SIEMENS RM-30RU Releasing Device Module Instruction Manual

Contents

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SIEMENS RM-30RU Releasing Device Module

Description

The Releasing Device Modules, Models RM-30U and RM-30RU are designed to operate and supervise solenoid valves or relays used for release of extinguishing systems and to operate and supervise relays used for door closing/opening or fan control. The RM-30U and RM-30RU are functionally the same except that the RM-30RU incorporates three (3) series resistors that are used to adjust the resistance of the circuit to compensate for varying numbers of solenoids. Release logic and subsequent activation of the modules are governed by appropriate zone and control modules in the System 3 control panel.

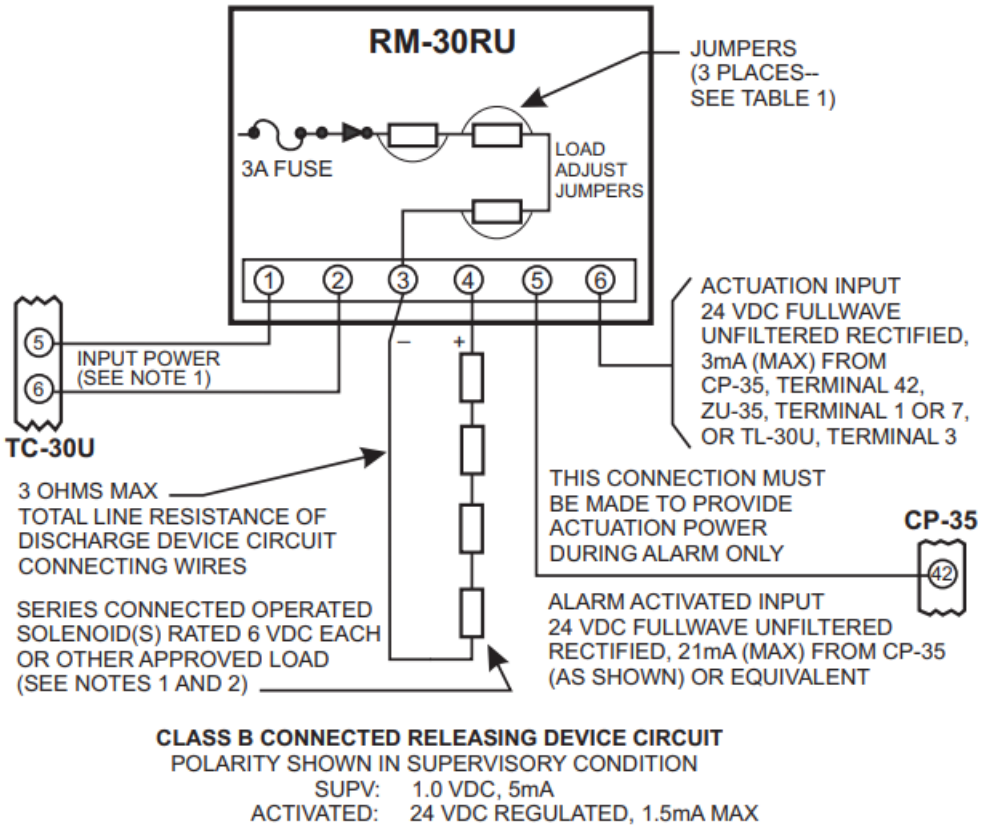
The modules are suitable for continuous duty when used with continuous-duty solenoids. Dual input signals are required for activation of these modules and a release takes place when a high going signal is present on both of the input terminals. These input signals are compatible with the outputs available from the System 3 zone and control modules. All agent release logic, time delays, etc., are performed ahead electrically of the RM-30U/ 30RU by utilizing such System 3 modules as ZU-35 Zone Module, PM-31 Program Matrix, TL-30U Timer, and SR-32 Relay Module. The separate release power input terminals extend the modules' versatility and reduces the load on the 10-conductor system bus.

A circuit disconnect switch is provided to deactivate the module during servicing of the system. When the switch is in the off position, a local supervisory LED will be illuminated and an audible will sound. The modules are provided with a yellow LED trouble indicator to show an open release circuit condition when the system is not in alarm. The LED indicator can be lamp tested from the control panel. In addition all wiring is monitored by the control panel for ground faults. The module is also provided with a supervisory LED, buzzer and silence switch. As noted above, activating the disconnect switch activates the supervisory signal. When there is no disconnect condition and the supervisory silence switch is in the silence condition, a trouble signal is activated. The modules are placement supervised, providing a trouble signal on removal from the system.

Electrical Information

- **Module current requirement:**
  - Normal supervisory – 6mA @ 24VDC
  - Released energized – 1.5A maximum @ 24VDC
  - Maximum line resistance – 3 ohms for typical approved load.

