

INSTALLATION DATA SHEET

Isolator / Disconnect Check Part No. RL-24i



Connect **REMLIVE RL-24i** to the **OUTGOING** side of the Isolator / Circuit Breaker, making sure that the connections are electrically and mechanically sound and in accordance with current regulations for electrical installations. The **REMLIVE RL-24i** has embedded 50mA fuse link protection up stream of internal surge suppression. Dependent on the application it may be necessary to fit external fuse protection, typically 60mA rapid acting fuses.



**CAUTION, RISK OF
ELECTRIC SHOCK.**

WARNING! DO NOT FIT REMLIVE RL-24i IF THE UNITS ARE DAMAGED IN ANY WAY. LIVE EQUIPMENT CAN KILL. OTHER SAFETY PROCEDURES STILL APPLY. TEST BEFORE TOUCHING.

IF THE EQUIPMENT IS USED IN A MANNER NOT SPECIFIED BY THE MANUFACTURER, THE PROTECTION PROVIDED BY THE EQUIPMENT MAY BE IMPAIRED.

REPLACE the **REMLIVE RL-24i** unit if **EITHER** of the two sets of **TWO FLASHING INDICATORS FAIL TO FLASH** approximately every **1.5 SECONDS** when a live supply is connected, unless they have been deliberately switched to the OFF position, in which case only the phase indication LED's should be operational.

SUPPLY DETAILS			
AC Voltages (50/60Hz) (Continuous)		DC Voltages (Continuous)	
Minimum	Maximum	Minimum	Maximum
24	1,000	26	1,000
Maximum Rated Current 20mA			

If uncertain about any application or aspect of fitting or operating **REMLIVE RL-24i**, contact the supplier. No serviceable parts inside, in the event of failure please contact your supplier.

THIS EQUIPMENT MUST BE EARTHED.

On 3 Phase installations the Neutral connection is Optional, however should two phases fail, the indicators will cease to operate if Neutral is NOT USED. REMLIVE Limited strongly recommend the use of NEUTRAL and / or EARTH connections to ensure 100% availability of the REMLIVE Warning Indicator. If a Neutral connection is not available, the Neutral connection can be connected to Earth, however, advice from a qualified electrical engineer should be taken before connecting in this way.

With Neutral & Earth connected, the Neutral LED and Flashing LED's will illuminate when Neutral to Earth exceeds 24 volts, even with all phases off. Effectively monitoring the Neutral voltage when phases have been correctly isolated.

CONNECTION DETAILS
1 DC & Earth
1 Phase & Earth
1 Phase, Neutral & Earth
3 Phase & Earth
3 Phase, Neutral & Earth

DC APPLICATIONS

For DC applications external 500mA Medium or Time Delay fuses rated to the voltage of the application shall be used. REMLIVE recommend using L1-L2 with N attached to either a 0V bus or to Earth. Where the circuit is overvoltage category II, no connection shall exceed 600V Line to Neutral, in the case of DC no connection shall exceed 600V Line to Earth. This shall be reduced to 300V for overvoltage category III circuits. Please contact REMLIVE for further advice if required for your application.

INSTALLATION

To mechanically install **REMLIVE RL-24i** simply clip the Main Panel Unit onto Din Rail (Top Hat). Fit Door Unit via 30.5mm hole, secure with locking nut and plug the RJ45 connector into the Main Panel Unit front facia socket.

The equipment shall be connected to the supply using suitable wiring of at least 1mm², with insulation rated to the voltage of the system being monitored.

Cables must be secured to a fixed point in such a way that they are unable to become loose through pulling, vibration or movement. Where cables enter the wider enclosure, a suitable cable gland or other appropriate restraint shall be used.

A suitable disconnect device shall be installed in a location readily accessible and visible to the user. The disconnect device must be rated according to the load present on the circuit monitored by the REMLIVE warning indicator.

STANDARDS

REMLIVE RL-24i is manufactured using modern manufacturing techniques and top quality materials. It has undergone ALL the rigorous tests necessary to attain the **CE Mark** and to ensure that it conforms with the essential protection requirements of **EC Directives EN61326-1:2006** relating to **ELECTROMAGNETIC COMPATIBILITY** and **EN61010-1:2010** relating to the safety of electrical equipment **Low Voltage Directive**. **REMLIVE RL-24i** is fitted with internal surge suppression.



LIMITATIONS OF USE

REMLIVE RL-24i is housed in a robust VO Rated special enclosure, which has been selected for its durability and protective, insulation and zero halogen properties. **REMLIVE RL-24i Main Panel Unit** has been designed to fit into enclosures having a suitable IP Rating for the environment in which the installation will normally operate and should **ALWAYS** be fitted in accordance with the manufacturer's recommendations. **REMLIVE RL-24i Door Unit** has been designed to meet with **IP66** requirements. This equipment is intended for use at ambient temperature between 5 to 40°C, and below 2000m altitude.

LED ILLUMINATION SEQUENCE

The following sequences are related to the illumination and connection of the **REMLIVE RL-24i VISUAL SAFETY WARNING DEVICE**.

The two banks of two light emitting diodes at either side of the RL-24i door unit will flash if **REMLIVE RL-24i** detects a potential difference above 24Vac / 26Vdc between any two connected cables. Users can select, via DIL switches in the main panel unit, if this indication should be ON FLASHING or ON STEADY or OFF ALTOGETHER. See product labelling for details. Factory setting is ON FLASHING.

The four dual light emitting diodes towards the centre of RL-24i Door Unit, L1, L2, L3 and N will illuminate as follows:

DC VOLTAGES	ILLUMINATION			
	L1	L2	L3	N
If a Direct Current voltage is connected: Positive to L1 and Negative to N	ON	OFF	OFF	ON
NOTE: L2 or L3 can also be used for the positive connection.				

AC VOLTAGES	ILLUMINATION			
	L1	L2	L3	N
When a single phase connection is made and:				
L1 is chosen for the live connection	ON	OFF	OFF	ON
L2 is chosen for the live connection	OFF	ON	OFF	ON
L3 is chosen for the live connection	OFF	OFF	ON	ON
When a three phase connection is made:	ON	ON	ON	OFF
NOTE: If a single phase is lost, the LED associated with that phase will go off and the Neutral LED will illuminate. Example: L2 fails:	ON	OFF	ON	ON
If two phases are lost, the LED's associated with those two phases will go off and the Neutral LED will illuminate. Example: L1 and L2 fail:	OFF	OFF	ON	ON
NOTE: If Neutral and Earth are connected and the Neutral line has in excess of 24 volts active, the Neutral LED will be illuminated, even with all phases off.	OFF	OFF	OFF	ON