

## Features

- Approved isolation requirements
- Rugged construction
- Proven field reliability
- Models for transmit & receive
- Combined power supply option
- Separate power supply unit available
- Range of transmit & receive system configurations possible
- Range of transmit supply voltage options
- Made in Australia

## Application

This series of relay products and power supplies may be used to transmit & receive ON/OFF signals over private telephone lines.

All units are double insulated & have been type tested to meet the requirements of Austel specification TS006.



3A100 / 3A101 enclosure style

4P31 / 1L70 enclosure style

## System Descriptions

(Refer page 2 for circuits)

Made in Australia

**SYSTEM 1** Use for a simple ON / OFF communication system.

RECEIVER: 3A100 Relay

The 3A100 Receive relay has the isolation requirements to connect the coil directly to the line & the contacts to any external circuit. Contacts are micro switches rated at 15A 240V AC resistive.

TRANSMITTER: 4P31 Power Supply

The 4P31 is a power supply unit with isolation & current-limiting specifications to enable direct connection to private telephone lines with a standard input voltage is 240V AC. When used as shown in system 1 the operate time of the receive relay is approximately 40ms from energisation of the supply and approximately 300ms to release after de-energisation.

**SYSTEM 2** Use where the transmitter has no power available.  
e.g. Remote water header tanks

RECEIVER: 1L70 Power Supply & Receive Relay

When the line is to be powered at the receive end the 1L70 provides an economical single unit power supply & receive relay. It is particularly suitable for use with remote float switches where power may not be available at the remote transmitting end.

TRANSMITTER: Approved switch

**SYSTEM 3** Use where the available power supply at the transmitter end is unsuitable for application on private telephone lines or use with power supply transmitter. Slow pulse code information can be transmitted.

RECEIVER: 1L70 Power Supply & Receive Relay (As above)

TRANSMITTER: 3A101 Transmit Relay

These relays have isolated contacts suitable for direct connection to private telephone lines. Coils are available for all AC or DC voltages up to 250V. The standard burden is 1 to 2W or VA with a low burden coil of 0.125W (200 Ohms) available for 5V logic control.

**SYSTEM 4** Use where a 240V supply is available at the transmitter end. Slow pulse code information can be transmitted.

RECEIVER: 3A100 Relay (As above)

TRANSMITTER: 1L71 Power Supply & Transmit Relay

The 1L71 Transmit Relay directly switches the DC supply to the line as shown in system 1. With this configuration switching times of approximately 30ms operate & 30ms release is obtained. These times are considerably faster than that obtained by switching the power supply (System 1). The 1L71 also permits the use of other than 240V AC control switching & models are available for 5V logic control (200 Ohm coils) as well as all other AC & DC voltages up to 240V.



