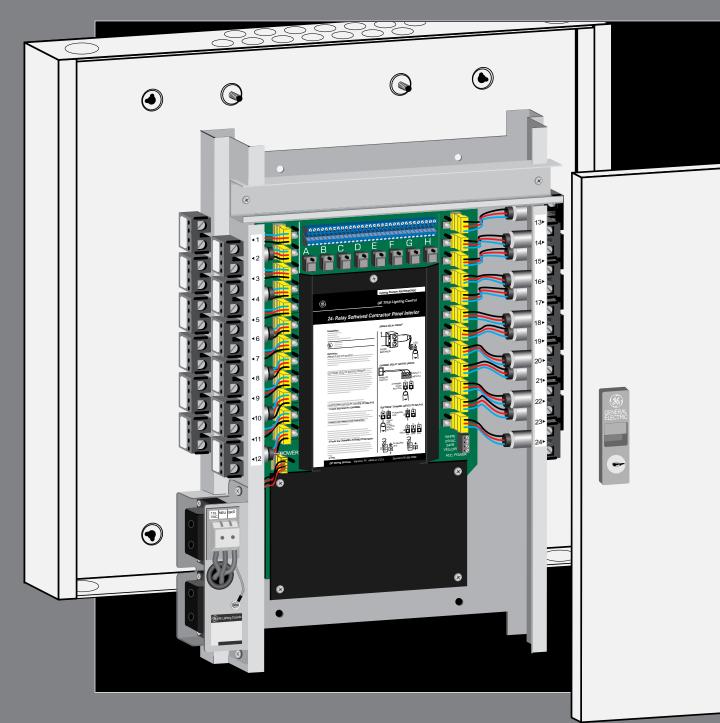
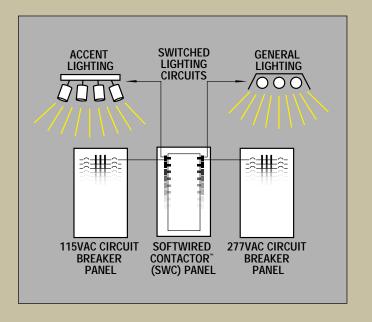


GE Total Lighting Control



Softwired Contactor Panels





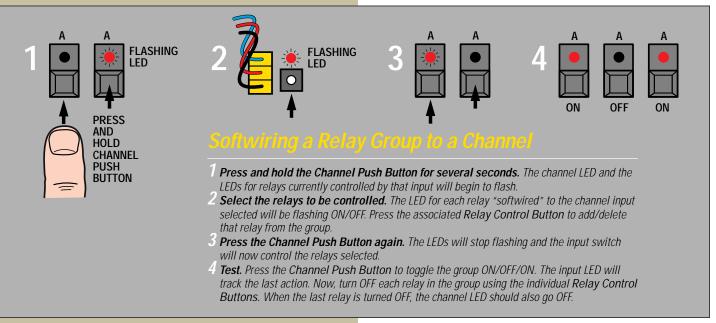
Creating Functional Lighting Groups

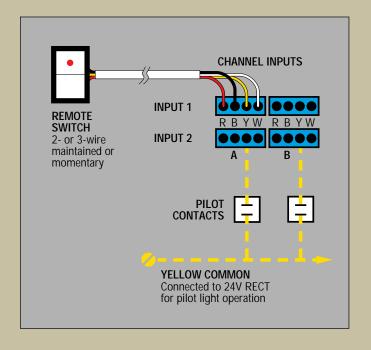
In many applications, particularly stores and malls, lighting circuits need to be grouped for common control. For example, within a store, General Lighting provides the foundation for visibility or color; Perimeter Lighting provides a pleasing brightness and visual excitment to wall displays; and Incandescent Accent/Showcase Lighting adds visual impact and drama.

The first step in controlling the lighting is to define these functional groups and circuit them accordingly. The second step is to group these circuits for both manual and automatic control.

The GE TLC Softwired Contactor™ provides a simple, low-cost, flexible approach to grouping lighting circuits for both manual and automatic control.

Each lighting circuit is wired through one of the standard relays in the factory assembled panel. The relays controlling a functional lighting group can then be "softwired" to a channel in seconds. 24-relay panels are supplied with 8 channels; 36- and 48-relay panels have 16 channels. The groupings can be changed at any time without shutting the panel down or touching the wiring.





Controlling Functional Lighting Groups

Each channel, or group of relays, has an associated Channel Push Button with LED status indication. Pressing this button toggles the channel group ON/OFF. The Channel Push Buttons may be used as manual overrides. However, in a typical application we often wish to provide local switches to control the functional lighting groups.

Each channel has two switch inputs. The first of these may be wired to a standard low-voltage switch mounted in the area. To provide Master Control of several lighting groups, a spare channel may be softwired to include all of the relays in these groups. When the Master turns all of the relays ON/OFF, each of the "sub-group" channels will also relflect the correct status... each channel LED (and pilot contact) tracks the state of the relays within its group.

The second input on a channel may be wired to the building's automation system or to a timeswitch. Using the Master switch concept above, a single BAS or timeclock input can control multiple groups which share a common schedule.

Each channel also has an isolated pilot contact which tracks the channel LED status. These may be used either to control a pilot light switch as shown or to provide feedback to the automation system.

