

PRO700

MULTIPURPOSE RELAY UNIT

CAMERA SWITCH



when communication is critical

FEATURES

- 8 programmable relays for operation of camera when calling stations

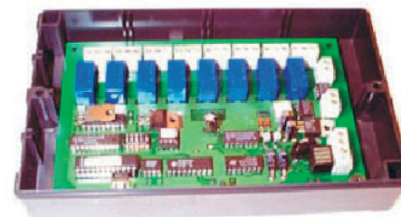
DESCRIPTION

The GH750 is a Multipurpose Relay Unit equipped with 8 relays. The unit is connected in the Pro700 cable network as a normal station, but requires normally no call number programming. The relays can be individually programmed to operate for various event combinations of stations initiating calls and stations receiving calls. The relays can be programmed to be operating as long as the call is established, or for pulse operation, and the time duration for operation can be set. If required, such calls could also be connected to a tape recorder for recording purposes. The relays can also be programmed to operate when any subscriber calls the Group Call, All Call or Doorbell features. External devices controlled by the relays could be CCTV switches, etc.

An autoscan function can be activated by an external closing contact, which will step the relays in sequence. The number of relays in the scanning sequence can be from 3 to 8, and the autoscan time interval can be set to 8 or 16 seconds. The unit supervises the Pro700 line and operates the relay(s) when the right combination of calling and called extension number occur.

GH750 can also be programmed to operate on any specific called extension number. This way the unit operates as a remote control unit. One or several relays can operate.

The unit will monitor the 32Khz data information on the data/audio pair, and the 8 built-in relays on the card will operate according to the data programmed in EEPROM U7, or by switch SW1. If GH750 is given a call number, it can be called as a normal station and the relays will operate according to the preprogrammed data. The call number is programmed in EEPROM, U7.



SPECIFICATIONS

Order number	GH750 Multipurpose Relay Unit
Operation Voltage	12 - 27 VDC
Current drain max.	150 mA
Line specification	Galvanic line, 3 twisted pairs, 0.5/0.6 mm telephone cable
Max distance between power and a GH750 Unit	12 VDC: 100 m (330 ft) 18 VDC: 300 m (1000 ft) 24 VDC: 500 m (1600 ft)
Max. total capacity on the cable network	87 nF
Max. cable run in a system	Standard cable quality: 120 nF/km-700 m/2100 ft Good cable quality: 47 nF/km-1700 m/5100 ft
Audio output	Balanced 600 ohm/0 dBm
Relay output	Switching contacts, max. 50 V/60 VA
Relay spec.	12 - 30 VDC / 29 mA

ORDER NUMBER	DESCRIPTION	SHIP WEIGHT
3007600030 GH750	GH750 Multipurpose Relay Unit	0.1 kg/0.2 lbs.

MULTIPURPOSE RELAY UNIT, CAMERA SWITCH

Dimensions	Depth: 65 mm Width: 145 mm Length: 220 mm
PC board size	160 x 100 mm
Software version	JM0.2

OPERATION

Mode 1

The operation of the 8 relays can be controlled via conditions individually programmed for each call number, into the on-board EEPROM. All switches on the switch package SW1 must be OFF. An audio output is available for speech logging to a tape recorder etc.

A customised event table can be programmed into an EEPROM. One 8 pins serial EEPROM from XICOR, type X24C02 is used. A table of totally 29 events can be programmed. GH750 is delivered with pre-programmed data according to a specific table. If other events are required for custom made functions, then the EEPROM must be modified directly by using your prom-programmer. Several GH750 units can be installed in the same installation.

Mode 2A

The operation of the 8 relays can be automatically controlled via a fixed program in the on-board

micro-controller. The operation sequence is then programmed via the on-board switch package SW1. and the EEPROM must be removed from the board.

The relays can be operated in steps manually by connecting an external voltage to the on-board optocoupler via a push button. After release of the button the relay will remain operated for 8 or 16 seconds.

The next relay will operate as soon as the button is pressed again. If the button is kept pressed, then the relays will be scanned automatic as long as the button is being pressed. All 8 relays can be scanned, or fewer according to the switch programming. In idle, when the button is not pressed, then relay no.1 may be left ON. Each relay will operate when one specific call number is identified in the number range from 21 to 28. Relay no.1 will operate on call to number 21 and relay no.8 will operate on call to number 28. When for example 25 is called, then relay no.5 will

operate, and remain operated until connection is cancelled.

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Mode 2B

The operation of the 8 relays can be manually controlled via an optocoupler input. This operation sequence is then programmed via the on-board switch package SW1, and the EEPROM must be removed from the board.

The relays can be operated in steps automatically. Each relay will remain operated for 8 or 16 seconds. All 8 relays can be scanned, or fewer according to the switch programming. Each relay will operate when one specific call number is identified in the number range from 21 until 28. Relay no.1 will operate on call to number 21 and relay no.8 will operate on call to number 28. When for example 25 is called, then relay no.5 will operate, and remain operated until connection is cancelled. The scanning will then continue.

