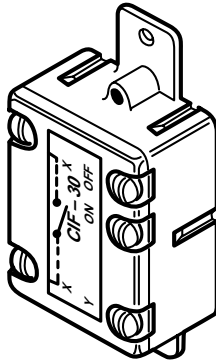


Installation Instructions for the IFM and CIF-30 Interface Modules

CIF-30 — Interface Module

An ILC Control Interface (CIF-30) provides for control of one (1) to thirty (30) ILC Transformer Relays (TR-120, TR-277, TR-120A, TR-277A) interconnected with ILC Interface Module(s), IFM(s) from a SPST switch or relay contacts. A typical circuit diagram is shown.



Installation

Step 1. Use mounting strap to secure CIF-30. The module may be installed in a standard utility box, relay cabinet or other technique conforming to local code requirements. Mount near the SPST contacts. See Figure 1 and 2.

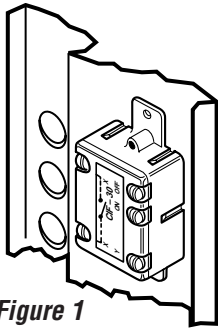


Figure 1

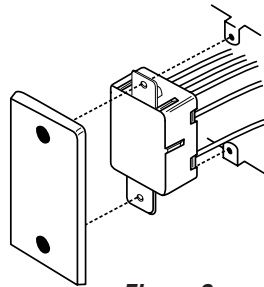


Figure 2

Step 2. Use suitable low-voltage wiring to connect CIF-30 to IFM(s) and SPST switch as illustrated in Figure 3.

Step 3. Connect the "OFF" terminal of the CIF-30 to the "OFF" terminal of IFM(s) ("OFF" only control.)

Step 4. Connect the "ON" terminal of the CIF-30 to the "ON" terminal of IFM(s) if "ON" control is desired. ("ON" only control not possible.)

Step 5. Connect the "X" and "X" terminals of the CIF-30 to the SPST contacts.

Step 6. Connect all yellow TR leads to the "Y" terminal of the CIF-30.

NOTE: No separate transformer is required for relay operation.

For operation of one TR only with CIF-30, connect brown wire to "ON" and "OFF" terminal of CIF-30.

CIF-30 Control of Multiple Line Voltage Circuits

NOTICE: The maximum distance (one way) between a TR and a CIF-30 is related to the size of low voltage conductors, layout of the low-voltage network and number of TRs on the same circuit. The limit for a specific situation can be estimated from Table. A TR may not respond to operation of the CIF-30 if this limit is exceeded.

NOTE: Switch loop values are based on worst case conditions.

To determine maximum distance (one way) between a TR and a CIF-30 divide the single case value by the number of TRs in the circuit.

For example: 18 Gauge and 19 TRs is $2118/19 = 111$ feet one way.

NOTICE: Locate CIF-30 near the IFM.

Wire Gauge	Single Relay (Feet)
28	192
26	335
24	536
22	850
20	1213
18	2118
16	3378
14	5434
12	8333

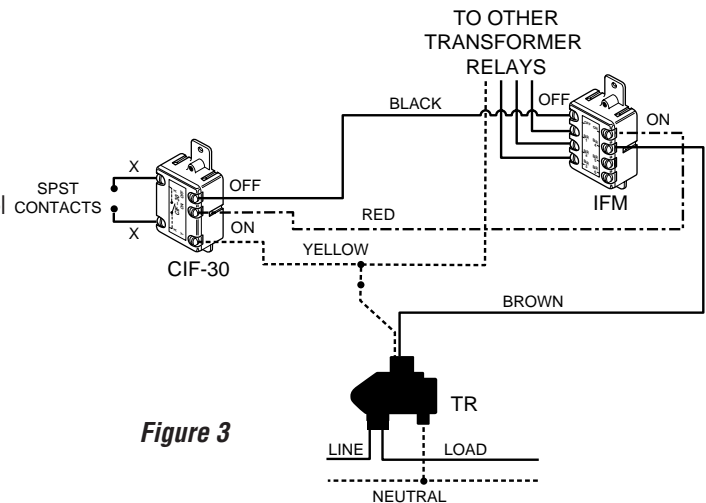


Figure 3



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NOTICE: It is recommended that the Applications Manual be referred to prior to installation of any and all of the ILC brand RCSS components.

In this manual, the ratings or listings of devices for use with a certain conductor size, material or type of insulation, are not meant to imply suitability of that conductor for any specific applications. Such ratings or listings are based on Underwriters Laboratories, Inc. and/or National Electrical Manufacturers Association standards and are to be understood to be the ratings of the device itself and not that of any conductor which may be attached to the device.

CAUTION must be exercised in selecting conductors in accordance with their current-carrying and voltage capacities...consult the National Electrical Code for Specific applications.

CAUTION: Devices in the RSCC product line are NOT intended for use with aluminum conductors unless specifically stated as suitable for use with aluminum conductors.

CAUTION: Installation must be in accordance with applicable installation instructions, and all local, state, NFPA, (NEC, etc.) or NEMA standards and performed by a qualified and skilled installer.

Important Notice

RCSS Warranty and Limitation of Liability

We believe all statements, technical information and recommendations contained herein to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, express or implied: ILC Intelligent Lighting Controls, Inc. (ILC) will repair or replace, at ILC's option, parts proved to be defective within one year after installation. ILC does not warrant and declines all the responsibility for failure of parts which, at the sole discretion of ILC, shall have resulted from accident, abuse, improper installation or misapplication of the

product. Except for such repair or replacement of defective parts, ILC assumed no other liability of any kind for any damage or loss, direct, incidental or consequential, regardless of legal theory, including strict liability and negligence. The repair or replacement set forth herein is the sole and exclusive remedy. ILC neither makes nor assumes any warranty of merchantability or fitness for any particular purpose. No alteration of this Warranty and Limitation of Liability shall bind ILC unless the alteration is in writing and signed by an officer of ILC.



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