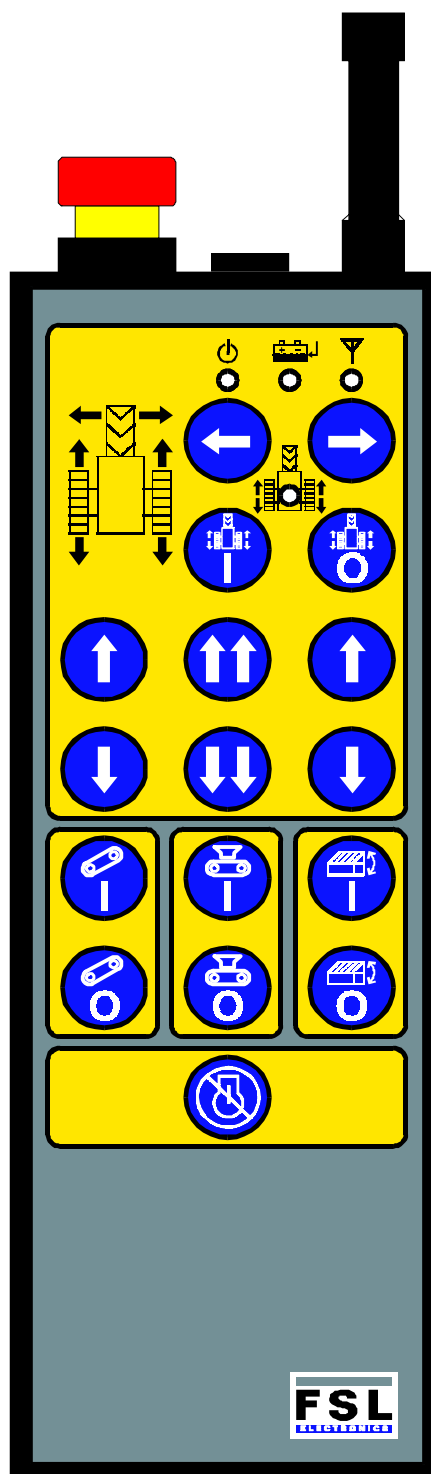
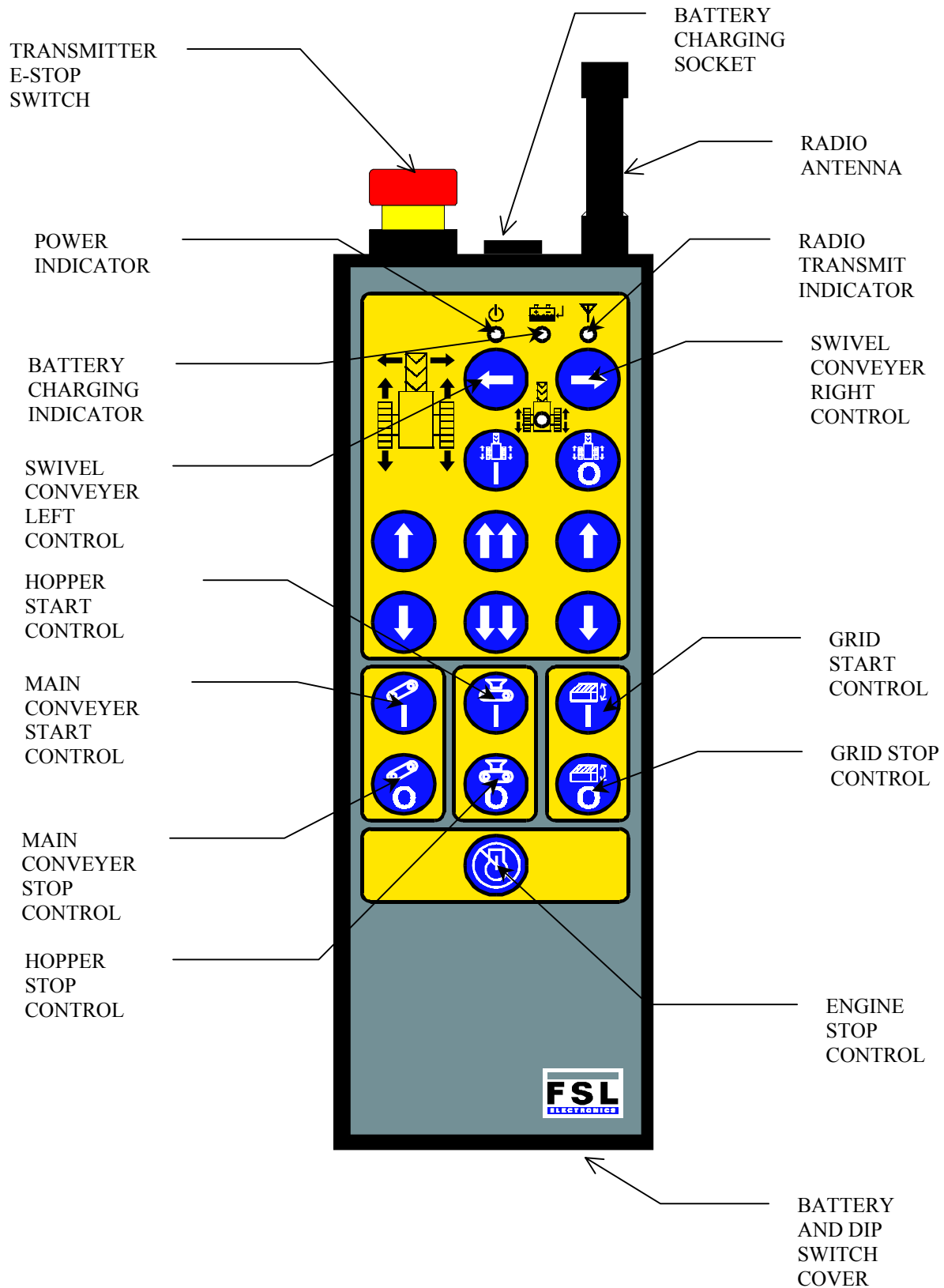


