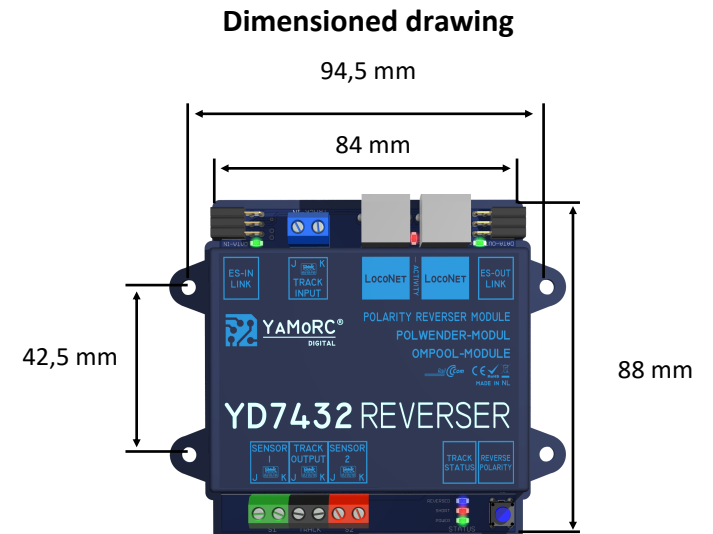
- The **YD7432** is a short-circuit-free reverse loop module with a maximum continuous output power of 2A.
- The reverse loop is divided into three sections (Sensor1, Sensor 2 and Track Out).
- The connections for sensor 1 and sensor 2 are integrated in the module, so no additional feedback devices are required to control the YD7432 are required.
- The reverse loop sections Sensor 1, Sensor 2 and Track Out can be monitored with Railcom® in addition to the "normal" sensors.
Attention! The digital formats mfx®, Motorola and similar are not supported!
- The **YD7432** is configured "out of the box" so that it operates short-circuit-free.
- The "ES-OUT-Link" connection enables the YD7432 to be fully configured. This requires a YD9100 configuration module, for example.
- The polarity of the Track Out can be changed using a DCC accessory address (points address) or manually using the button on the **YD7432**. If the polarity is to be changed via DCC accessory addresses, a connection via LocoNet® is required.
- The **YD7432** can report its current status to the control centre via LocoNet®.

Technical data

Continuous load capacity Track Out	2A
Maximum load capacity for 5 seconds	3,5A
Connection options	ES-IN-Link, LocoNet®, Track In, Sensor 1, Track Out, ES-Out-Link Sensor 2
Dimensions of the housing	84 mm x 88 mm x 22 mm
Hole spacing	94,5 mm, 42,5 mm

Mounting

The YD7432 is mounted using the four mounting holes on the side of the housing.



Important notes:

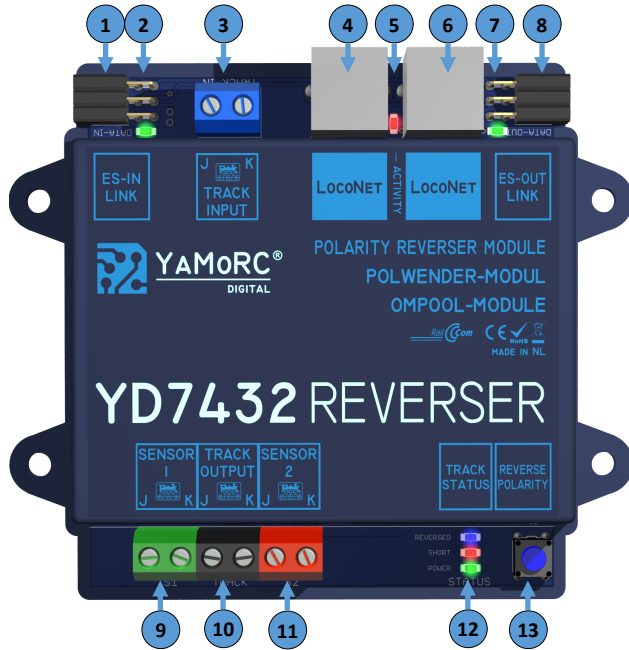
- The YD7432 is intended exclusively for operation on an electric model railway.
- The YD7432 is not a toy and is therefore not suitable for children under the age of 14.
- Never operate the YD7432 unattended.
- Power sources (power supply units, transformers, etc.) must comply with the current VDE/EN and CE standards.
- The power sources used (power supply units, transformers) must comply with protection class 2. Failure to do so may result in serious damage to the YD7432. The power sources must be labelled with this symbol.



