Lodar ®
WIRELESS SOLUTIONS

SYSTEM CONTENTS

1 x IP Transmitter

1 x Lanyard

1 x Receiver Wiring Harness & Glands

1 x Instructions

System shown with optional cradle

SYSTEM PART NUMBER
92206   6 Function Receiver & Transmitter

REPLACEMENT TRANSMITTER
92206TX 6 Function

IP TRANSMITTER SPECIFICATION

SWITCH   - Type   Tactile Dome on PCB Keypad

BATTERY - Type   4 x AAA Alkaline Manganese in holder (6 Volts)

INDICATOR
Type	1 x Red LED
Off	Transmitter OFF (The STOP Button has been pressed and released)
Slow flash	Transmitter ON and ready for use (The SET Button has been pressed and released)
On	Transmitting (A STOP, SET or Function Button is being pressed)
Fast flash	Transmitting – Indication that the battery will need replacing soon

CURRENT DRAW
Quiescent	15 micro amps
Operating	24 milliamps

PROTECTION
Reverse polarity	Protected
IP Rating	67
Registration codes	Over 16 million

PERFORMANCE
Temp Range	-10º C to + 40º C (13º F to + 104º F)
Range Nominal as supplied	60 metres (200 ft) from the Receiver, when driving a momentary output without signal drop out
Transmitted power	1 mW Typical

COMPLIANCE
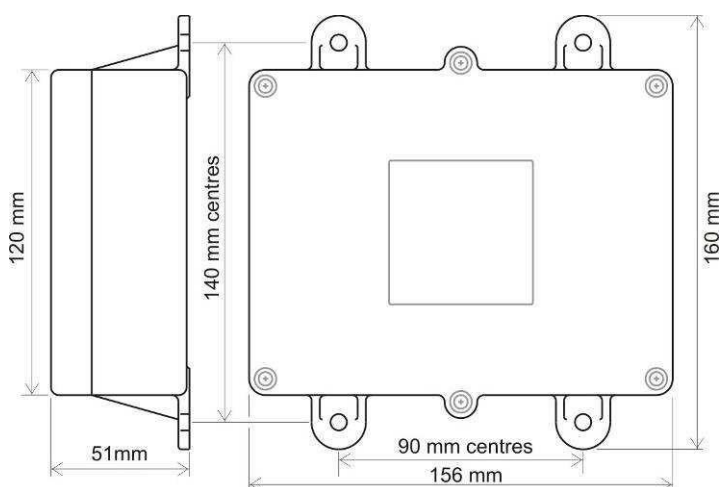|			
EMC	2004/104/EEC	Exceeds ETSI 300 220	Compliant E11 10R-037601
Modulation	FM		
Frequencies	418.00 MHz F1D	USA (optional UK)	
	433.92 MHz F1D	World wide (optional USA)	

RECEIVER SPECIFICATION

SWITCH TYPE
Output Switching   MOS Field Effect Transistor (P Channel Power MOSFET)

SUPPLY VOLTS
Nominal	12/24 Volts DC
Absolute Maximum	40 Volts DC
Minimum	8 Volts DC
Output Switch Supply	Internal 12/24 Volts

AMPS
FET Rating	15 Amps
System Rating	15 Amps
Quiescent Current	25 mA on Standby (Not SET)
Overload Protection	15 Amps (Auto Shutdown)

AERIAL
Internal Antenna	Yes	Supplied and fitted
External Antenna	Optional	See Accessories.

OUTPUTS
Master	1	Can be Parallel or Continuous
Function	6	
Master (Secondary)	1	Continuous

CONFIGURATION
RS232 Programming to users requirements	Yes	Not all models, see Build Specification Table. For programming interlocks, push/push latch, parallel master inhibit, timeout, channel timeout delay, master on delay, radio button de-latching and output allocation.

PERFORMANCE
Simultaneous Outputs	Yes	With horizontal interlocks (Interlocks are programmable – see CONFIGURATION above)
Instant TX response	Yes	No perceivable delay between TX operation and RX action

DIAGNOSTICS
LED's	Yes	Confirm 5 Volts, SET, Fault and all Outputs.

PROTECTION
ESR Safety	Yes	See ESR Safety document.
Back EMF	Yes	
Registration codes		Over 16 million
STOP Connection	Yes	Internal Emergency Stop Connection

WIRING
Wiring Loom	Yes	3 metres (10ft) supplied and fitted
Cable Gland	Yes	Supplied and fitted
Connections		Screw terminal into plug and socket on PCB, for easy "swap out"

DIMENSIONS

ENCLOSURE
Weight	0.3 lbs (335gms)
Lid	Clear PVC - to view LEDs
Base	Black PVC
Breather	Gortex fitted in base
Mounting	4 external lugs
Fixings	5mm (3/16") not supplied
IP Rating	Performs to IP67 standard (0.5 metre water for 1 hour)

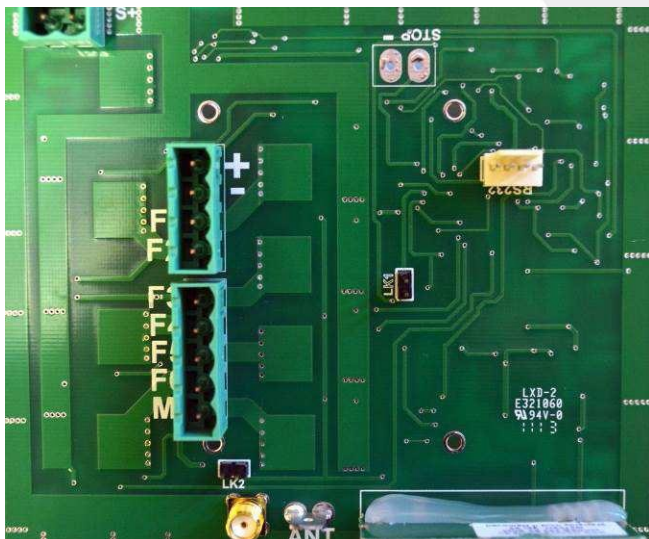ACCESSORIES   9861, 9862, 9863 and 9869 – External Antenna with cable.

92 Series			92 2 06	92 2 07
BUILD SPECIFICATION TABLE FOR MODELS IN THIS RANGE				
Ident	Legend	Connection		
	+ - F1 F2	Positive, Negative, F1 and F2	S	S
	F3 F4 F5 F6 M	F3, F4, F5, F6 and Master	S	S
	ST -	STOP and -	S	S
	S+ S-	S+ S-	S	S
	ANT	Internal Antenna	S	S
X5		SMA Connector (external antenna)	S	S
LK1	P	Master - Parallel	C	F7
LK2	C	Master – Continuous	C	
LK3	RS232	RS232	S	S
		3 metres 2 core	S	S
		3 metres 7 core	S	S

S = Standard. C = Customer configured (see "Factory Settings").

+	Positive	12/24 Volt supply
-	Negative	0 Volts
F1, F2, F3, F4, F5 & F6	Outputs to F1 through F6	
M	Master Output	

STOP -   STOP, when grounded shuts down the Receiver
S+ S-   Master Secondary for Safety solenoid connections etc.
ANT   Blade connector for internal antenna
SMA   Aerial connection for optional external antenna (internal antenna must be removed)

LK1   Jumper fitted to this link for continuous Master
LK2   Jumper fitted to this link for parallel Master
Factory Settings   418MHz configured Parallel, 433.92MHz configured Continuous
LK3   RS232 for interface to access special programmes
                           Also for connection to RS232 modules

PCB – Not to scale

Connector Side   Component Side