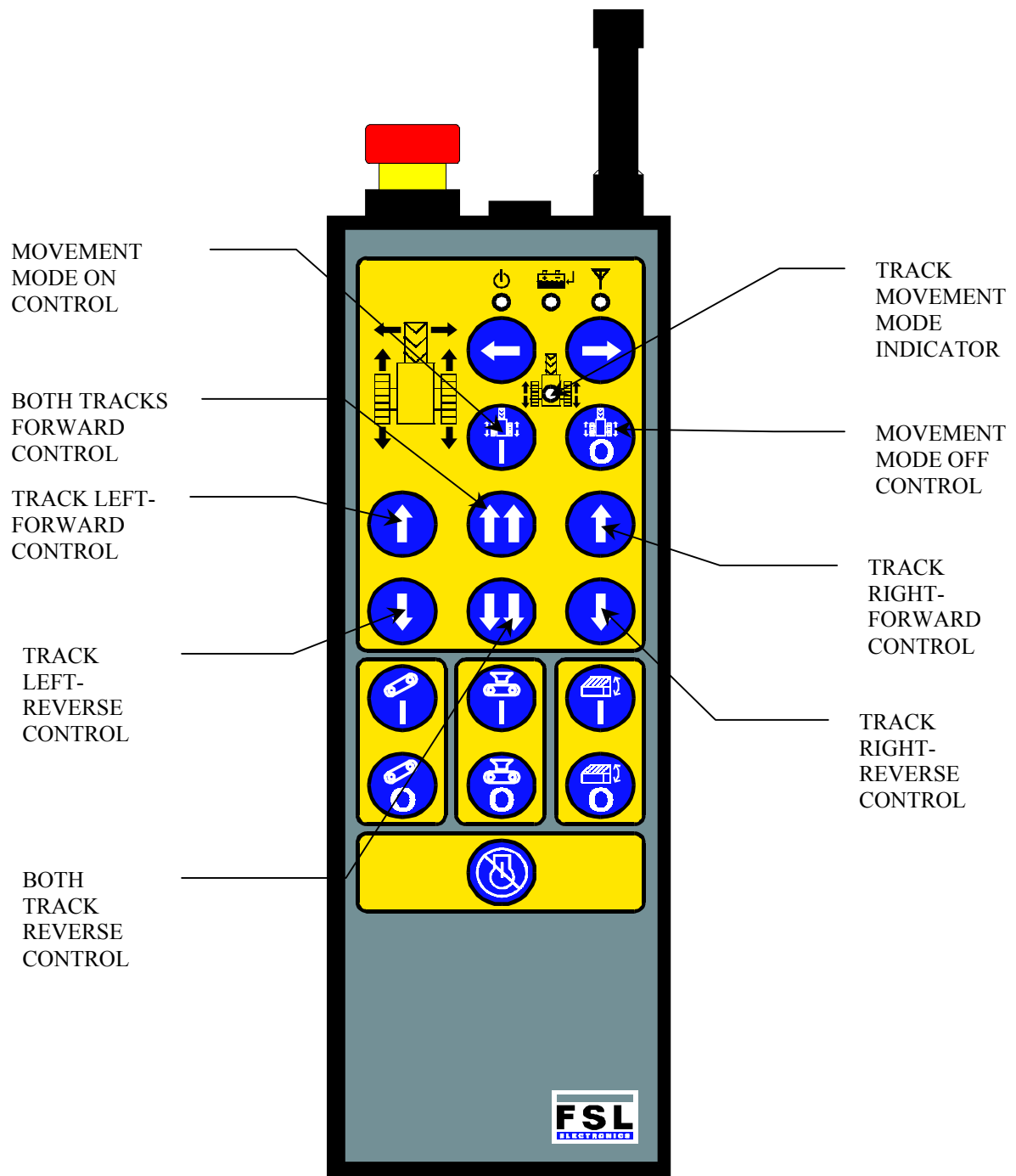
OPERATING INSTRUCTIONS FOR FSL ELECTRONICS LTD “ULTRATRACK” REMOTE CONTROL SYSTEM



1.0 TRANSMITTER OPERATION:

The figure below shows the transmitter unit with an explanation of each function.





