



P&B, SCHRACK, and OEG general purpose relays

Potter & Brumfield, SCHRACK, and OEG General Purpose Relays

Potter & Brumfield, OEG, and SCHRACK relays from Tyco Electronics offer an exceptional range of capabilities. Our many different contact arrangements, materials, and styles enable the selection of a model with switching characteristics that closely match a customer's specific requirements. Many models are offered with either AC or DC coils, and some series provide a range of sensitivity options. An array of mounting and termination options allows for even greater design flexibility.

Features ▶

- Industrial contact ratings from dry circuit to 16A
- Contact arrangements from SPST-NO through 8 PDT
- Broad range of coil options
- Expansive array of termination, mounting, and socket options

Benefits ▶

- Contact rating can be closely matched to load
- Single relay can control numerous circuits
- Pluggability of socket-mount versions eases maintenance
- Optional indicators assist in troubleshooting
- Breadth of options enhances design flexibility

Applications ▶

- Motor controls
- Electrical panels
- Production equipment
- Machine tool controls
- Integral component in control subsystems

Product Specifications ▶

Product Series	Contact Arrangements	Contact Ratings (A)	Coil Type	Mounting	Size W x D x H (inches)	Features
SNR Series	SPDT	6	DC	Socket, PC board	.20 x 1.1 x .59	Very slim case
T77 Series	SPST-NO	3-10	DC	PC board	.72 x .39 x .60	Compact size
T7C Series	SPST-NO and SPDT	5-12	DC	Socket, PC board	.80 x .65 x .81	"Sugar cube" type
RT Series	SPST-NO - DPDT	8-16	AC or DC	Socket, PC board	1.14 x .5 x .62	Low-profile case, many options available
XT Series	SPDT and DPDT	8-16	AC or DC	Socket	1.14 x .54 x 1.05	Mechanical indicator, test lever option
R10 Series	SPDT - 8 PDT	Dry circuit to 7.5	AC or DC	Socket, panel, PC board	1.17 x .74 x 1.18	Many coil and contact options
PT Series	DPDT, 3 PDT, and 4 PDT	6-12	AC or DC	Socket, PC board	.89 x 1.1 x 1.14	Low-profile case, mechanical indicator, test lever
PTH Series	DPDT and 4 PDT	6-12	AC or DC	Socket, PC board	.87 x 1.1 x 1.42	Optional integral protection, LED indicator
KHA Series	DPDT and 4 PDT	Dry circuit to 5	AC or DC	Socket, panel, PC board	1.11 x .86 x 1.28	Wide range of contact options
K10 Series	DPDT	15	AC or DC	Socket, panel, PC board	1.11 x .86 x 1.28	Optional neon indicator
KUP Series	SPDT - 4 PDT	5-10	AC or DC	Socket, panel, PC board	1.53 x 1.41 x 1.91	Optional indicator lamp, test button
RM2/3/7	DPDT and 3 PDT	10-15	AC or DC	Socket, panel, PC board	1.52 x 1.40 x 1.91	Mechanical indicator, optional test button
KRPA Series	SPDT - 3 PDT	5-10	AC or DC	Socket	1.41 x 1.41 x 2.0	Optional indicator lamp
MT Series	DPDT and 3 PDT	10	AC or DC	Socket	1.40 x 1.40 x 2.24	Mechanical indicator, lockable test lever

Note: The series listed above represent featured products. Additional product series are available.

Related Information ▶



Tyco Electronics sockets and accessories expand mounting options



Potter & Brumfield, SCHRACK, and Tyco Electronics Power Relays and Definite Purpose Contactors

P&B, SCHRACK, and Tyco Electronics power electromechanical switching products are used in many different industrial applications. Products range from compact, single-pole 30A relays that can be either panel- or PC board-mounted, to three-pole definite purpose contactors capable of switching 120 FLA. Models are available for AC or DC actuation. Options include auxiliary switches and magnetic blowouts for heavy DC loads. Various terminal options are offered.



