For information about electrical switches, see page 809. For information about relays, see page 862.

Don't see the relay you need? Just tell us what you're looking for and we'll get it for you.

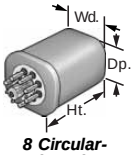
Hazardous-Location Relays

These relays are hermetically sealed to meet UL Class 1, Division 2 for use in hazardous locations. They have a maximum voltage of 240 VAC and plug into sockets (sold separately below). All relays spring back (momentary) when power is removed. They are UL and C-UL recognized and CSA certified.

Relays that ***switch two*** and ***three circuits*** are 2.05″ Ht. × 1.34″ Wd. × 1.52″ Dp. Mechanical life is 5 million cycles.

Relays that ***switch four circuits*** are 1.28″ Ht. × 0.91″ Wd. × 1.15″ Dp. Mechanical life is 10 million cycles.

Sockets are DIN-rail and surface mountable. See page 866 for more socket information.



8 Circular-Pin Relay

11 Circular-Pin Relay

14 Spade Terminal Relay

Socket for 8 Circular-Pin Relays

Socket for 14-Terminal Relays

Control Voltage	Power Consumption	Amp Rating @ 120 VAC	Amp Rating @ 24 VDC	Max. hp @ 120 VAC		Each
Switch Two Circuits "On" or "Off"—DPDT (8 Circular Pin)						
24 VAC	83 mA	12	10	1/3	7125T31	$59.63
120 VAC	16 mA	12	10	1/3	7125T32	59.63
12 VDC	100 mA	12	10	1/3	7125T33	59.63
24 VDC	50 mA	12	10	1/3	7125T34	59.63
Switch Three Circuits "On" or "Off"—3PDT (11 Circular Pin)						
24 VAC	83 mA	10	10	1/3	7125T22	69.26
120 VAC	16 mA	10	10	1/3	7125T23	69.26
12 VDC	100 mA	10	10	1/3	7125T24	69.26
24 VDC	50 mA	10	10	1/3	7125T25	69.26

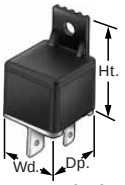
Control Voltage	Power Consumption	Amp Rating @ 120 VAC	Amp Rating @ 24 VDC	Max. hp @ 120 VAC		Each
Switch Four Circuits "On" or "Off"—4PDT (14 Spade Terminal)						
24 VAC	104 mA	3	3	___	7130T15	$46.48
120 VAC	21 mA	3	3	___	7130T12	46.48
120 VAC	21 mA	5	5	___	7130T18	51.51
12 VDC	167 mA	3	3	___	7130T16	46.48
12 VDC	167 mA	5	5	___	7130T21	51.51
24 VDC	83 mA	3	3	___	7130T11	46.48
24 VDC	83 mA	5	5	___	7130T23	51.51
Socket for Circular 8-Pin Relays					7122K19	3.96
Socket for Circular 11-Pin Relays					7122K21	6.71
Socket for 14-Terminal Relays					7122K25	8.89
35 mm DIN Rail (1 m Lg.)					8961K15	4.33

High DC Inrush Current Relays

Also called automotive relays, these relays can handle a high inrush current of up to 120 amps, unless noted. Mechanical life is rated at 10 million cycles, unless noted. Relays without a mounting tab hole diameter listed in the table do not have a mounting tab.

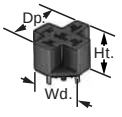
Four-pin relays have two 0.250″ wide and two 0.375″ wide quick-disconnect terminals; ***five-pin*** relays have 0.25″ wide quick-disconnect terminals. Sockets are sold separately below. ***Standard relays*** are for dry environments. Use ***weatherproof relays*** in wet or damp locations.

Printed circuit board sockets have 0.34″ long pins except 8228K11, which has 0.23″ long pins. 8228K41 is 0.50″ Ht. × 0.95″ Wd. × 1.04″ Dp. and K11 is 0.57″ Ht. × 0.95″ Wd. × 1.04″ Dp. ***Wiring harness sockets*** require accessory terminals to attach wire, except 8228K44, which has 12″ wire leads. See pages 724-725 for female straight or flag quick-disconnect terminals with a 0.250″ wide tab. 8228K43 is 1.25″ Ht. × 0.97″ Wd. × 1.15″ Dp., K42 is 1.0″ Ht. × 0.95″ Wd. × 1.04″ Dp., and K44 is 1.25″ Ht. × 1.37″ Wd. × 1.63″ Dp.



