



ALLEN-BRADLEY BULLETIN 1336 PLUS LOGIC INTERFACE BOARD COMPATIBILITY

APPLICATION NOTE #1336S - 15

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PURPOSE

The purpose of this document is to provide guidelines for wiring and control schemes for the Bulletin 1336S AC Drive. This document is to be used as a suggestion only. Users must ensure that installations meet applicable codes and are suitable for the existing conditions.

The Bulletin 1336S User Manual should be used as a reference to ensure that proper wire selection, routing and fusing guidelines are followed.

WHAT THIS NOTE CONTAINS

Bulletin 1336S Logic Interface cards are designed for use with "hard contacts" from push buttons, selector switches or relays. However, many installations utilize a PLC for control. These outputs are solid state switches not hard contacts; and have a "leakage" current rating that must be verified to ensure compatibility with the Logic Interface board being used.

INTENDED AUDIENCE

This application note is intended to be used by personnel familiar with the hardware components and programming procedure necessary to operate the Bulletin 1336S.

WHERE IT IS USED

The diagrams, parameter settings and auxiliary hardware used in this application note are designed to address specific issues in many different applications. Some changes by the User may be necessary to apply the concepts of this document to a specific application.

TERMS AND DEFINITIONS

1336S-L4 & L4E TTL Logic Interface (low = true logic)
1336S-L5 & L5E 24V AC/DC Logic Interface (high = true logic)
1336S-L6 & L6E 115VAC Logic Interface (high = true logic)

DESCRIPTION

1336S-L4 This interface board uses a TTL type logic. The drive sources the 5VDC that is present on the control terminals for the various functions. To command a given function, the terminal must be "pulled" low to one of the common terminals, TB3 21,25, or 29.

Logic reed type contacts or contacts rated for low power circuits should be used with this interface board, such as: Bulletin 700-CPR, 800T-XAR, or 800M-XAR.

ALLEN-BRADLEY programmable controller modules that can be used are the 1771-OYL and 1771-OZL contact output modules.

1336S-L5 The 24V AC/DC interface module requires the Users to supply the voltage to the control terminals. The return, or common, of the 24V power supply should be connected to the Logic Interface common at TB3 terminals 21, 25, or 29.

The allowable leakage currents are as follows:

DC source	1.5ma into a 2.5k ohm load
AC source	2.5ma into a 2.5k ohm load

Logic reed type contacts or contacts rated for low power circuits should be used with this interface board, such as: Bulletin 700-CPR, or 800T-XAR. The standard 800M contacts will work reliably.

ALLEN-BRADLEY programmable controller modules that can be used are as follows:

1771-OB	1771-OB8	1771-OBN
1771-OQ	1771-OQ16	1771-OYL
1771-OZL	1746-OB8	1746-OB16

1336S-L6 This Logic interface board requires the Users to supply 115VAC to the control terminals for a given function. The return, or common, of the 115VAC supply should be terminated at the Logic Interface common TB3 21, 25, or 29.

Standard push button and relay contacts can be used with this interface board since there is enough power in the circuit to maintain reliable contact continuity.

The 1771-OW, 1771-OA, 1771-OAD and 1771-OWN contact modules can be used for interfacing to A-B programmable controllers.

If solid state switches are used, the leakage current rating of the switch must be less than 10ma. If it is greater than 10ma a 2.5k ohm 10 watt pull down resistor can be installed to assure proper operation of the input card.