P&B, SCHRACK, and Tyco Electronics power relays and contactors

Features ▶

- Ratings up to 120 FLA, 150A resistive at 600 VAC
- Robust construction
- AC and DC coils
- Numerous termination options

Benefits ▶

- Rated for industrial loads
- Termination options accommodate various wire sizes and types
- Test buttons on some models ease troubleshooting
- Mounting plates permit installation flexibility
- Expected electrical life of up to 200,000 operations at rated load

Applications ▶

- System power supply
- Motor control
- Compressor loads
- Welding equipment
- Resistance-heating elements

Product Specifications ▶

Product Series	Contact Arrangements	Contact Ratings	Coil Type	Mounting	Size W x D x H (inches)	Features
T9A Series Relay	SPST-NO and SPDT	30A	DC	Panel or PC board	1.27 x 1.08 x 1.1	Compact size, mounting options
T92 Series Relay	DPST-NO and DPDT	30A	AC or DC	Panel or PC board	2.06 x 1.36 x 1.21	Compact size, mounting options
KUHP Series Relay	SPDT and DPDT	20A to 30A	AC or DC	Panel or PC board	1.53 x 1.41 x 1.91	See-through case, mounting options
RMC/D Series Relay	SPST-NO-DM and SPDT-DM	30A	AC or DC	Panel	1.52 x 1.40 x 1.91	Translucent cover, optional test button
PRD Series Relay	SPST-NO - DPDT	10A to 50A	AC or DC	Panel	3.38 x 2.51 x 2.5	Optional magnetic blowout, auxiliary switch
P25 Series Contactor	3 PST-NO	25 FLA	AC or DC	Panel	2.5 x 3.8 x 3.33	Optional auxiliary switch
P30/P40 Series Contactor	3 PST-NO-DM to 4PST-NO-DM	30 FLA to 40 FLA	AC or DC	Panel	2.55 x 3.8 x 3.98	Optional auxiliary switch
P31/P41 Series Contactor	3 PST-NO-DM to 4PST-NO-DM	16 FLA to 40 FLA	DC	Panel	2.63 x 3.8 x 2.87	Direct-operated DC coil
96-3100 Series Contactor	SPST-NO-DM and DPST-NO-DM	20 FLA to 40 FLA	AC	Panel	2.1 x 3.3 x 2.54	Optional shunt on 1-pole model
98-3100 Series Contactor	3 PST-NO-DM	20 FLA to 40 FLA	AC	Panel	2.375 x 3.75 x 3.0	Test button, optional interlock/auxiliary switches
93-3100/3P Series Contactor	3 PST-NO-DM	50 FLA to 60 FLA	AC	Panel	2.75 x 3.75 x 3.56	Optional auxiliary switches
93-3100/4P Series Contactor	4 PST-NO-DM	25 FLA to 40 FLA	AC	Panel	3.05 x 3.75 x 2.63	Optional auxiliary switches
96-3186 Series Contactor	3 PST-NO-DM	75 FLA to 90 FLA	AC	Panel	3.75 x 5.0 x 4.06	Optional auxiliary switches
A-3100 Series Contactor	3 PST-NO-DM	120 FLA	AC	Panel	4.625 x 6.375 x 5.0	Optional auxiliary switches

Note: The series listed above represent featured products. Additional product series are available.

Related Information ▶

Tyco Electronics also offers thermal and magnetic circuit breakers. These secondary breakers protect components and wiring in industrial equipment.



Arrow Industrial Selector Guide

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P&B time delay and solid state relays and SCHRACK relays with forcibly-guided contacts

Potter & Brumfield Time Delay and Solid State Relays, and SCHRACK Forcibly Guided Contact Relays

Potter & Brumfield time delay relays (TDRs) allow users to easily add a simple timing function to a process—even one controlled by a PLC. Various timing functions are available and delays can range from 0.1 seconds to 9,990 hours. P&B solid state relays (SSRs) and I/O modules are well-suited to high-repetition switching applications. SCHRACK forcibly guided contact relays (FGCRs) are specifically designed for use in safety control circuits.

