
INSTALLATION GUIDE

Micro-Link



Disclaimer

This document is intended to be used as a reference guide for the installation and operation of the Micro-Link Control System.

Every effort has been made to ensure the reliability and accuracy of the information contained in this manual at the time of going to press. However, specifications and procedures are subject to change due to our constant endeavours to meet customer requirements, and to maintain a research and development process of continuous improvement for all Woodway products.

Woodway Engineering Ltd reserves the right to make changes in product and documentation specifications and procedures at any time and without notice. The information contained in this manual is believed to be reliable and accurate with regard to the Micro-Link Control System. The company shall not be held liable for improper installation, operation, or maintenance of the system in circumstances where procedures and specifications have not been followed correctly.

Important Installation and Safety Notes



CAUTION! Modules and connectors are not waterproof. Install modules and cables in a dry location away from excessive heat, humidity and any components likely to damage the system.

It is the installers responsibility to ensure that;

- The method of installation does not damage or interfere with the vehicle equipment and wiring.
- If the vehicle is fitted with airbags, the installation does not interfere with the operation or effectiveness of the airbags, or this will cause the equipment to become a projectile that could cause death or injury.
- All connections to chassis are taken direct to the battery.
- Fuse ratings are changed to suit specific applications.

The proximity of certain radio equipment may interfere with Micro-Link data transmission. To reduce this possibility, Micro-Link and radio equipment wiring should always be kept well apart and should not, under any circumstances, be harnessed or fastened together.

The installers should supply all mounting fixings.

It is the user's responsibility to ensure that;

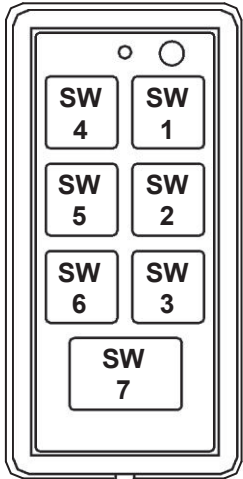
- The system is used in a safe and responsible manner to ensure the safety of both themselves, their passengers, other road users and pedestrians.
- The system and its installation are properly maintained to ensure its effective operation.



WARNING! Failure to follow these safety precautions and instructions could result in damage to the product or vehicle, and/or serious injury to your passengers.

