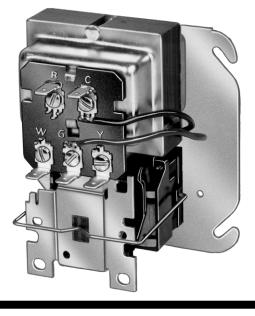
Honeywell

R8285A-G, J, K Control Centers

R8285 Control Center provides low voltage control of line voltage fan motors and auxiliary circuits in heating, cooling, or air-conditioning systems.



- 120, 208/240, and 120/208/240 Vac models available.
- R8285A has spdt switching for two-speed fan motor applications.
- R8285B has dpdt switching for *Total Comfort* application with electronic air cleaner, humidifier, and blower motor.
- R8285C has spst switching for one-speed fan motor applications.
- R8285D has dpst switching for one-speed fan motor and limit controller applications.
- R8285E has dpst switching for two-speed fan motor and limit controller applications.
- R8285F has dpst switching for one-speed fan motor and auxiliary load applications.
- R8285G has spst switching for one-speed fan motor applications.

- R8285J,K allows the addition of an R8222 or R8228 Relay without rewiring. Used when a cooling system will be added later.
- 40 or 50 VA transformer powers low voltage control systems and provides overload protection.
- Low voltage terminal board provides convenient connections for thermostat and heating and cooling equipment control circuit wiring.
- Control center mounts on standard 4 x 4 inch square junction box.
- Relay is easily replaced without disturbing wiring.
- Ground screw provided on mounting plate.

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IMPORTANT: The specifications given in this publication do not include normal manufacturing tolerences. Therefore, units may not exactly match the listed specifications. Also, this product is tested and calibrated under closely controlled conditions, and some minor differences in performance can be expected if those conditions are changed.

TRADELINE® MODELS

TRADELINE models are selected and packaged for ease of handling, ease of stocking, and maximum replacement value. TRADELINE model specifications are the same as those of standard models, except as noted. TRADELINE MODELS:

R8285A Control Center.

R8285B Control Center.

TRADELINE FEATURES AVAILABLE:

All TRADELINE models are packed with cross refence label and special installation instructions.

STANDARD MODELS:

R8285J Control Center has a receptacle and leadwires for spst and spdt relays, less R8222 or R8228 relay. Used when cooling will be added later.

R8285K Control Center has a receptacle and leadwires for dpdt and dpst relays, less R8222 or R8228 relay. Used when cooling will be added later.

TRANSFORMER RATINGS:

- Power Rating: 40 or 50 VA.
- Primary Voltage: Either 120, 208/240, or 120/208/ 240 Vac.

STANDARD MODELS

Fan	Replacement		ntact ting		Input Voltage	See Wiring
Center	Relay	AFL	ALR	Switching	(Vac)	Diagram
R8285A	R8222B	12	60	Spdt	120,	Fig. 2
R8285B	R8222D	12	60	Dpdt	208/240	Fig. 3
R8285C	R8222A	12	60	Spst	or 120/	Fig. 4
R8285D	R8222U	12	60	Dpst	208/240 ^a	Fig. 5
R8285E	R8222F	12	60	Dpst	1	Fig. 6
R8285F	R8222C	12	60	Dpst] [Fig. 5
R8285G	R8228A	16/18	96/72	Spst		Fig. 4
R8285J	R8222	12	60	Spst or Spdt] [Fig. 7
	R8228	16/18	96/72]		
R8285K	R8222	12	60	Dpst or Dpdt	1	Fig. 7
	R8228	16/18	96/72			

TABLE 1-R8285 MODEL SPECIFICATIONS.

^a Specify when ordering.

Ordering Information

When purchasing replacement and modernization products from your TRADELINE[®] wholesaler or distributor, refer to the Tradeline Catalog or price sheets for complete ordering number, or specify—

- 1. Order number.
- 2. Accessories, if desired.
- 3. Order additional system components and system accessories separately.

If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:

- 1. Your local Home and Building Control Sales Office (please check the white pages of your phone directory).
- 2. Home and Building Control Customer Satisfaction
 - Honeywell, Inc., 1885 Douglas Drive North
 - Minneapolis, Minnesota 55422-4386 (612) 951-1000

In Canada—Honeywell Limited/Honeywell Limitee, 740 Ellesmere Road, Scarborough, Ontario M1P2V9. International Sales and Service Offices in all principal cities of the world. Manufacturing in Australia, Canada, Finland, France, Germany,

Secondary Voltage for 40 VA at 1.67 Amps: 24 Vac. Secondary Voltage for 50 VA at 2.08 Amps: 24 Vac. Open Circuit Secondary Voltage: 27.0 volts. Overload Protection: Inherent. Voltage Frequency: 60 Hz.