Further information on the protection class can be found here, for example: <https://www.google.com/search?q=schutzklasse+2&oq=schutzklasse+2>

- The voltage source (DC) must not exceed a maximum power of **60W**.
- Voltage sources must be fused in such a way that a cable fire cannot occur in the event of a fault.
- A common earth connection of different voltage sources or circuits is not permitted. This will destroy the YD7432.
- It is essential to ensure that the wiring cross-section of the individual connections is sufficient.
- The connection terminals are designed for a cross-section of 0.75 mm².
- Connection work must always be carried out in a de-energised state. Disconnect or switch off the control centre.
- A USB isolator must be used for configuration via ES-Link.
- The YD7432 must never be installed near strong heat sources, such as radiators or places exposed to direct sunlight be installed. Therefore, install the YD7432 in a location with sufficient ventilation to dissipate the waste heat.
- The YD7432 was developed exclusively for dry indoor spaces. Therefore, do not operate the YD7432 in environments with large fluctuations in temperature and humidity or outdoors.
- Do not attempt to open the YD7432. Improper actions can lead to the destruction of the YD7432.

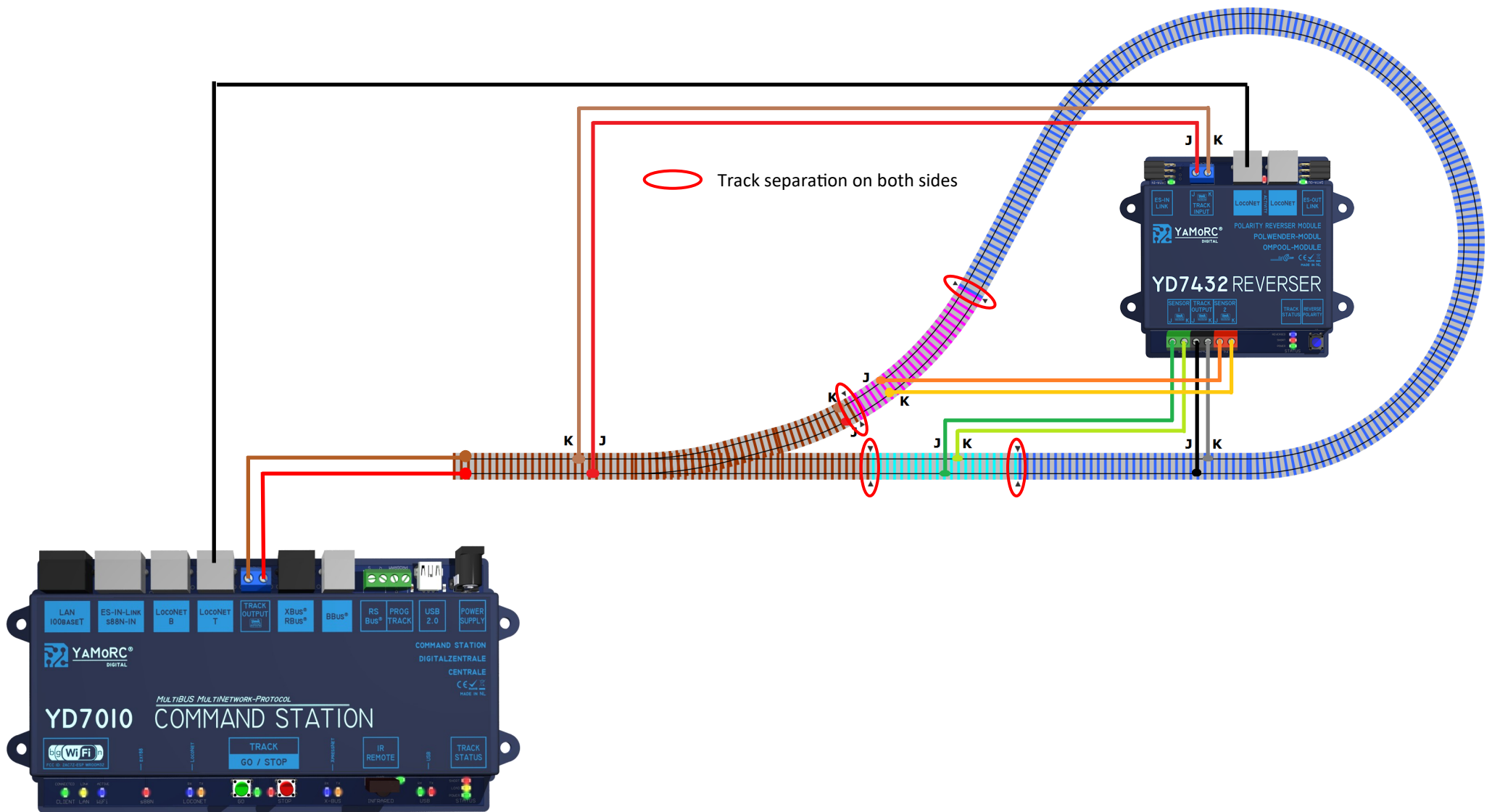