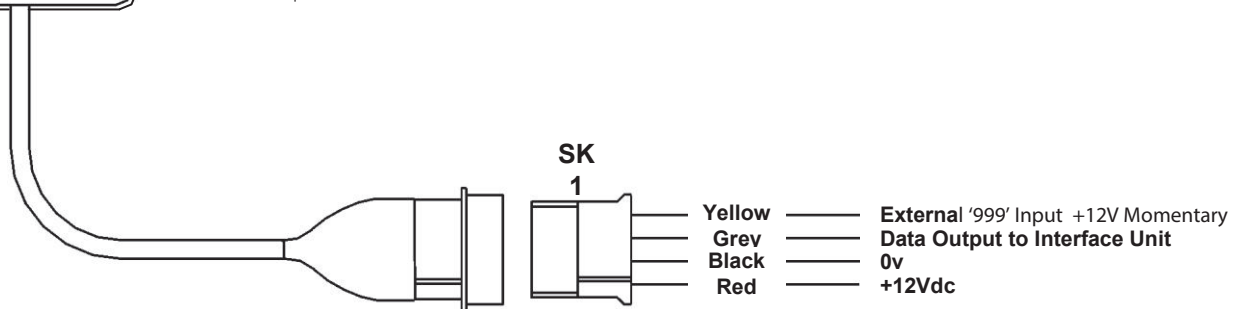
System Connection Diagrams

Micro-Link Keypad ZE0187

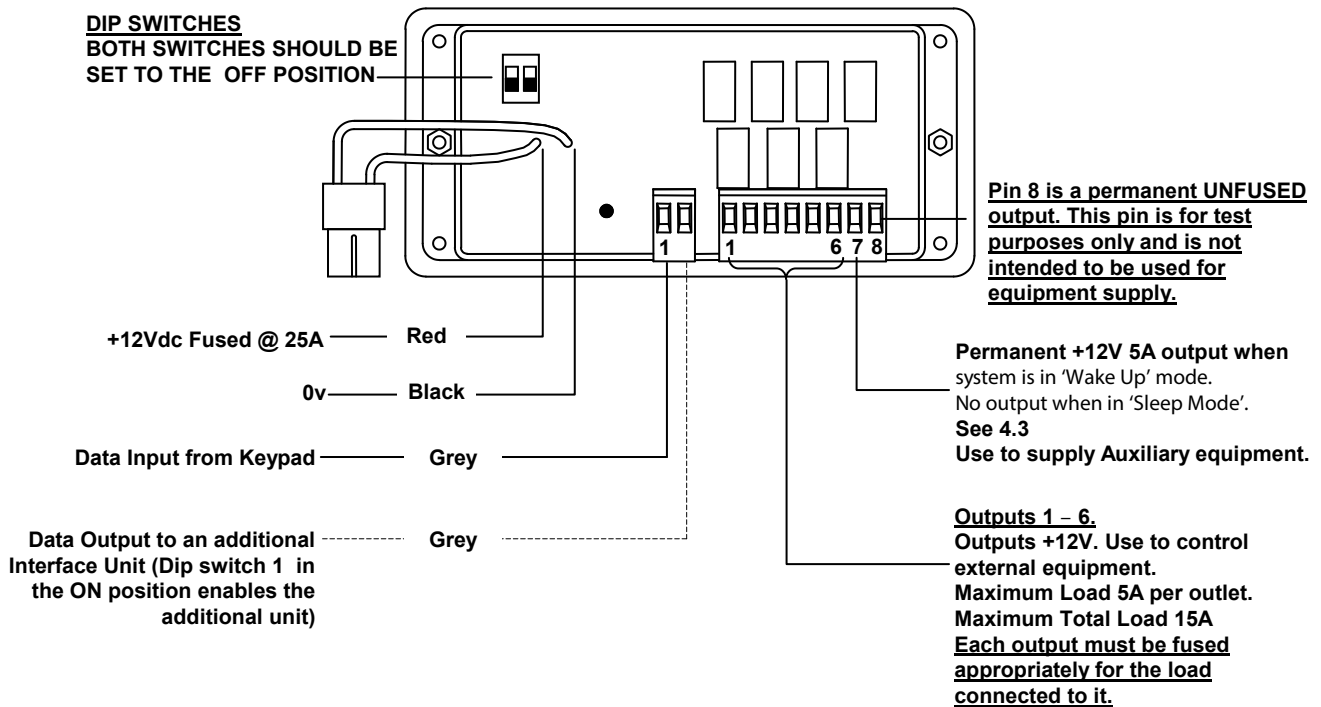


Dimensions:
103 x 52 x 25

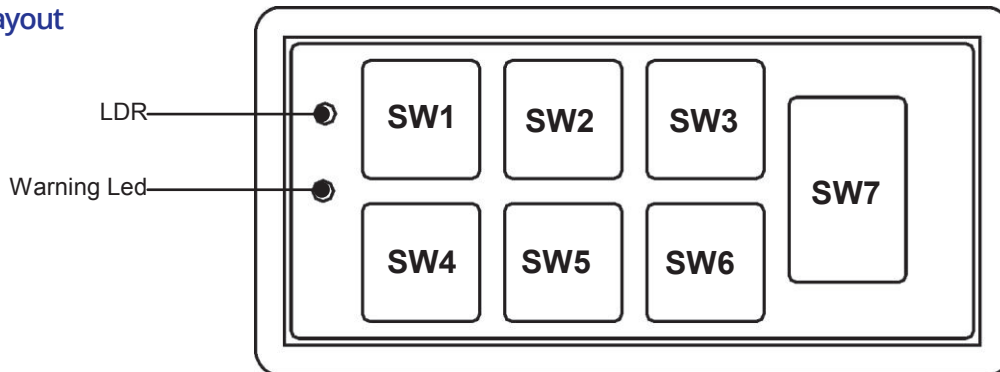
The Micro-Link keypad draws 82.5mA @13.8V when all switches are illuminated and 7.2mA @13.3V when asleep.



MicroLink Relay I/F ZE0210



Keypad Layout



Introduction

The Micro-Link keypad operates much like the larger Opti-Link keypad. The major difference is that there is only one large key, performing 3 functions instead of separate Pursuit, Arrival and Reset keys. The associated Interface/Output Receiver has 6 high current output stages for controlling external equipment.