GE TLC Softwired Contactor™ Panels Shown: RINTER4848SC 48-Relay Interior (A complete panel consists of a Tub, Interior, Power Supply and Cover. See next page.) Channel Push Button Toggles that channel's Channel Inputs associated relays Two separate inputs for each ON/OFF. channel. Each will accommodate either 2- or 3-wire, maintained or momentary inputs. Accessory Isolated Pilot Device **Contacts** Power Tap 1 amp, 30 volt DC 24 volt AC, 40VA pilot contacts for powering indicate channel timeclocks or other status. All relays controls. 24 volt ON = closed; rectified for OFF = open. powering pilot ~,êê lights (connects <u>. ê</u>êê to pilot relay える 一番 **Power Supply** common). 115 volt or 277 volt AC (347V in Canada). Two 40VA Accessory transformers with Mount Plate GE-MOV transient Optional plate protection. for mounting accessory devices. 9" wide x 6" high **EEPROM** x 3" deep. Memory All "softwiring connections" and status data stored in EEPROM. 40-year memory with no battery or backup requirements. RR7P3 Mechanically-Latching Relay 20 amp, 277 volt (347V in Canada). Rated for 50,000 cycles. Tungsten, Individual Relay Control fluorescent or HID. Button (with LED status) Used to control relay ON/OFF or to add/delete relay to channel group. Softwired Contactor is a trademark of GE Total Lighting Control

Catalog Component Number Description

RTUB12 Tub for 12-Relay Interior

RINTER1212SC 12-Relay Softwired Contactor™

Interior, 4 Channels, 2 Inputs per channel, 4 Pilots

RCOV12SL Surface-mount, Hinged, Lockable

Cover for RTUB12

RCOV12FL Flush-mount, Hinged, Lockable

Cover for RTUB12

RTUB24 Tub for 24-Relay Interior

RINTER2424SC 24-Relay Softwired Contactor™

Interior, 8 Channels, 2 Inputs per channel, 8 Pilots

RCOV24SL Surface-mount, Hinged, Lockable

Cover for RTUB24

RCOV24FL Flush-mount, Hinged, Lockable

Cover for RTUB24

RCOV24SHL Surface-mount, Hinged, Lockable

Cover for RTUB24 with Windowed Door for Low-voltage Section

RCOV24FHL Flush-mount, Hinged, Lockable

Cover for RTUB24 with Windowed Door for Low-voltage Section

RTUB48 Tub for 36- or 48-Relay Interior

RINTER3648SC 36-Relay Softwired Contactor™

Interior, 16 Channels, 2 Inputs per channel, 16 Pilots

RINTER4848SC 48-Relay Softwired Contactor™

Interior, 16 Channels, 2 Inputs per channel, 16 Pilots

RCOV48SL Surface-mount, Hinged, Lockable

Cover for RTUB48

RCOV48FL Flush-mount, Hinged, Lockable

Cover for RTUB48

RCOV48SHL Surface-mount, Hinged, Lockable Cover for RTUB48 with

Windowed Door for Low-voltage Section

RCOV48FHL Flush-mount, Hinged, Lockable

Cover for RTUB48 with Windowed Door for Low-voltage Section

RPWR115 115 volt AC (±10%),

50-60 Hz Power Supply

RPWR277 277 volt AC (±10%),

50-60 Hz Power Supply **RPWR347** 347 volt AC (±10%).

50-60 Hz Power Supply, Canada

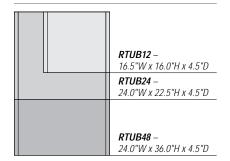
RACCESSBRK12 Accessory Mount Bracket for

12-Relay Interior

RACCESSBRK Accessory Mount Bracket for

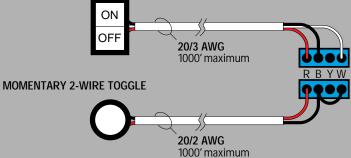
24-, 36- and 48-Relay Interiors

Dimensions

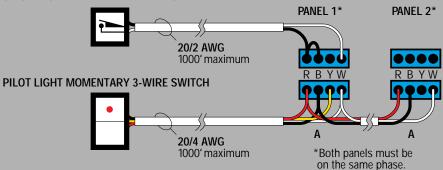


Manual Switching Inputs



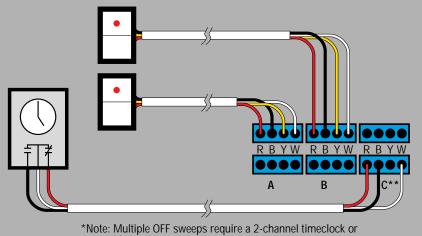


SINGLE POLE MAINTAINED 2-WIRE SWITCH



Automation Inputs

SCHEDULE ON/OFF* CONTROL OF MULTIPLE CHANNELS



one with momentary outputs.
*C is softwired to include A and B.

For more detailed information, contact your local GE TLC representative, or call 1-877-LTG-CNTL (584-2685).



GE Total Lighting Control



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GE Canada Lighting 2300 Meadowvale Boulevard Mississauga, Ontario, Canada L5N 5P9

GEA SWC1A 10M 3/95