Features ▶

- TDRs offer many different timing functions and ranges; most offer DPDT contacts rated at 10A
- SSRs include single, dual, and quad output models
- I/O modules are series-operation compatible and come in industry-standard packages
- FGCRs comply with EN 50205 and provide a 0.5 mm contact gap, even if a fault occurs inside the relay

Benefits ▶

- TDRs permit easy control of a timed function
- SSRs are quiet and capable of a long operational life
- I/O modules permit flexibility in system configurations
- FGCRs monitor the function of safety circuits

Applications ▶

- TDRs in conveyor systems, filling operations, door operators, and other processes
- SSRs in high-cycle operations, such as lamp flashing, heater cycling, and actuator control
- I/Os interface with PLC systems
- FGCRs in safety circuits, light curtains, and elevator systems

Product Specifications ▶

Product Series	Product Type	Timing Function	Timing Range	Mounting	Size W x D x H (inches)	Type of Adjustment
CN1	Time delay relay	On delay	0.1 sec. to 9,990 hr.	Socket, panel	1.88 x 1.88 x 2.83	Thumbwheel switches for delay time
CD	Time delay relay	Delay on operate, delay on release	0.1 sec. to 180 sec.	Socket	2.41 x 1.78 x 2.94	Knob, external resistor, fixed
CG	Time delay relay	Delay on operate, delay on release, interval on	1 min. to 50 min.	Socket	2.41 x 1.78 x 2.94	Knob
CNM5	Time delay relay	Programmable – 5 functions	0.1 sec. to 9,990 hr.	Socket, panel	1.88 x 1.88 x 2.83	Rotary switch for function, thumbwheels for range and time
CNS Series	Time delay relay	Programmable – 4 and 8 function types	0.1 sec. to 100 min.	Socket, panel	1.88 x 1.88 x 2.83	DIP switch for function and range, knob for time
CNT Series	Time delay relay	Programmable – 10 timing and 2 counting functions	0.1 sec. to 9,990 hr.	Socket, panel	1.88 x 1.88 x 2.83	Thumbwheel switches for function, range, and time
Product Series	Product Type	General Description	Package Style	Mounting	Size W x D x H (inches)	Features
SSR Series	Solid state relay	Single AC output (paired SCRs), 25A to 125A	Hockey puck	Panel	1.75 x 2.25 x .87	AC or DC input, LED indicator
SSRT Series	Solid state relay	Single AC output (snubberless triacs), 10A to 25A	Hockey puck	Panel	1.75 x 2.25 x .87	AC or DC input, LED indicator
SSRD Series	Solid state relay	Dual AC output (paired SCRs), 25A to 40A	Hockey puck	Panel	1.75 x 2.25 x .89	Two relays in a common package, DC input
SSRQ Series	Solid state relay	Quad AC output (triacs), 20A	Hockey puck	Panel	1.75 x 2.3 x .85	Four relays in a common package, DC input
IAC(M) Series	Input/output module	AC input module	Standard size or slim package (M)	Mounting board, PC board	1.7 x .6 x 1.25 or 1.7 x .4 x 1.0	Color-coded yellow, hold-down screw on standard size
OAC(M) Series	Input/output module	AC output module	Standard size or slim package (M)	Mounting board, PC board	1.7 x .6 x 1.25 or 1.7 x .4 x 1.0	Color-coded black, hold-down screw on standard size
IDC(M) Series	Input/output module	DC input module	Standard size or slim package (M)	Mounting board, PC board	1.7 x .6 x 1.25 or 1.7 x .4 x 1.0	Color-coded white, hold-down screw on standard size
ODC(M) Series	Input/output module	DC output module	Standard size or slim package (M)	Mounting board, PC board	1.7 x .6 x 1.25 or 1.7 x .4 x 1.0	Color-coded red, hold-down screw on standard size
Product Series	Product Type	Contact Configuration	Contact Rating (A)	Mounting	Size W x D x H (inches)	Features
SR2M Series	Forcibly guided contact relay	2-pole (NO + NC or DPDT)	8	PC board, socket, DIN-rail	1.14 x .5 x 1.0	DIN-mount module available
SR4 Series	Forcibly guided contact relay	4-pole (2 NO + 2 NC or 3 NO + 1 NC)	8	PC board	1.57 x .51 x .63	Optional type has larger spacings for more isolation
SR6 Series	Forcibly guided contact relay	6-pole (3 NO + 3 NC, 4 NO + 2 NC or 5 NO + 1 NC)	8	PC board, socket, DIN-rail	2.17 x .65 x .63	DIN-mount module and sensitive coil type available

Note: The series listed above represent featured products. Additional product series are available.

Related Information ▶

Tyco Electronics general purpose and class 2 transformers are rated from 5 VA up to 150 VA.