NOTES for RM-30RU

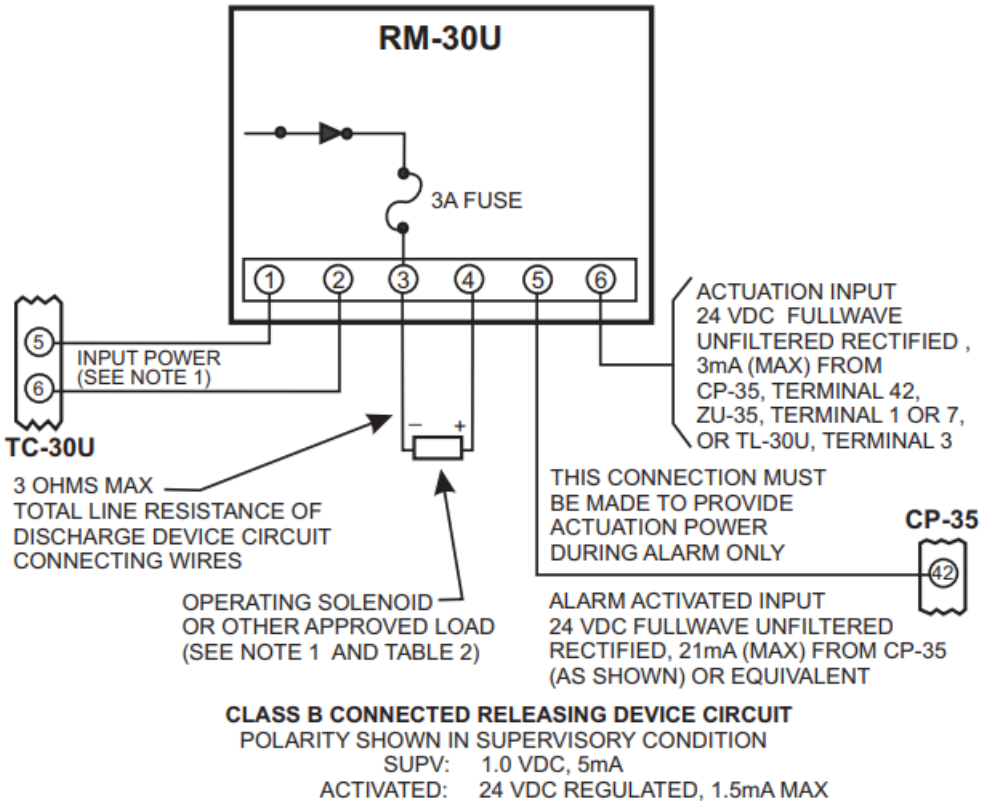


CLASS B CONNECTED RELEASING DEVICE CIRCUIT
POLARITY SHOWN IN SUPERVISORY CONDITION
SUPV: 1.0 VDC, 5mA
ACTIVATED: 24 VDC REGULATED, 1.5mA MAX

1. Operating solenoids, relay, or other approved loads operate from a 24 VDC source. Use Battery Transfer Modules BC-35 or DC Program Plug JP-D in P2 of the CP-35.
2. The RM-30RU Releasing Device Module may be used to activate up to four 6 VDC solenoids. Table 1 describes the only acceptable combinations of solenoids and/or resistors. Any other combination not described in Table 1 is not permitted.
3. Solenoid supervised for open only.
4. All terminals are non-power limited. For wiring instructions refer to the EB-31/-32/-33/-35 Installation and Power Limited Wiring Instructions, P/N 315-093680. If power limited wiring is desired use the PLM-35, P/N 315-093495.
5. For releasing diagram connections of RM-30RU, refer to P/N 315-049675. The abort switch can have precedence over the manual release function, or the manual release can have precedence over the abort switch.

- Four series connected 6V solenoids must be used.
- It is not permitted to mix one 12 VDC solenoid with any combination of the 6 VDC solenoids and/or resistors.

NOTES for RM-30U



CLASS B CONNECTED RELEASING DEVICE CIRCUIT
POLARITY SHOWN IN SUPERVISORY CONDITION
SUPV: 1.0 VDC, 5mA
ACTIVATED: 24 VDC REGULATED, 1.5mA MAX

1. Operating solenoids, relay, or other approved loads operate from a 24 VDC source. Use Battery Transfer Modules BC-35 or DC Program Plug JP-D in P2 of the CP-35.
2. For NFPA 13 Automatic Water Control Valve Release, use an electric solenoid valve.
3. For NFPA 2001 Releasing Service, use only an approved electric actuator. See Table 2.
4. Solenoid supervised for open only.
5. All terminals are non-power limited. For wiring instructions refer to the EB-31/-32/-33/-35 Installation and Power Limited Wiring Instructions, P/N 315-093680. If power limited wiring is desired use the PLM-35, P/N 315-093495.
6. For releasing diagram connections of RM-30U, refer to P/N 315-049675. The abort switch can have precedence over the manual release function, or the manual release can have precedence over the abort switch.

Application	Siemens Model	Vendor Part Number	Number of Solenoids in Series
NFPA 13 *(Preaction Deluge)*	N/A	ASCO T8210A107	One 24 VDC
	N/A	ASCO R8210A107	One 24 VDC
NFPA 2001	CPYEC-6	ASCO HV218532-6	One 6 VDC
(HFC-227ea)	CPYEC-6	ASCO HV218532-6	Two 6 VDC
	CPYEC-6	ASCO HV218532-6	Three 6 VDC
	CPYEC-6	ASCO HV218532-6*	Four 6 VDC
	CPYEC-12	SNAPTITE 2823A-2NB-A4F5**	Two 12 VDC
	CPYEC-24	SNAPTITE 2823A-2NB-A4F6	One 24 VDC

- Any solenoid not described in the table is not permitted.
- Four series connected 6V solenoids must be used.
- It is not permitted to mix one 12 VDC solenoid with any combination of the 6 VDC solenoids.

FM Approval

- Refer to the System 3 Pre-Action Sprinkler Control Diagram (P/N 315-091776) for an FM approved configuration.

NOTE: THE RELEASING DEVICE MUST BE AN FM-APPROVED ELECTRIC SOLENOID VALVE FOR AN AUTOMATIC WATER CONTROL VALVE RELEASE.

ADDRESS

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Documents / Resources

	SIEMENS RM-30RU Releasing Device Module [pdf] Instruction Manual RM-30U, RM-30RU Releasing Device Module, Releasing Device Module, Device Module, Module

References

- Fire Alarm Resources | Download fire alarm documents