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CRADLE® SERIES RELAYS



T154 and T163 Cradle Series industrial relays with versatile mounting means including solder, PC board and socket options. Sensitivity selection to match applications ranging from 20 mW to 250 mW per pole. Contact selection meet load switching requirements. UL Recognized, File E20604. CSA Certified, File LR34171.

VOLTAGE ADJUSTED DC RELAYS

Mfr. No.					
Solder Plug-In	PC Mount	Input (VDC)	Coil Resis (Ohms)	Power (mW)	Contacts
Standard Single Point 2 Amp Contacts					
T154-2C	TP154-2C	12	185	690	2PDT
T154-2C	TP154-2C	24	700	690	2PDT
T154-4C	TP154-4C	12	185	690	4PDT
T154-4C	TP154-4C	24	700	690	4PDT
T154-6C	TP154-6C	12	90	1400	6PDT
T154-6C	TP154-6C	24	430	1400	6PDT
T154-8C	TP154-8C	12	75	1900	8PDT
T154-8C	TP154-8C	24	430	1900	8PDT
Standard Single Point 5 Amp contacts					
TF154-2C	TFP154-2C	12	185	690	2PDT
TF154-2C	TFP154-2C	24	700	690	2PDT
TF154-4C	TFP154-4C	12	185	690	4PDT
TF154-4C	TFP154-4C	24	700	690	4PDT
TF154-6C	TFP154-4C	12	90	1400	6PDT
TF154-6C	TFP154-6C	24	430	1400	6PDT
TF154-8C	TFP154-8C	12	75	1900	8PDT
TF154-8C	TFP154-8C	24	430	1900	8PDT
Sensitive Single Point 2 Amp Contacts					
TS154-2C	TSP154-2C	12	800	100	2PDT
TS154-2C	TSP154-2C	24	3200	100	2PDT
TS154-4C	TSP154-4C	12	430	175	4PDT
TS154-4C	TSP154-4C	24	1800	175	4PDT
TS154-6C	TSP154-6C	12	350	250	6PDT
TS154-6C	TSP154-6C	24	1275	250	6PDT
TS154-8C	TSP154-8C	12	190	400	8PDT
TS154-8C	TSP154-8C	24	800	400	8PDT
Ultra Senstitive Single Point 1 Amp Contacts					
TSS154-2C	TSSP154-2C	24	7500	40	2PDT
TSS154-4C	TSSP154-4C	24	3700	80	4PDT
Standard Bifurcated 2 Amp Contacts					
T163-2C	TP163-2C	12	185	690	2PDT
T163-2C	TP163-2C	24	700	690	2PDT
T163-4C	TP163-4C	12	185	690	4PDT
T163-4C	TP163-4C	24	700	690	4DPT
T163-6C	TP163-6C	12	90	1400	6PDT
T163-6C	TP163-6C	24	430	1400	6PDT
T163-8C	TP163-8C	12	75	1900	8PDT
T163-8C	TP163-8C	24	430	1900	8PDT
Sensitive Bifurcated 2 Amp Contacts					
TS163-2C	TSP163-2C	12	800	100	2PDT
TS163-2C	TSP163-2C	24	3200	100	2PDT
TS163-4C	TSP163-4C	12	430	175	4PDT
TS163-4C	TSP163-4C	24	1800	175	4DPT
TS163-6C	TSP163-6C	12	350	250	6PDT
TS163-6C	TSP163-6C	24	1275	250	6PDT
TS163-8C	TSP163-8C	12	190	400	8PDT
TS163-8C	TSP163-8C	24	800	400	8PDT
Ultra-Sensitive Bifurcated 2 Amp Contacts					
TSS163-2C	TSSP163-2C	24	7500	40	2PDT
TSS163-4C	TSSP163-4C	24	3700	80	4PDT

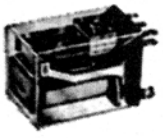
CURRENT ADJUSTED DC RELAYS

Mfr. No.					
Solder Plug-In	PC Mount	Input mADC	Coil Resis (Ohms)	Power (mW)	Contacts
Sensitive Single Point 2 Amp contacts					
TS154-2C	TSP154-2C	5.8	2500	85	2PDT
TS154-2C	TSP154-2C	4.1	5000	85	2PDT
TS154-4C	TSP154-4C	8.4	2500	175	4PDT
TS154-4C	TSP154-4C	6.2	5000	175	4PDT
TS154-6C	TSP154-6C	10.0	2500	250	4PDT
TS154-6C	TSP154-6C	7.1	5000	250	6PDT
TS154-8C	TSP154-8C	13.0	2500	400	8PDT
TS154-8C	TSP154-8C	9.0	5000	400	8PDT