1.1 TRANSMITTER OPERATION:

The power to the transmitter is activated by pulling the E-STOP control outwards. The E-STOP will be heard to click. The green power indicator will illuminate. The transmitter should be switched off after operation or during battery charging. This is carried out by pressing the E-STOP switch inwards.

1.2 TRACK MOVEMENT OPERATION:

The system is placed into track movement mode by pressing the MOVEMENT MODE ON control on the transmitter. This will send an enable code to the receiver unit to start a seven-second delay before any track movement can be made. During this time a warning siren / beacon will be activated (if fitted by the machine manufacturer).

On the transmitter unit the movement mode indicator will flash rapidly for seven-seconds. After this initial delay the indicator will flash slowly and the track movement controls can be operated. If any track movement controls are pressed during the movement on delay the controls and delay will be disabled until the switches are released.

The movement mode can be deselected by pressing the MOVEMENT MODE OFF control. If any other function is pressed (i.e. hopper, conveyer, swivel and engine stop controls) the track movement mode will be disabled. The track movement mode indicator will be extinguished.

1.3 ENGINE STOP CONTROL:

The ENGINE STOP control will send a signal to the receiver unit to stop the engine on the machine. It will also be sent if the transmitter E-STOP control is activated. THIS CONTROL SHOULD NOT BE CONSIDERED AS BEING PART OF THE MACHINE EMERGENCY STOP SYSTEM!

1.4 CONVEYER SWIVEL LEFT AND RIGHT CONTROLS:

Pressing the appropriate control on the transmitter will activate the out-feed swivel conveyer left and right controls. This will also disable the track movement mode.

1.5 MAIN CONVEYER START AND STOP CONTROLS:

Pressing the appropriate control will start or stop the main conveyer on the machine.

1.6 HOPPER CONVEYER START AND STOP CONTROLS:

Pressing the appropriate control will start or stop the hopper conveyer on the machine.

1.6 GRID START / STOP CONTROLS:

Pressing the appropriate control will start or stop the programmed up and down cycle of the grid on the machine.

2.0 BATTERY CHARGING:

Inserting the provided charging lead into the socket at the top of the transmitter unit will charge the rechargeable battery. The yellow charge indicator will illuminate to show that a charging voltage is present. It will take 10 hours to provide a full charge of the battery. The charging lead should only be connected to an automotive type cigar socket supply between 12V – 24V DC! The transmitter can also be powered by the charger lead (by pulling the E-STOP to the outwards position)

3.0 DIP SWITCH SETTING:

The Transmitter code setting can be adjusted to suit a particular receiver unit. This is achieved by an eight-way DIP switch at the bottom of the transmitter unit, behind the battery cover. Contact the machine manufacturer or FSL Electronics Ltd for further information on setting up particular codes.

4.0 TROUBLE SHOOTING GUIDE:

If the remote control system does not appear to operate then the following steps should be carried out before contacting technical support.

- Ensure that the transmitter is switched on! (By pulling the E-STOP switch outwards).
- Check that the green power indicator is illuminated on the transmitter.
- If the power indicator does not light make sure that the battery is fully charged.
- Check that the charging indicator illuminates when inserted to the transmitter and connected to a supply.
- Check the operation of the transmitter with the charging lead connected to a supply.
- Make sure that the transmitter is transmitting a signal by checking the red transmit indicator when an appropriate control switch is pressed.
- Check that the remote control receiver on the machine is being provided with power by checking the power indicator in the receiver unit.
- Ensure that the transmitter and receiver are set for the same code. Check the signal-receive and valid code indicators on the receiver are illuminated when a control function is activated on the transmitter. If only the signal receive indicator illuminates then the transmitter DIP-switches need to be adjusted to suit the receiver unit.

5.0 TECHNICAL SPECIFICATION:

Supply Voltage

1 X 9V Alkaline battery, type 6AM6, 6F22, PP3 (non rechargeable units)

1 X 9V Nickel Metal Hydride, type GP 15F8H

Power Consumption

Activated: max 24mA

De-activated: max 2mA

Range

Dependant on surroundings and conditions

Typical 100m

Transmission Type

UHF Radio

433.92 Mhz

Operating Temperature

-20 °C to 55 °C

Housing

Black Aluminium extrusion IP65

Channels 1 to 19

NOTICE: All information contained within this manual is copyright to FSL Electronics Limited, 2001. FSL Electronics Limited reserve the right to change this manual and specification of products without prior notice

For further technical information please contact

FSL Electronics Limited

Sandholes Road

Cookstown

Co. Tyrone, N. Ireland, BT80 9AR

TEL: +44 (0) 28 8676 6131 FAX: +44 (0) 28 8676 6414

www.fsl.ltd.uk e-mail technical@fsl.ltd.uk