Standard Four-Pin Relay

Standard Five-Pin Relay



Printed Circuit Board Socket (Five-Pin)

Wiring Harness Socket (Five-Pin)

Wiring Harness for Weatherproof Five-Pin Relay

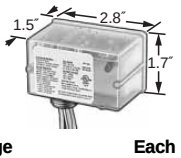
Control Voltage	Power Consumption	Amp Rating @ Control Voltage	Mounting Tab Hole Dia.	Relays Ht. × Wd. × Dp.		Each	Printed Circuit Board Sockets		Wiring Harness Sockets	
Standard Four Pin										
Switch One Circuit from "Off" to "On" (SPST-NO)										
12 VDC	160 mA	70	0.22″	1.59″ × 1.02″ × 1.02″	9672K36	$12.40	_____	___	8228K43	$3.29
24 VDC	77 mA	50	0.24″	2.15″ × 1.34″ × 1.26″	9672K37	68.80	_____	___	8228K43	3.29
Standard Five Pin										
Switches One Circuit from "Off" to "On" (SPST-NO)										
12 VDC	182 mA	30	0.22″	1.59″ × 1.08″ × 1.08″	9672K34	19.16	8228K41	$4.67	8228K42	2.43
24 VDC	77 mA	20	____	0.95″ × 1.08″ × 1.08″	9672K33	10.80	8228K41	4.67	8228K42	2.43
Switch One Circuit from "Off" to "On" or "On" to "Off" (SPDT)										
12 VDC	158 mA	35 (NO)/20 (NC)	____	0.99″ × 1.1″ × 1.1″	9672K31▲	6.49	8228K11	1.46	_____	___
12 VDC	158 mA	35 (NO)/20 (NC)	0.27″	1.61″ × 1.1″ × 1.1″	9672K32▲	7.04	8228K11	1.46	_____	___
24 VDC	85 mA	20 (NO)/10 (NC)	____	0.95″ × 1.08″ × 1.08″	9672K81	8.36	8228K41	4.67	8228K42	2.43
24 VDC	85 mA	20 (NO)/10 (NC)	0.22″	1.59″ × 1.08″ × 1.08″	9672K82	8.48	8228K41	4.67	8228K42	2.43
Weatherproof Five Pin										
Switch One Circuit from "Off" to "On" or "On" to "Off" (SPDT)										
12 VDC	158 mA	35 (NO)/20 (NC)	_____	1.81″ × 1.4″ × 1.87″	9672K43▲	6.56	_____	___	_____	___
12 VDC	158 mA	35 (NO)/20 (NC)	0.25″	2.63″ × 1.4″ × 1.87″	9672K44▲	7.34	_____	___	_____	___
24 VDC	85 mA	20 (NO)/10 (NC)	0.24″	2.65″ × 1.42″ × 1.70″	9672K35	12.08	_____	___	8228K44	27.86

▲ Can handle a high-inrush current of 150 amps and has a mechanical life of 1 million cycles.

Harsh Environment Relays

Water washdowns? Dirt? Corrosion? Bring 'em on! They won't affect these NEMA 4X rated enclosed relays. These relays don't even require a socket; instead, they have 16″ long wire leads through a ½″ trade size conduit connection. All have an LED indicating light and two 0.15″ dia. mounting holes for surface mounting (hardware included). Size is 1.7″ Ht. × 2.8″ Wd. × 1.5″ Dp. They spring back (momentary) when power is removed. Mechanical life is 10 million cycles. UL and C-UL listed.

4766T15 has a dry contact closure. It requires a 120-277 VAC circuit to operate and actuates when it receives a low-current signal from your thermostat or other device.



Control Voltage	Power Consumption	Amp Rating	Max. hp Rating	Max. Voltage		Each
Switch One Circuit "On" or "Off" (SPDT)						
10-30 VAC/VDC, 120 VAC	25 mA @ 120 VAC, 16 mA @ 24 VDC	10 @ 120 VAC	0.33 hp for NO @ 120 VAC	277 VAC	4766T11	$28.54
10-30 VAC/VDC, 208-277 VAC	35 mA @ 208-277 VAC, 16 mA @ 24 VDC	10 @ 120 VAC	0.33 hp for NO @ 120 VAC	277 VAC	4766T12	31.02
120-277 VAC	50 mA @ 240 VAC	10 @ 250 VAC	0.50 hp @ 125 VAC	250 VAC	4766T15	33.54
Switch Two Circuits "On" or "Off" (DPDT)						
24 VAC/VDC, 120 VAC	28 mA @ 120 VAC, 22 mA @ 24 VDC	10 @ 277 VAC	0.50 hp for NO @ 120 VAC	277 VAC	4766T13	42.22
24 VAC/VDC, 208-277 VAC	32 mA @ 208-277 VAC, 22 mA @ 24 VDC	10 @ 277 VAC	0.12 hp for NC @ 120 VAC	277 VAC	4766T14	44.80