

Quick start
RDI 3000

ti DualInventive
Ubiquitous Rail



1 BEFORE YOU START

1.1 What you need

- RDI 3000 and accessories
- User manual RDI 3000
- Certificate RDI 3000
- MTinfo 3000 app & login credentials

1.2 Safety



NOTE

Read all safety instructions in the User manual RDI 3000.



NOTE

Risk of explosion.
For how to use the detonator, refer to the manual of the detonator manufacturer.



WARNING

Do not look directly into the LEDs to avoid temporary blindness.



WARNING

Users with a pacemaker are not allowed to use the RDI 3000.

2 KEY SWITCH & DISPLAY

2.1 Key switch

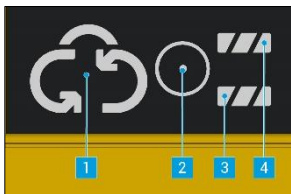


OFF: de-activated
(not on the track)

ON: activated
(placed on the track)

OPERATIONAL:
remote switching

2.2 Display



1. Cloud light
2. Activation button
3. Internal battery indicator
4. Main battery indicator

INDICATION	MEANING
Blue	Working properly
Red	Error or a low battery
Continuously illuminated (red & blue)	Device is online
Fade-in-fade-out (red & blue)	Device is offline

3 INSTALLATION



NOTE

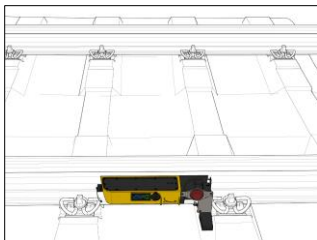
Inspect the RDI 3000 before installation.



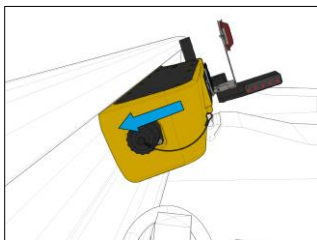
NOTE

Perform the functional test after installation.

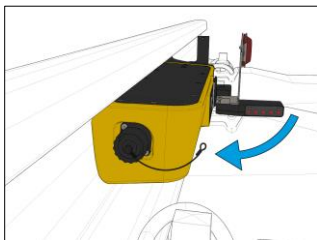
3.1 Placing the RDI 3000



1. Always place the RDI 3000 on the outside of the track and in between two sleepers.

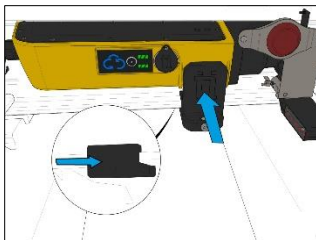


2. Place the RDI 3000 sloping and just below the rail head.



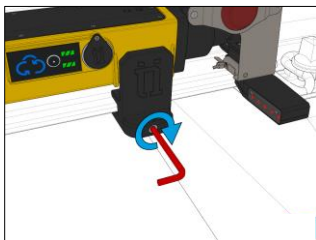
3. Clamp the RDI 3000 on the rail head.

3.2 Securing the RDI 3000

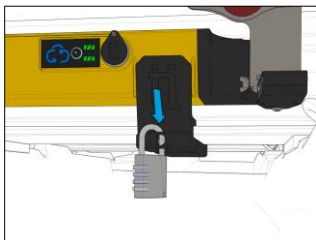


1. Place the clamp to the right side of the key switch.

If needed, remove ballast to create space.



2. Tighten the clamp with the red allen key until it is fastened securely and cannot be turned further.



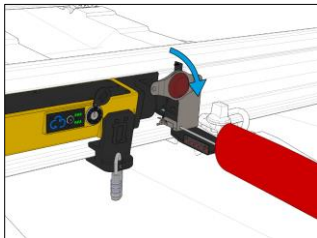
3. Place the 4-digit combination padlock, facing down.

3.3 Placing the flag



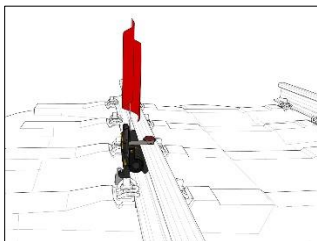
WARNING

When deployed, the flag and the LEDs of the RDI 3000 must be visible to a train driver.



1. Turn the key to **OFF**.

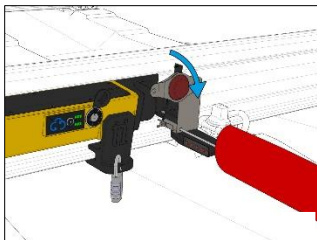
Place the flag in the tube next to the LED block and tighten the wing nut.