CONTACT RATINGS: Refer to Tables 2 and 3 for contact ratings of both normally open and normally closed contacts.

TABLE 2-R8285A-F CONTACT RATINGS.

Voltage	120 Vac	208/240 Vac
Full Load (amp)	12	6
Locked Rotor (amp)	60	35

TABLE 3-R8285G CONTACT RATINGS.

Voltage	120 Vac	208/240 Vac
Full Load (amp)	16/18	18
Locked Rotor (amp)	96/72	72

RELAY COIL RATINGS:

Inrush: 20 VA maximum.

Sealed: 9 VA.

Wattage: 5 watts.

Pickup Voltage: Must pick up below 18 volts. (R8285A1022 must pick up below 176 volts.) PILOT DUTY RATINGS FOR R8285D PILOT DUTY

POLE:

Minimum: 3 VA at 24, 120, 240, and 480 Vac.

- Maximum: 25 VA at 24 Vac, 125 VA at 120, 240, and 480 Vac.
- Resistive: 3 amps at 277 Vac (0.75 power factor).
- Powerpile[®] (Millivoltage): The normally open pilot duty contacts are rated for Powerpile (Millivoltage) applications: 0.25 amp at 0.25 to 12 Vdc.
- TRANSFORMER PRIMARY LEADWIRE COLOR CODE:

Black and White: 120V.

Black-Common: 208/240V.

Red: 208V.

Orange: 240V.

- LEADWIRE COLOR CODES: Refer to Table 4 for leadwire color codes.
- LEADWIRES: 11 inch color-coded leadwires.
- RELAY COIL LEADWIRE COLOR CODE: Black lead connected to C terminal and blue lead connected to G terminal.

POWER CONSUMPTION: 11.0 watts maximum.

CONTACTS: Silver cadmium oxide.

- MOUNTING: Mounts on standard 4 inch square junction box.
- DIMENSIONS: Refer to Fig. 1 for installation dimensions.
- UNDERWRITERS LABORATORIES INC. LISTED: File No. E113671

CANADIAN STANDARDS ASSOCIATION COMPO-NENT RECOGNIZED:

R8285A-G: File No. LR85839

R8222 (all models): File No. LR35066.

Model	Switching	Pole	Leadwire Color
R8285A	Spdt	_	Black—Common Red—N.O. Contact Brown—N.C. Contact
R8285B	Dpdt	Pole 1	Black—Common Red—N.O. Contact Brown—N.C. Contact
		Pole 2	Violet—Common Red/Yellow—N.O. Contact Yellow—N.C. Contact
R8285C	Spst	_	N.O. Contact—Black leadwires
R8285D Dpst	285D Dpst	Pole 1 (power pole)	N.O. Contact—Black leadwires
		Pole 2 (pilot duty pole)	N.O. Contact—Red leadwires
R8285E	Dpst	Pole 1 Pole 2	N.O. Contact—Black leadwires N.C. Contact—Red leadwires
R8285F	Dpst	Pole 1 Pole 2	N.O. Contact—Black leadwires N.O. Contact—Red leadwires
R8285G	Spst	_	N.O. Contact—Black leadwires
R8285J	Spst, Spdt	Refer to Fig. 7	
R8285K	Dpst, Dpdt		

TABLE 4—LEADWIRE COLOR CODES.

R8285A-G, J,K SPECIFICATIONS

EXTERNAL LOAD: R8285 will operate the following typical Honeywell relay and/or contactor loads with up to 300 feet of No. 18 gauge wire (150 ft. run). The	R8285 CROSS REFERENCE: R8285A replaces: White					
maximum load for each application is:		RBM	Rodge		MARS	
Two R8222 Switching Relays.) -	90-113	8A94-2	2	24013	
Two R8242 Contactors.	R8239A,C					
One R8222 Switching Relay and one R8242 Con-	R8227A,B					
tactor.	R856B					
One R8242 Contactor and one R8093 Thermal	R8102					
Delay Relay.						
One R8210, R8212, or R8214 Contactor and one	R8285B replaces:					
R8222 Relay.	Honeywell	Honeywe	ll	Hone	ywell	
One R8210, R8212, or R8214 Contactor and one	Fan Centers	Transfor	mers	Relay	'S	
R8093 Thermal Delay Relay.	R8285A,B,C,E,F	AT72D		R8222	2	
ACCESSORIES: The R8285A-G function can be	R8239A,B,C,E,F	AT40		R8225	5	
achieved by adding the appropriate R8222 or R8228	R8226A,B,C	AT30A				
Relay into an R8285J,K. Order the appropriate relay	R8227A,B,C	AT20				
using Table 1 and Figs. 2 through 6.	R856B	AT12				
	R8102					
		White Ro 8A94-51	odgers	MAR 24010	~	

Fig. 1—R8285 installation dimensions in in. [mm].