VOLTAGE ADJUSTED AC RELAYS

Mfr. No.					
Solder Plug-In	PC Mount	Input VAC	Coil Resis (Ohms)	Power (VA)	Contacts
Standard Single Point 2 Amp Contacts					
T154-2C	TP154-2C	115	6000	1.3	2PDT
T154-4C	TP154-4C	115	6000	1.3	4PDT
Standard Single Point 5 Amp Contacts					
TF154-2C	TFP154-2C	115	6000	1.3	2PDT
TF154-4C	TFP154-4C	115	6000	1.3	4PDT
Standard Bifurcated 2 Amp Contacts					
T163-2C	.....	115	6000	1.3	2PDT
T163-4C	.....	115	6000	1.3	4PDT

CRADLE® SERIES MAGNETIC LATCH COIL DC RELAYS



T351 and T362 Cradle Series bi-stable and magnetic latch industrial relays. Single or dual coil construction. Versatile mounting means including solder, PC board and socket options. Contact selection to meet load switching requirements input voltage from 6 VDC to 110 VDC. UL Recognized, File E20604. CSA Certified, File LR34171. **Weight:** 1.5 Oz. to 4.0 Oz.

SINGLE COIL

Mfr. No.					
Solder Plug-In	PC Mount	Input (VDC)	Coil Resis (Ohms)	Power (mW)	Contacts
Single Point 2 Amp Contacts					
T351-2C	TP351-2C	24	630	300	2PDT
T351-4C	T351-4C	24	630	300	4PDT
Bifurcated 2 Amp Contacts					
T362-2C	TP362-2C	24	630	300	2PDT
T362-4C	TP362-4C	24	630	300	4PDT

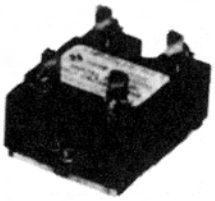
Mfr. No.					
Solder Plug-In	PC Mount	Input (VDC)	Coil Resis (Ohms)	Power (mW)	Contacts
Single Point 5 Amp Contacts					
TF351-2C	TFP351-2C	24	630	300	2PDT
TF351-4C	TFP351-4C	24	630	300	4PDT

DUAL COIL

Mfr. No.					
Solder Plug-In	PC Mount	Input (VDC)	Coil Resis (Ohms)	Power (mW)	Contacts
Single Point 2 Amp Contacts					
T351-2C	TP351-2C	2/24	485/485	600	2PDT
T351-4C	TP351-4C	2/24	485/485	600	4PDT
Bifurcated 2 Amp Contacts					
T362-2C	TP362-2C	2/24	485/485/600	2PDT	
T362-4C	TP362-4C	2/24	485/485	600	4PDT
Single Point 5 Amp Contacts					
TF351-2C	TFP351-2C	2/24	485/485	600	2PDT
TF351-4C	TFP351-4C	2/24	485/485	600	4PDT

CRADLE® SERIES RELAYS AND TIMERS

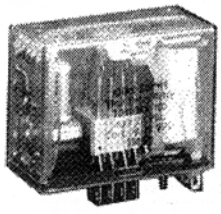
E3 SERIES
OPTO-ISOLATED SOLID STATE POWER RELAYS



Designed for true zero voltage Turn-On. Turn-Off occurs at zero-current crossover. Units are guaranteed to withstand in-rush loads of 1000% of rated current. Light-emitting diodes and photo detectors provide circuit isolation of 2500 VAC. UL Recognized, File E57092. CSA Certified, File LR34171.

Mfr. No.		Input Voltage Range	Voltage Type
Form A Contacts	Form B Contacts		
10 Amp Load Current			
E3-10D1A	E3-10D1B	3-32	DC
E3-10A0A	E3-10A0B	20-28	AC
E3-10A4A	E3-10A4B	100-135	AC
25 Amp Load Current			
E3-25D1A	E3-25D1B	3-32	DC
E3-25A0A	E3-25A0B	20-28	AC
E3-25A4A	E3-25A4B	100-135	AC
40 Amp Load Current			
E3-40D1A	E3-40D1B	3-32	DC
E3-40A0A	E3-40A0B	20-28	AC
E3-40A4A	E3-40A4B	100-135	AC

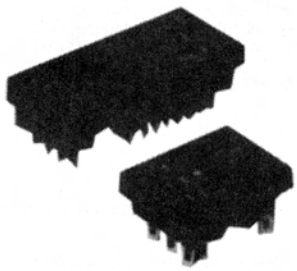
TD10 SERIES
SOLID STATE TIMERS



The TD10 Series solid state timers utilize the service-proved T154 Cradle® relay with a solid state timing circuit to provide timing from 0.1 sec. to 100 sec. with ±2% repeat accuracy. (Up to 300 sec. on special order.) Available as "interval" or "delay-on-operate" models with optional operating and mounting features.

