## 96104 - AC 2 Function & Standard Transmitter

96 Series – AC Relay System (No Master)

### **SYSTEM PART NUMBER**

**96104** 2 Function Receiver + 2 Function Standard Transmitter

### **REPLACEMENT TRANSMITTER**

**92104TX** 2 Function Standard Transmitter

# CONTENTS

- 1 x Receiver
- 1 x Standard Transmitter
- 1 x Lanyard
- 1 x Instructions





## STANDARD TRANSMITTER SPECIFICATION

**SWITCH** 

Type Tactile Dome

**BATTERY** 

Type 9V Alkaline Manganese

**CURRENT DRAW** 

Quiescent 15 micro amps Operating 20 milliamps

**PROTECTION** 

Reverse polarity Protected IP Rating 55

Registration codes Over 16 million

PERFORMANCE

Temp Range  $-10^{\circ}$  C to  $+40^{\circ}$  C  $(13^{\circ}$  F to  $+104^{\circ}$  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 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 HF118F Miniature High Power Relay

Max. Switching Current 10 amps at 250VAC

Max. Switching Power 2500VA

Max. Switching Volts 250 VAC Nominal

Min. Switching Volts 48 VAC (below this the Safety Circuits will switch off the Receiver

**SUPPLY VOLTS** 

Nominal 90/264 VAC

**AMPS** 

Quiescent Current 25 mA on Standby (Not SET)

**AERIAL** 

Internal Antenna Yes Supplied and fitted

External Antenna Optional Receiver <u>must</u> be ordered with SMA connector (see Accessories Part 9010).

**OUTPUTS** 

Master 1 Can be Parallel or Continuous. Not all models – see Build Specification Table

Functions 4

**CONFIGURATION** 

RS232 programming Optional Receiver <u>must</u> be ordered with RS232 connector (see Accessories Part 9011) for programming to user

requirements; interlocks, push/push latch, parallel master inhibit, timeout, channel timeout delay,

master output delay etc.

**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 Diode protected on all outputs

Registration codes Yes Over 16 million

STOP Connection Optional External Emergency STOP connector (see Accessories Part 9011).

WIRING

Wiring Loom No

Cable Gland Yes Supplied and fitted

Connections Yes Screw terminal into plug and socket on PCB, for easy "swap out"

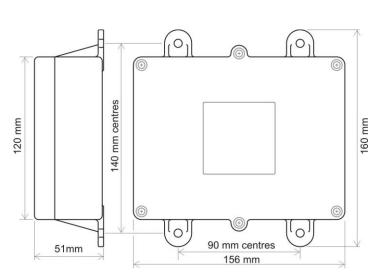
**ENCLOSURE** 

Weight 0.3 lbs (335gms) Lid Black PVC 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.

9010 – SMA Connector, for external aerial

9011 – ST, S+ & S- connector and RS232 connector

96 Series			00096	96002	96004	96100	96102	96104
BUILD SPECIFICATION TABLE FOR MODELS IN THIS RANGE								
Ident	Legend	Connection	J.	<b>.</b>	•	<u>.</u>	<b>.</b>	<b>.</b>
	E	Earth	S	S	S	S	S	S
	L	Live	S	S	S	S	S	S
	N	Neutral	S	S	S	S	S	S
	F1 & F2	Outputs to F1 & F2 (IN & OUT)	S	S	S	S	S	S
	F3 & F4	Outputs to F3 & F4 (IN & OUT)			S			S
	М	Master Output		S	S		S	S
	S-	Stop Circuit (5 Volts DC)		S	S	S	S	S
	ANT	Internal Antenna	S	S	S	S	S	S
	SMA	Connector for External Antenna		S	S		S	S
LK1		Master Parallel		С	С		С	С
LK2		Master Continuous		С	С		С	С
RS232		RS232		S	S		S	S

S = Standard. M = Standard but Master only connected. C = Customer configured (see "Factory Settings").

E Earth

- Live 90-264 VAC F1, F2, F3, F4 Outputs F1 to F4 M Master Output

ST STOP - grounding shuts down the Receiver ANT Blade Connector for Internal Antenna

SMA Aerial Connection for 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

RS232 RS232 for interface with other RS232 modules and special programming