Hardware overview



1	ES-IN Link	Connection for further modules with "ES-Link".
2	Green LED	Display Programming process via "ES-IN Link" is running or ES-Link Activity
3	Track Input	Connection for the power supply from the control centre or booster (Track Out)
4	LocoNet® Connection 1	A LocoNet® connection cable can be used to establish a connection to the control centre via Loconet® T or B.
5	Red LED	Load indicator of the feedback unit. The brighter the LED lights up, the higher the current that is drawn from the detected by the sensors.
6	LocoNet® Connection 2	A LocoNet® connection cable can be used to establish a connection to the control centre via Loconet® T or B.

7	Green LED	Display Programming process via "ES-IN Link" is running or ES-Link Activity
8	ES-OUT Link	Connection for further modules with "ES-Link".
9	Sensor 1 J K	Sensor track 1 connection
10	Track Output J K	Sweeping loop track connection
11	Sensor 2 J K	Sensor track 2 connection
12	Status display	<p>Status LED</p> <ul style="list-style-type: none"> Blue LED — Out of phase reverse loop direction 1 Blue LED * On phase position reverse loop rotated Red LED * On Short circuit Green LED **** Green LED flashes Operating voltage present
13	Taster Reverse Polarity	Button for switching the polarity

Connection example



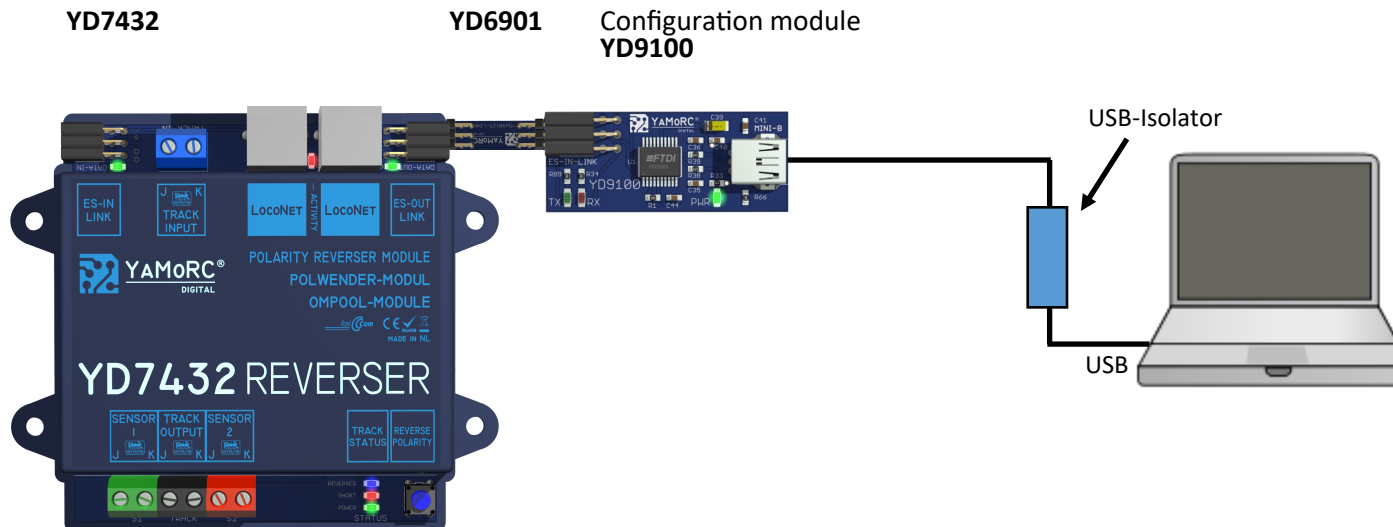
Achtung!