2. Turn the key to **ON**.

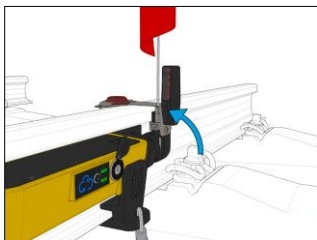
Check that the flag and LEDs are visible from a train driver's perspective.

3.4 Functional test



1. Turn the key to **OFF**.

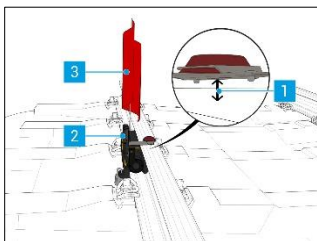
Check the real-time status in the app.



2. Turn the key to **ON**.

Check the real-time status in the app.



Repeat for **OPERATIONAL**.



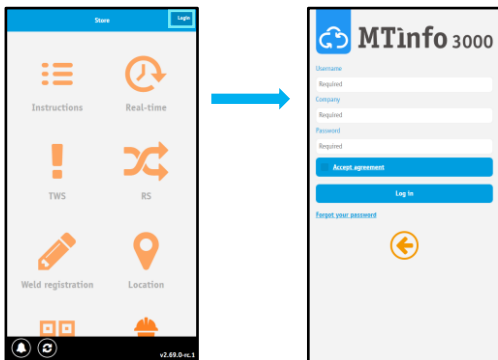
3. Check distance detonator plate and rail **(1)**:
5 to 10 mm

Check visibility **(2,3)** from the train driver's perspective.

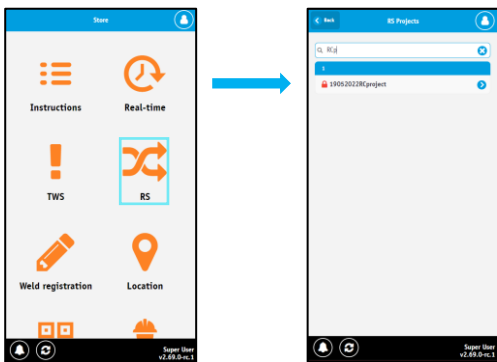
4 MTINFO 3000 APP

ICON	MEANING
	View messages sent by MTinfo 3000.
	Refresh window.

4.1 Sign in



4.2 Select project

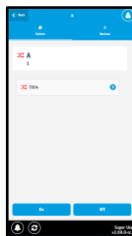


4.3 Switching

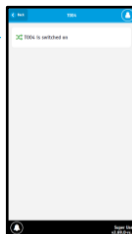
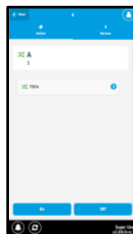


NOTE

- Switch the key to: **OPERATIONAL.**
- Switching protection zones on & off, consists of the same steps.



1. Select protection zone.
2. Click button 'On' or 'Off'.
3. Type 'on' or 'off'.



4. Enter PIN.
5. Click button 'Switch'.
6. Confirm.

5 WARNING & ERROR MESSAGES



NOTE

For all warning & error messages, check the User manual RDI 3000, section 'Troubleshooting'.

#	DESCRIPTION	SOLUTION
1027	An EEPROM (memory) error occurred.	Please try again. If this does not solve the issue, contact Dual Inventive.
1114	Device is not attached to the track.	Check the position of the device and try again. If this does not solve the issue, contact Dual Inventive.
1121	Self-test of the LEDs failed.	Please try again. If this does not solve the issue, contact Dual Inventive.
1122	Detonator is not in a valid position.	Please check the detonator and the lever it is attached to and try again. If this does not solve the issue, contact Dual Inventive.

#	DESCRIPTION	SOLUTION
1123	Whole LED unit defect.	Please try again. If this does not solve the issue, contact Dual Inventive.
1127	The device has detected that the LED block is positioned incorrectly in relation to the lever.	Please check the RDI. It has detected that the LED block is positioned incorrectly in relation to the lever.
2001-027	Internal battery level is critical.	Please charge the RDI or connect a main battery to the RDI.
2001-028	Internal battery level is empty.	Please charge the RDI or connect a main battery to the RDI.
2001-031	Main battery level is critical.	Replace the battery.
2001-032	Main battery level is empty.	Replace the battery.
2001-067	Two LED groups are defect.	Please try again. If this does not solve the issue, contact Dual Inventive.
2001-068	One LED group defect.	Please try again. If this does not solve the issue, contact Dual Inventive.



info@dualinventive.com
www.dualinventive.com

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