

R4 Inline Isolation Device Instructions

The R4 inline box is considered as a Personal Protective Equipment (PPE) and should be used in close proximity of the boilermaker.

To ensure and confirm safe output of the welding machine, place electrode onto the work piece after every weld completion before changing electrodes.

Mechanical connectors: Units are supplied without mechanical connectors as different welding operators use different connections. Please attach the appropriate connectors to suit your welding machine (available from your nearest welding supplier) to the ends of the cable from the R4 unit. Male end being on the input and female end being on the output (refer to diagram on other side).

Connect Unit: With mechanical connectors attached on correct sides connect R4 box as follows;

- Connect output welding lead of welding machine with input of R4 unit (Left Hand Side with front facing you)
- Connect output of R4 unit (Right Hand Side with front facing you) with electrode holder welding lead.
- Connect earth clamp of R4 unit with welding earth clamp or metal working structure

Ensure welding output of welding machine is supplying more than 20V OCV.

Manual operation triggering is available via the red button on the box.

Verification and Programming the trigger to the R4 unit

1. With the welding machine turned on, a green light on the R4 unit will confirm power is supplied to the unit.

To program the trigger to the unit

2. Press and hold the blue button on the ZRID R4 unit (Red light should turn on).
3. Press the trigger 3 times (ensure trigger light is turned on each time).
4. When constant red light is on the receiver, release button. To confirm if trigger is coded, press trigger button to see if red light flashes momentarily on the unit (ensure electrode is not near work piece as you may start the welding process)

If the blue button on the ZRID unit is held for more than 5 seconds, code of trigger is deleted from the ZRID unit.

Note: Trigger has three operational modes via selection of dip switches on the PC Board of the trigger, 0 - instantaneous, 1 - time delay, 2 - double press.

Activation times: Optional latch-in times (0.5, 1, 2, 3 seconds) available via the middle 2 dipswitches inside the left hand side cover of the R4 unit. Manufacturer default setting is 2 seconds.

TROUBLESHOOTING

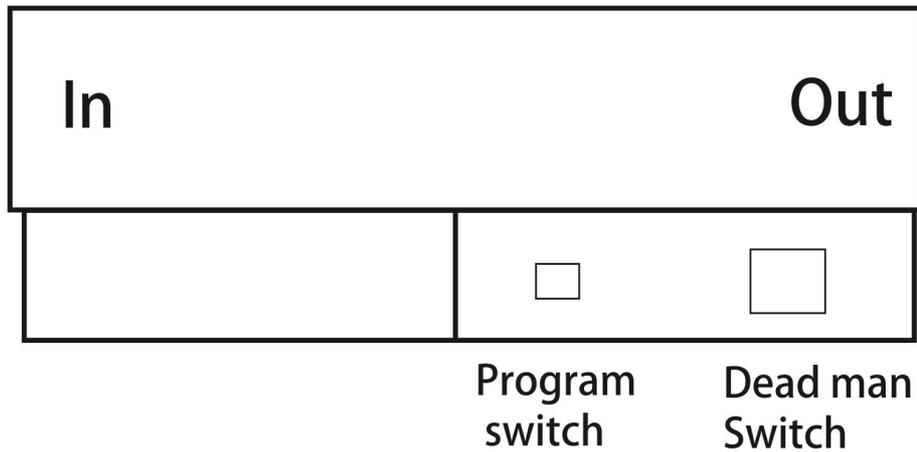
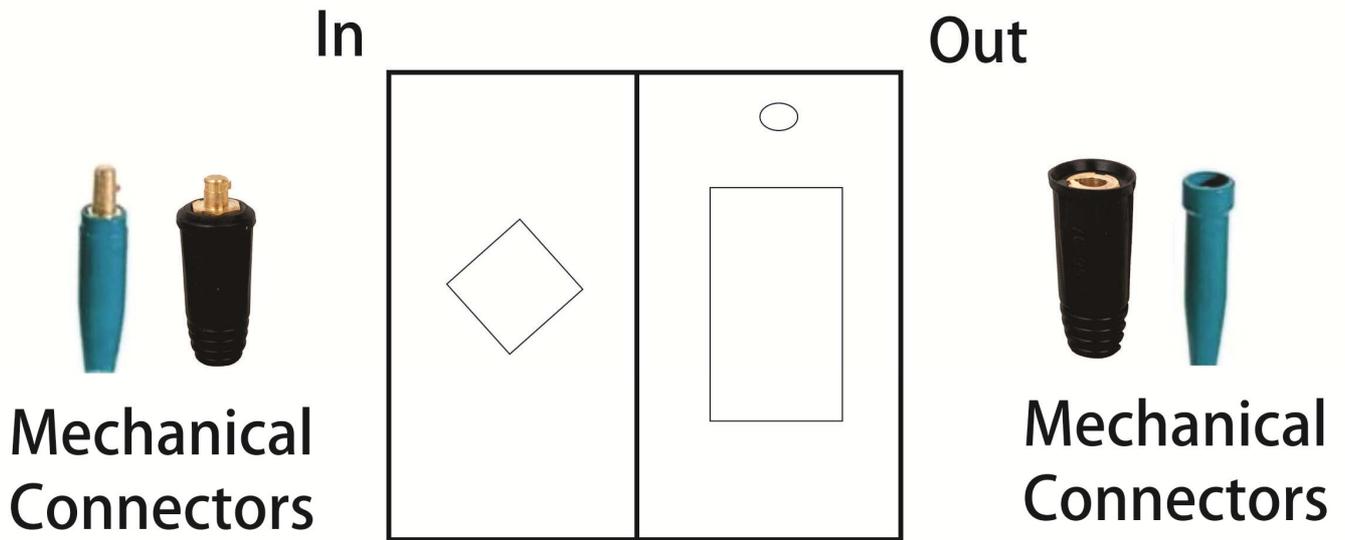
Light Indication:

- Green: Unit is powered up
- Red flashing: output is active
- Orange flash: fault in the sensing system (cannot start arc).
- No light - ensure output of welder is supplying a voltage greater than 20V

Handpiece Trigger: A light on the trigger indicates both battery level and transmission function. If the trigger doesn't operate the ZRID unit, try reprogramming or an alternative trigger.

Note: The ZRID unit will only accept the key from the assigned trigger and exclude all others, to assign a different trigger see programming. If transmission length has decreased, the transmitter battery requires replacing.

Operation and use: The zRID uses magnetic sensing for operation, before using the device, the installer must evaluate the potential electromagnetic problems that may arise in the surrounding area. The user is responsible for the installation and the use of the equipment according to the manufacturer's instructions.



ZRID R4 Inline connection diagram