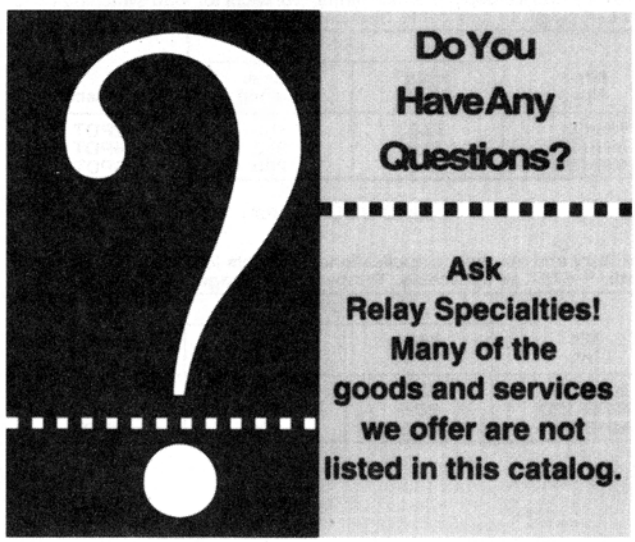
Mfr. No.	Timing Range (Sec.)	Input Voltage	Type Voltage
Delay-On-Operate			
TD10DA-2C-12DNB	0.1 to 10	12	DC
TD10DA-2C-24DNB	0.1 to 10	24	DC
TD10DA-2C-115ANB	0.1 to 10	115	AC
TD10DA-2C-12DND	1.0 to 100	12	DC
TD10DA-2C-24DND	1.0 to 100	24	DC
TD10DA-2C-115AND	1.0 to 100	115	AC
Interval			
TD10NA-2C-12DNB	0.1 to 10	12	DC
TD10NA-2C-24DNB	0.1 to 10	24	DC
TD10NA-2C-115ANB	0.1 to 10	115	AC
TD10NA-2C-12DND	1.0 to 100	12	DC
TD10NA-2C-24DND	1.0 to 100	24	DC
TD10NA-2C-115AND	1.0 to 100	115	AC

T SERIES SOCKETS



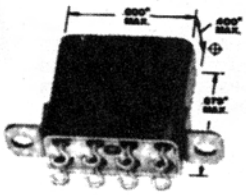
Contacts are silver-plated beryllium copper. Body molded glass filled flame retardant polyester (PBT). Meets UL94V-0 Flame Test and is fungus resistant.

Mfr. No.	Description
Without Hold Down Spring	
T-43111	4-Pole, PC, In-Line
T-45111	4-Pole, PC, 0.1″ Grid
T-61111	6-Pole, Solder
T-63111	6-Pole, PC, In-Line
T-65111	6-Pole, In-Line
T-81111	8-Pole, Solder
With Hold Down Spring	
T-21112	2-Pole, Solder
T-25112	2-Pole, PC, 0.1″ Grid
T-43112	4-Pole, PC, In-Line
T-45112	4-Pole, PC, 0.1″ Grid
T-61112	6-Pole, Solder
T-63112	6-Pole, PC, In-Line
T-65112	6-Pole, In-Line
T-81112	8-Pole, Solder
Hold Down Spring	
T-00102	2-Pole
T-00104	4-Pole
T-00106	6-Pole



MILITARY RELAYS

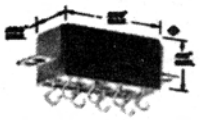
WK SERIES FULL-SIZE CRYSTAL CAN



High-performance military crystal can relays. Bifurcated contacts make relay ideal for dry circuit loads up to 3A. All-welded construction provides for maximum protection against contamination and increases reliability. MIL-R-5757/10 as applicable.