Installation Requirements and System Limitations

The Micro-Link System is designed for 12-volt operation only. The Interface Output/Receiver unit **must** be mounted in a well ventilated dry location and away from heat sources, preferably on a metal surface to conduct heat away. **UNDER NO CIRCUMSTANCES SHOULD THE UNIT BE MOUNTED INTO AN ENCLOSED SPACE WHICH WOULD ALLOW HEAT TO BUILD UP**

Maximum output per relay – 5 Amps.
Maximum total output – 15 Amps

EACH OUTPUT MUST BE FUSED APPROPRIATELY FOR THE LOAD CONNECTED TO IT.

Operation

Pursuit / Arrival / Reset

In normal operation the large key, SW7, functions as a reset switch. If no channels are selected, pressing SW7 will cycle between a pre-defined Pursuit Setting, an Arrival setting and finally a Reset. When in Pursuit mode the key will light blue. When in Arrival mode the key will light red.

External '999' Input

Connecting pin 4 on the keypad connector to +12V via an external momentary switching source will enable the Pursuit setting on the keypad.

Walk Test

Pressing and holding the large button, SW7, when not in either Pursuit or Arrival mode initiate a walk test. Each channel will then be lit individually for a few seconds allowing a test of all outputs.

Sleep / Wake-up / Sleep Test

The unit will automatically go to sleep after an hour if no channels are selected and the supply voltage is less than 13.5 volts (i.e. the engine is not running).

The unit will wake-up when a key is pressed or when the supply voltage exceeds 13.5 volts.

For test purposes the unit can be put to sleep by pressing and holding SW6 and SW7 for a few seconds.

Audio / Visual Warnings

As a channel on reminder, the warning LED will flash and the unit will beep every 30 seconds whenever a channel is on. The warning LED will flash continuously when the battery voltage falls below a critical level 9.5volts.

Finally the LED will light continuously when the programming lockout is disabled.

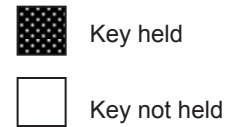
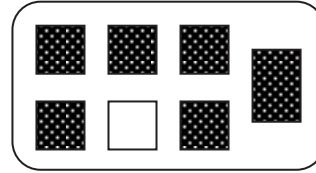
Low Light Keypad Dimming

When the ambient light level falls below a pre-set level the keypad illumination will automatically dim. This is controlled by the LDR (light dependent resistor) adjacent to SW1. **DO NOT COVER THIS DEVICE.**

Programming

Reprogramming and the Programming Lockout

Before the unit can be programmed, the programming lockout must be disabled. Pressing and holding all the switches except channel 5 will deactivate the programming lockout for 5 minutes. Whilst the programming lockout is disabled the warning LED will remain continuously lit. If power is removed, or the unit is put to sleep the unit will return to the locked mode.



Programming Pursuit / Arrival Settings

Disable the programming lockout as described above.

When in Pursuit or Arrival mode, pressing and holding the large key, SW7, will allow programming of each mode. The key must be held for a number of seconds until the blue (Pursuit) or red (Arrival) start to flash. The leds will flash for 30 seconds in which time the required channels can be switched on/off. After this time the unit will store the new settings. Programming can be cancelled by pressing the large button again once (reset).

Programming Strobe Functionality

The buttons SW1, SW2 and SW3 can be made self-cancelling in two different ways.

- **Self Cancelling** - Only one button can be active at one time.
Pressing and holding the large button, SW7 and SW1 will enable/disable the self-cancelling mode.
- **Special Setting** - Operating SW1 only also activates/deactivates SW2 and SW3.
Pressing and holding the large button SW7 and SW2 will enable/disable the special setting.

Programming Momentary Action

Any button can be made momentary. This is achieved by pressing and holding SW7 and SW4 until the large button will flash blue and red. This indicates that the unit is in momentary programming mode. Any channel can now be activated. After 30 seconds, any channel lit will become momentary.

Global Reset

If the programming needs to be un-done, the unit can be returned to the factory default setup by pressing and holding SW7 and SW3 for 5 seconds.

Notes

Notes

Made in the UK



ISO 9001:2015 Certified



2 Year Warranty