Alle Anschlussarbeiten müssen immer im **spannungslosen** Zustand erfolgen. Spannungsversorgung vom Netz trennen und die Zentrale abschalten!

Connect the YD 7432 to the YD9100 (configuration, firmware update)

Please note important information:

- **ALL** connections carrying voltage must be disconnected from the module (track input)!
- The module that is to be configured or receive a firmware update must be connected to the PC via USB on its own. If this is not possible and other devices are connected via USB, a **USB isolator** must be used between the USB port of the PC and the YD9100.
- Before updating the firmware, it is essential to back up the current configuration using the export function.
- Once the firmware update has been successfully completed, disconnect the module from the YD9100. After approx. 30 seconds, the module can be reconnected to the YD9100 to restart it.
- It is essential to check the configuration before recommissioning the module. If the configuration is not correct, the saved configuration can be imported back into the module using the import function.
- Only disconnect the YD9100 from the module and restore the connections after the configuration has been checked.



The YD9100 is connected to the desired module using the enclosed YD6901 adapter. Alternatively, for longer distances, the YD9100 can be between the modules, the YD9100 can be connected to the module to be configured using a YD6902ES-EXT adapter and a standard RJ45 cable.

Warranty

24 months warranty from date of purchase

Dear Customer,

Congratulations on your purchase from YaMoRC. YaMoRC's high quality products have been manufactured using modern manufacturing processes and have been subjected to careful quality control and tests.

Therefore, when purchasing a YaMoRC product, the company YaMoRC grants you a manufacturer's warranty of 24 months from the date of purchase in addition to the national warranty rights to which you may be legally entitled to, from your YaMoRC specialist dealer as contractual partner.

Warranty conditions:

This warranty applies to all YaMoRC products purchased from a YaMoRC dealer. Warranty services are only provided if proof of purchase is presented. Proof of purchase is the purchase receipt from the YaMoRC specialist dealer. It is therefore recommended to keep your purchase receipt safe.

Content of the guarantee/exclusions:

The warranty includes, at YaMoRC's discretion, the free repair or free replacement of the defective part, which can be proven to be due to design, manufacturing, material or transport faults. For this purpose, you must send the decoder to us properly stamped. Further claims are excluded.

The warranty claims are void:

1. in the case of general wear and tear at expected locations (e.g. screw terminals).
2. in the case of modification of YaMoRC products with parts not approved by the manufacturer.
3. in the case of modification of parts, especially by opening the housing.
4. if the product is used for purposes other than those intended by the manufacturer.
5. if the instructions given by YaMoRC in the operating manual have not been thoroughly read by the user & risked mis-use of the product.

The warranty period is not extended by the repair or replacement delivery. Warranty claims can only be made to your dealer enclosing any warranty certificate, proof of purchase and a description of the fault. Products sent directly to YaMoRC products will neither be treated nor returned free of charge.



Drenth Design & Consulting B.V.

Glazeniershorst 209

NL-7328 TJ APELDOORN

Liability: Drenth Design & Consulting B.V.

Phone: +31643392605

E-Mail: ddc@yamorc.com

Directors: Karst Drenth

Trade register: 72184728

VAT No/Tax ID: NL-859019901B01