Mfr. No.	Coil		Contacts
	Input (VDC)	Resis. (Ohms)	
WKJ-6D	12.0	150	2PDT
WKJ-6D	26.5	600	2PDT
WKJ-6D	115.0	10000	2PDT
WKY-6D	12.0	150	2PDT
WKY-6D	26.5	600	2PDT
WKY-6D	115.0	10000	2PDT

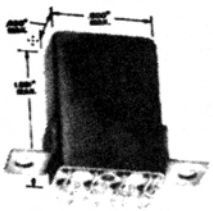
S SERIES HALF-SIZE CRYSTAL CAN



High-performance, military, half-size, crystal can relay. Bifurcated contacts make relay ideal for dry circuit loads up to 2A. All-welded construction provides for maximum protection against contamination and increases reliability. MIL-R-39016/6 as applicable.

Mfr. No.	Coil		Contacts
	Input mADC	Resis. (Ohms)	
S6A1	12.0	140	2PDT
S6A1	26.5	700	2PDT

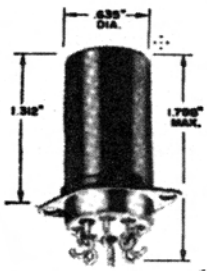
WJ SERIES SENSITIVE/LONG CRYSTAL CAN



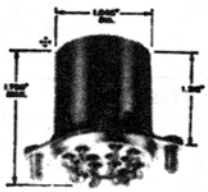
High-performance, current-sensitive military crystal can relays. **1PDT models** have sensisitivity of 22 mW. **DPDT models** have sensitivity of 40 mW. Bifurcated contacts make relay ideal for dry circuit loads up to 3A. All-welded construction provides for maximum protection against contamination and increases reliability. MIL-R-5757/13 as applicable.

Mfr. No.	Coil		Contacts
	Input (VDC)	Resis. (Ohms)	
WJS-3D	5.0	1000	1PDT
WJS-3D	3.2	2500	1PDT
WJS-3D	1.6	10000	1PDT
WJS-6D	6.5	1000	2PDT
WJS-6D	4.0	2500	2PDT
WJS-6D	2.0	10000	2PDT

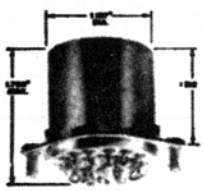
MINIATURE ROUND CAN



MH6 Series



MH12 Series



MH18 Series

MH Series

For Military and aerospace applications. Contacts for load switching up to 5A. MIL-R-5757 as applicable. **Temperature Range:**-55°C to +85°C.

Mfr. No.	Coil		Contacts
	Input (VDC)	Resis. (Ohms)	
MH-6D	26.5	400	2PDT
MH-12D	26.5	300	4PDT
MH-18D	26.5	200	6PDT

MHB VDC Series

For Military and aerospace applications. Contacts for load switching up to 5A. MIL-R-5757 as applicable. **Temperature Range:**-65°C to +125°C.

Mfr. No.	Coil		Contacts
	Input (VDC)	Resis. (Ohms)	
MHB-6D	26.5	325	2PDT
MHB-12D	26.5	250	4PDT
MHB-18D	26.5	200	6PDT

MHJ VDC Series

For Military and aerospace applications. Contacts for load switching up to 5A. MIL-R-5757 as applicable. **Temperature Range:**-65°C to +125°C. **Vibration Capabilities:** 2 kHz to 20 GHz.

Mfr. No.	Coil		Contacts
	Input (VDC)	Resis. (Ohms)	
MHJ-12D	26.5	250	4PDT
MHJ-18D	26.5	200	6PDT

MHB VAC Series

For Military and aerospace applications. Contacts for load switching up to 5A. MIL-R-5757 as applicable. **Temperature Range:**-65°C to +125°C. Split coil construction with diodes for AC operation and minimized EMI.

Mfr. No.	Coil		Contacts
	Input (VAC)	Resis. (Ohms)	
MHB-6A	115	4215/4215	2PDT

MHJ VAC Series

For Military and aerospace applications. Contacts for load switching up to 5A. MIL-R-5757 as applicable. **Temperature Range:**-65°C to +125°C. **Vibration Capabilities:** 2 kHz to 20 GHz. Split coil construction with diodes for AC operation and minimized EMI.

Mfr. No.	Coil		Contacts
	Input (VAC)	Resis. (Ohms)	
MHJ-12A	115	2765/2765	4PDT
MHJ-18A	115	2635/2635	6PDT

MHY Series

Miniature 10A relay for military and aerospace applications. Contacts for load switching up to 10A. MIL-R-5757 as applicable. **Temperature Range:** -65°C to +125°C.

Mfr. No.	Coil		Contacts
	Input (VDC)	Resis. (Ohms)	
MHY-12D	26.5	200	4PDT

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