	PROTECH®	3	1/06
	MODELS COVERED		INTE
	655B		
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The Model 655B Reed Relay Switcher Car designed to operate as a remote switching contr professional audio systems.

Typical applications are public address system broadcast studios, sales presentation rooms, he phone listening systems, multi-room audio system and recording systems. The actual application of amplifiers is found in buildings such as airport factories, courthouses, casinos, convention cent libraries, hotels, racetracks, training systems, conrate boardrooms, etc.

The Model 655B incorporates 8 individual reed relations The relays are mounted on a single, plug-in principal circuit board. Each relay has a Form A normally of (SPST) contact arrangement. The relays are a vated by grounding the control pin. Relay control p may be ganged together to operate more than relay from a single switch closure. Different combitions of relays may be created by isolating the remissivit closures through diodes.

REED RELAY SWITCHER CARD

INSTALLATION & OPERATION MANUAL

GRA III SYSTEM



Model 655B Shown

rotechaudio.com

rd is	Reed relays are much faster operating than standard
trol in	electro-mechanical relays. The average switching time
	for the reed relay is 1 millisecond. This fast operating
tems,	time makes them ideal devices for line level audio
nead-	applications. The relay cards are designed to operate
tems,	alone or in conjunction with other switching cards in
of the	the INTEGRA III SYSTEM.
oorts,	The Model 655B is designed to mount in the Model s
nters,	857B or 858B Card Frames. The unit may be mixed
orpo-	or matched with other INTEGRA III SYSTEM cards to
	create a complete audio system.
elays.	The card frames will allow mounting of either 9 audio
rinted	cards and plug-in power supply card (Model 858B), or
open	10 audio or switching cards when used with an
acti-	external power supply (Model 857B). If additional
lpins	information is needed, contact Applications Assis-
n one	tance by calling 631-584-5855.
bina-	The reed relay cards may be expected to provide
mote	years of uninterrupted, quality service.

INSTALLATION	4- Unpack each individual card, inspect for shipping damage, and assuming none is found, slide the	
The 655B Reed Relay Switching Card is designed to be mounted in the Model 857B, or 858B Card Frame Assembly. The Model 857B Card Frame will accomodate up to 10 audio cards, and requires an external power supply (Model 66708). The Model 858B Card Frame will accomodate up to 9 audio cards, and has a built-in power supply card (Models 2000-PS-A). Both card frames assemblies bus the DC power to the individual card slots, and provide screw-type barrier termi- nation points for audio and DC connections.	card <u>half-way</u> into the appropriate slot. After all cards have been installed <u>half-way</u> into the card frame, plug in one card at a time and turn on the power supply. Make sure no unusual loading is noticed at the power supply. If loading is noticed, turn off the power supply, unplug the card and recheck terminations. If no loading is noticed, continue inserting each card in the card frame, checking power supply loading as each card is plugged in. When all the cards have been plugged in, the installation is complete, and all that remains is the alignment.	
The determination as to which backplane assembly to use in your project, was made prior to our factory receiving the	ALIGNMENT	
order. The backplane assembly you have received will accomodate the group of cards you or your designer have speciifed.	The Model 655B does not require alignment. Operation of the card may be checked in the following manner:	
	1- Apply a signal representative of the actual signal leve to be used, to contact K1, In (Pin #19).	
The actual steps necessary for installation of the 655B Reed Relay card, are comparable to those necessary for any of the INTEGRA III SYSTEM cards. They are as follows:	 2- While monitoring the output at pin K1 Out (Pin #11) ground switch #1 (Pin #2). Check for proper signal leve at the output pin. 3- Repeat steps 1 & 2 for each switch channel on the Model 655B. 	
1- Mount the card frame in an appropriate EIA 19" width rack, using 4 screws of sufficient tensile strength to provide secure mounting.	This completes the installation and alignment of you Model 655B Reed Relay Switching Card. The card(s) may be expected to deliver years of uninterrupted service.	
2- A determination has been made as to which type of power supply will be used on your system. Follow the instructions for the type of power supply you will be installing.		
EXTERNAL POWER SUPPLY. If an external power supply is to be used, terminate the proper supply connections to pins 1, 2, & 3 of the DC connector, as shown in the card frame layout drawing Turn on the power supply, and using a DC voltmeter, check for correct voltage and polarity at pins 1, 2, & 3 of of the DC connector.	Note 1- The alignment procedures for INTEGRA III SYSTEN cards, differ from card type to card type. Therefore it is necessary to consult the alignment procedure for each	
INTERNAL POWER SUPPLY. If a plug-in power supply card is to be used, plug in the supply card, and check for proper illumination of both plus and minus DC green LED's.	type of card being installed, to properly align a card fra using different card types.	
3- Terminate all input, output, and switch connections, using the card connection drawing on the facing page. Shielded cable is recommended for all audio connections.		

PROTECH AUDIO[®]

857B & 858B BACKPLANE CONNECTIONS

	16	\oslash
	17	\oslash
	18	\oslash
K1 IN	19	\oslash
K2 IN	20	\bigcirc
K3 IN	21	\bigcirc
K4 IN	22	\bigcirc
K5 IN	23	\bigcirc
K6 IN	24	\bigcirc
K7 IN	25	\bigcirc
K8 IN	26	\bigcirc
K5 OUT	27	\bigcirc
K6 OUT	28	\bigcirc
K7 OUT	29	\bigcirc
K8 OUT	30	\bigcirc
K8 OUT	30	\bigcirc

SPECIFICATIONS

RELAY TYPE
CONTACT FORM
CONTACT RATING (SWITCHING)
CONTACT CARRY CURRENT
POWER REQUIREMENTS
RELAY ENABLE
SIZE
TEMPERATURE

INTEGRA III SYSTEM

CONNECTOR & PROGRAM DRAWING MODEL 655B

GROUND RELAY SWITCH PINS TO ACTIVATE RELAYS

\oslash	1	K2 SWITCH
\oslash	2	K1 SWITCH
\oslash	3	GROUND
\oslash	4	K3 SWITCH
\bigcirc	5	K4 SWITCH
\bigcirc	6	K5 SWITCH
\bigcirc	7	K6 SWITCH
\bigcirc	8	GROUND
\bigcirc	9	K7 SWITCH
\bigcirc	10	K8 SWITCH
\bigcirc	11	K1 OUT
\bigcirc	12	K2 OUT
\bigcirc	13	GROUND
\bigcirc	14	K4 OUT
\bigcirc	15	K3 OUT

 Reed
 1A
 0.75 Amps DC
 1.5 Amps
 +18-24VDC At 48ma per card
 External Switch to Ground
 2.5"H x 8.0"D x 1.1"W
 0-70 Degrees C