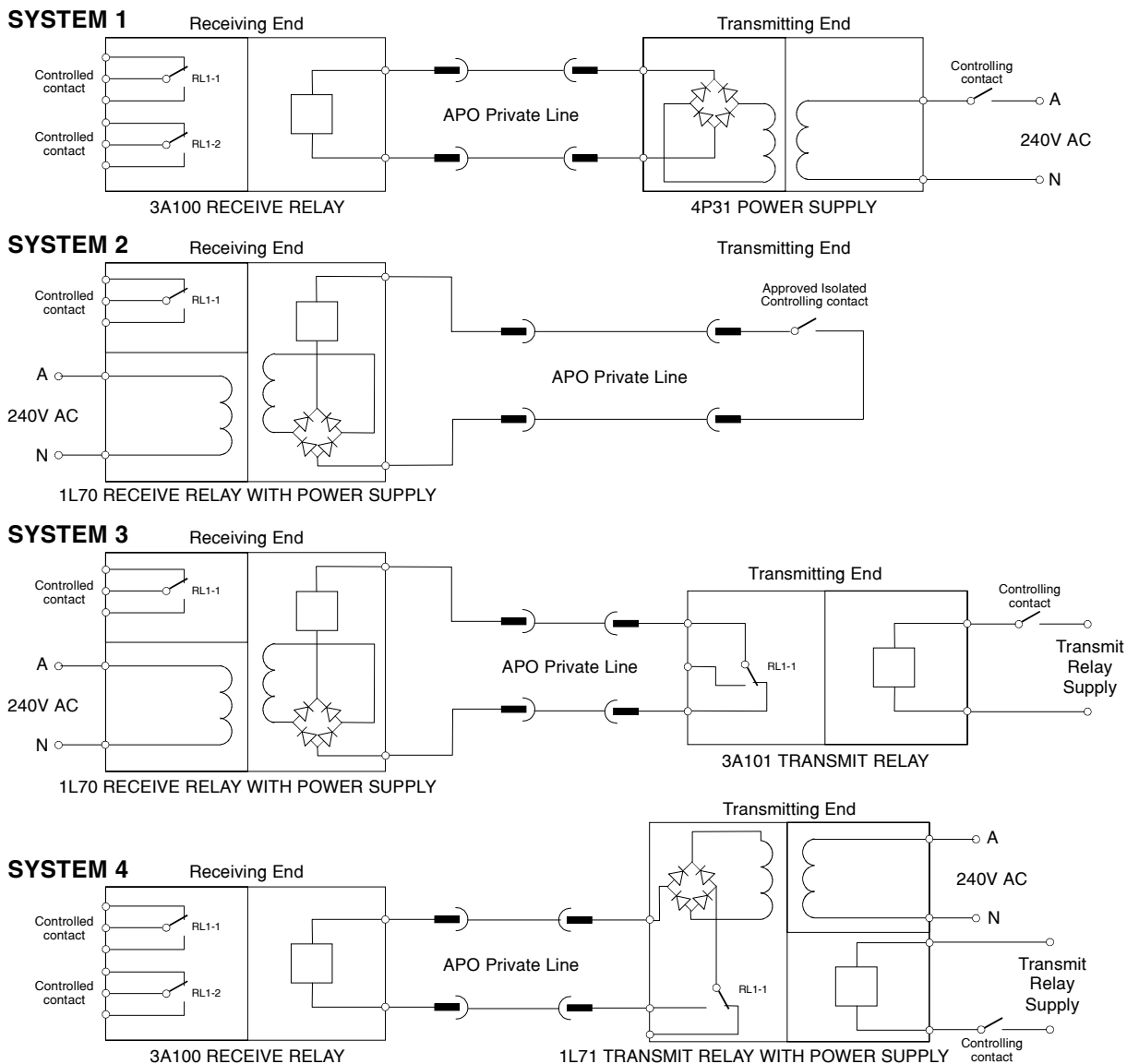
## Dimensions

<b>BASE</b>	All units: 178 (H) x 108(W) mm	
<b>MOUNTING</b>	All units: 4 holes 4.76mm diameter 165 x 95.25mm centres	
<b>PROJECTION</b>	3A100 & 3A101	91mm
	1L70, 1L71 & 4P31	160mm
<b>INSULATION WITHSTAND</b>		
1.	Transmitter:	3.5KV RMS 1 min. Input to line
	Receiver:	3.5KV RMS 1 min. Input to output
2.	Receiver:	3.6KV RMS 1 min. Line to output
		Line to aux.
3.	Transmitter:	3.6KV RMS 1 min. Input to Line
	Receiver:	3.6KV RMS 1 min. Line to output
		Line to aux.
4.	Transmitter:	3.5KV RMS 1 min. Aux. to contact
		Cont. to output
		Aux. to cont.
	Receiver:	3.5KV RMS 1 Min. Line to output
		Line to aux.

## Part Numbers

3A100A	1 C/O	1L70A240	240V AC
3A100B	2 C/O	1L71A24	24V AC
3A101A240	240V AC	1L71A32	32V AC
3A101A110	110V AC	1L71A110	110V AC
3A101A24	24V AC	1L71A240	240V AC
3A101A32	32VAC	1L71D5	5V DC
3A101D5	5V DC	1L7112V	DC D12
3A101D12	12V DC	1L71D24	24V DC
3A101D24	24V DC	1L71D50	50V DC
3A101D50	50V DC	1L71D120	120V DC
3A101D120	120V DC	1L71D240	240V DC

## Standard Interconnection Schemes



AS/NZS ISO9001-94  
 REGISTRATION  
 6869