30 Function and IP Transmitter with Shift

SYSTEM PART NUMBER

92330 1 x 20 Function Receiver & 1 x 10 Function Receiver 1 x 16 Function IP Transmitter with Shift Buttons. (30 Function in Shift Mode – 2 functions not used)

REPLACEMENT TRANSMITTER

92316TX 16 Function IP Transmitter with Shift Buttons. (30 Function in Shift Mode - 2 functions not used)

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TRANSMITTER SPECIFICATION

SWITCH Туре

Tactile Dome on PCB Keypad

BATTERY Туре

INDICATOR

Transmitter Off **Transmitter Slow Flash** Transmitter On Transmitter Fast Flash Enclosure Slow Flash

CURRENT DRAW

Quiescent Operating

PROTECTION

Reverse polarity IP Rating **Registration codes**

PERFORMANCE

Temp Range Range Nominal as supplied Transmitted power

COMPLIANCE

EMC Modulation Frequencies

4 x AAA Alkaline Manganese in holder (6 Volts)

2 x Red LED

The STOP Button has been pressed and released ON and ready for use. The SET Button has been pressed and released Transmitting. A STOP, SET or FUNCTION Button is being pressed An Indication that the battery will need replacing soon ON and ready for use with Receiver 2. The SET button has been pressed and released

20 micro amps 25 milliamps

Protected 65 Over 16 million

-10°C to + 40°C (13°F to + 104°F) 60 metres (200 ft) from the Receiver, when driving a momentary output without signal drop out 1mW Typical

2004/104/EEC Exceeds ETSI 300 220 FM 418 MHz F1D USA 433.92 MHz F1D World wide (optional USA)

RECEIVER SPECIFICATION

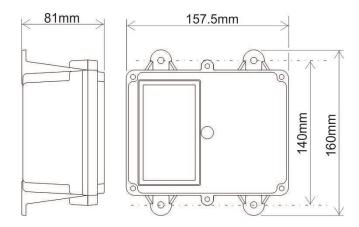
SWITCH TYPE Output Switching	MOS Field Effect Tra	nsistor (P Channel Power MOSFET)
SUPPLY VOLTS Nominal Absolute Maximum Minimum Output Switch Supply	12/24 Volts DC 40 Volts DC 8 Volts DC Internal 12/24 Volts	
AMPS FET Rating System Rating Quiescent Current Overload Protection	15 Amps 15 Amps 25 mA on Standby (N 15 Amps (Auto Shu	
<mark>AERIAL</mark> Internal Antenna External Antenna	Yes Supplied Optional See Acces	and fitted ssories
OUTPUTS Master Function	1 Can be Pa 30 20+10	arallel or Continuous
CONFIGURATION RS232 Programming to users' requirements		odels, see Build Specification Table. For programming interlocks, push/push latch, naster inhibit, timeout, channel timeout delay, master on delay, radio button de-latching and location.
PERFORMANCE Simultaneous Outputs Instant TX response		zontal interlocks (Interlocks are programmable – see CONFIGURATION above) ivable delay between TX operation and RX action
DIAGNOSTICS LED's	Yes Confirm 5	Volts, SET, Fault and all Outputs.
PROTECTION ESR Safety Back EMF Registration codes STOP Connection	Yes Diode pro Over 16 n	afety document. otected on all outputs nillion imergency Stop Connection
WIRING Wiring Loom Cable Gland Connections	Yes Supplied	applied as an option – fitted by customer minal into plug and socket on PCB, for easy "swap out"

ENCLOSURE – 20 Function shown

Weight	Approx. 0.5 lbs (335gms)
Lid	Clear PVC - to view LEDs
Base	Black PVC
Breather	"Gortex", fitted in the base
Mounting	4 external lugs
Fixings	5mm (3/16") not supplied
IP Rating	IP66

ENCLOSURE – 10 Function

This is the same enclosure as the 20 Function



	92 Ser	ies	0
BUILD SPECIFICATION TABLE FOR MODELS IN THIS RANGE			
Ident	Legend	Connection	9233(
	+-	Positive, Negative,	S
1	M, F1, F2, F3	Master F1, F2 and F3	S
1	F4, F5, F6, F7, F8, F9	F4, F5, F6, F7, F8, F9	S
1	F10, F11, F12, F13, F14	F10, F11, F12, F13, F14	S
1	F16, F17, F18, F19, F20	F16, F17, F18, F19, F20	S
2	F1, F2, F3, F4, F5, F6, F7, F8, F9, F10	F1 & F2, F3, F4, F5, F6, F7, F8, F9, F10	S
	S+, S-	Safety Solenoid S+ and S-	S
	STOP, 0Volts	STOP connections	S
	ANT	Internal Antenna	S
		SMA (external antenna)	S
LK1	LK1	Master - Parallel	С
LK2	LK2	Master - Continuous	С
	R5232	RS232	S
		9863 Antenna with 3 metre cable	2
		Number of Receivers	2
		Number of Transmitters	1

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

+	Positive 12/24 Volt supply	
-	Negative 0 Volts	
F1 to F16	Outputs to F1 through F16	
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	Master Selection by Jumper (BA = Continuous & AC = Parallel)	
LK2	Connected when using Parallel Master, connects safety circuits	
Factory Settings	418MHz configured Parallel, 433.92MHz configured Continuous	
LK3	RS232 for interface to access special programmes	

EXPLANATION OF "SHIFT" OPERATIONS - as illustrated with a 20 Function Transmitter.

These "SHIFT" operations can be applied to ALL Transmitters. For example, a 10 function Transmitter will give 20 functions – ideal if you do not want the larger 20 function Transmitter.



To operate 2 x 20 function Receivers, giving 40 functions

This is a standard 20 function Transmitter, modified so that it transmits 20 functions in two different modes.

The Green SET Button is the SHIFT button. Both 20 function Receivers can therefore be operated by one Transmitter.

Press the Green SET Button to turn both Receivers on - it will start in mode One; press it again for mode Two; press it again for mode One, and so on.

Press the Red Stop button to turn both modes off.

Receiver One (functions 1 to 20) is operated with the SHIFT buttons in mode One, indicated when the Keypad LED is flashing during operation.

Receiver Two (functions 21 to 40) is operated with the SHIFT buttons in mode Two, indicated when the Enclosure LED is flashing during operation.

To register a Transmitter to its TWO Receivers.

Switch OFF or DISCONNECT the power to the Receivers.

Switch ON or Reconnect the power to Receiver ONE, this opens a 10 SECOND registration window in its processor.

Immediately **PRESS** and **HOLD** the green **SET** button while the registration window is open until the **SET** LED lights (5 seconds), the **SHIFT** function must **NOT** be active.

Receiver TWO, repeat the process but this time **PRESS** and **HOLD** the **SHIFT** button, and **PRESS** and **HOLD** the **SET** button until its **SET** LED lights.

You have now coded the Transmitter to both receivers.