

G-R-S

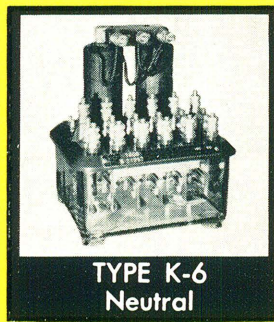
D-C. RELAYS FOR EVERY APPLICATION



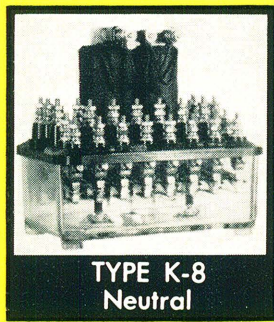
TYPE K-2
Neutral



TYPE K-4
Neutral



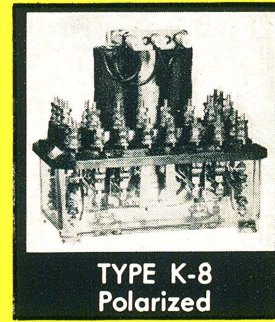
TYPE K-6
Neutral



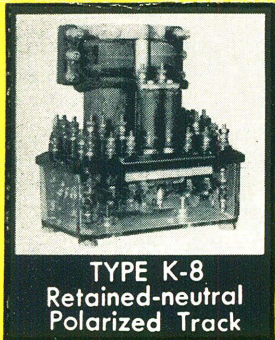
TYPE K-8
Neutral



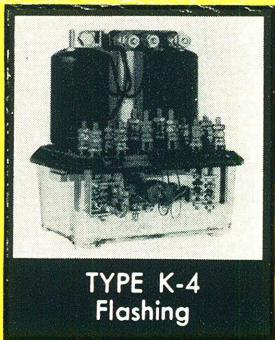
TYPE K-6
Polarized



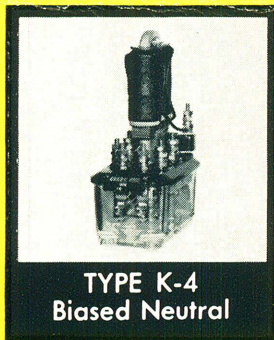
TYPE K-8
Polarized



TYPE K-8
Retained-neutral
Polarized Track



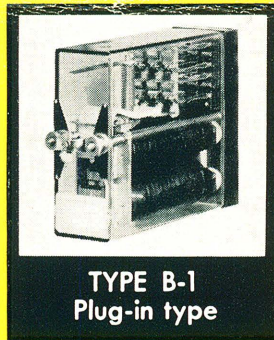
TYPE K-4
Flashing



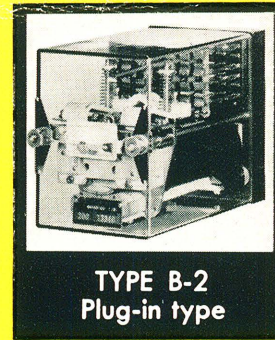
TYPE K-4
Biased Neutral



Timing
TYPE T CLASS G
Thermal



TYPE B-1
Plug-in type



TYPE B-2
Plug-in type

G-R-S TYPE "K" RELAYS

G-R-S TYPE "B" RELAYS

	TYPE	CONTACTS	SIZE (INCHES) HIGH WIDE DEEP			REFERENCES	USE	CHARACTERISTICS		REFERENCES	SIZE (INCHES) HIGH WIDE DEEP			CONTACTS	TYPE				
NEUTRAL	K-2	2FB	7 ⁹ / ₁₆	3 ⁷ / ₈	6 ¹ / ₄	Plates E2105 & E2106 Bulletin 162	Line or track reg. or heavy duty	Quick release—slow release		Plate E3101 Handbook 18	6 ⁵ / ₁₆	2 ⁷ / ₁₆	8 ⁹ / ₁₆	9F or 9B or 6FB or any comb. thereof.	B-1	NEUTRAL			
	K-4	4FB	8 ⁵ / ₈	7 ³ / ₈	6 ³ / ₈	Plates E2109 & E2110 Bulletin 162	Line or track reg. or heavy duty	Regular release, slow release, slow pick-up. Timing as required.			6 ⁵ / ₁₆	2 ⁷ / ₁₆	8 ⁹ / ₁₆	18F or 18B or 12FB or any comb. thereof.	B-2				
	K-6	6FB or 4FB-2F	9 ¹ / ₈	7 ¹¹ / ₁₆	7 ⁹ / ₁₆	Plates E2113 & E2114 Bulletin 162					6 ⁵ / ₁₆	4 ¹⁵ / ₁₆	8 ⁹ / ₁₆		B-1				
	K-8	8FB or 4FB-4F	9 ¹ / ₈	10 ¹ / ₈	6 ⁵ / ₈	Plates E2113 & E2114 Bulletin 162					6 ⁵ / ₁₆	4 ¹⁵ / ₁₆	8 ⁹ / ₁₆		B-2				
PRIMARY	K-2	2FB	7 ⁹ / ₁₆	3 ⁷ / ₈	6 ¹ / ₄	Plates E2113 & E2114 Bulletin 162	Primary track	Quick release	Primary- secondary combination	Plate E3101 Handbook 18	6 ⁵ / ₁₆	2 ⁷ / ₁₆	8 ⁹ / ₁₆	4F and 2B	B-1	PRIMARY			
SECONDARY	K-4	3FB 1 Make-before-break	8 ⁵ / ₈	7 ³ / ₈	6 ³ / ₈	Plate E1901	Secondary line	Slow pick-up		Plate E3101 Handbook 18	6 ⁵ / ₁₆	2 ⁷ / ₁₆	8 ⁹ / ₁₆	6F & 1 FB or 6B & 1FB or 5FB or any comb. with 1MB contact.	B-1	SECONDARY			
	K-6	5FB 1 Make-before-break	9 ¹ / ₈	7 ¹¹ / ₁₆	7 ⁹ / ₁₆	Plates E2105 & E2106				Plate E3151 Handbook 18	6 ⁵ / ₁₆	4 ¹⁵ / ₁₆	8 ⁹ / ₁₆	15F & 1FB or 15B & 1FB or 11FB or any comb. with 1MB contact.	B-2				
	K-8	7FB 1 Make-before-break	9 ¹ / ₈	10 ¹ / ₈	6 ⁵ / ₈	Plates E2117 & E2119 Bulletin 162				Plate E3151 Handbook 18	6 ⁵ / ₁₆	4 ¹⁵ / ₁₆	8 ⁹ / ₁₆	B-2					
LIGHT-OUT	K-2	2FB	7 ⁹ / ₁₆	3 ⁷ / ₈	6 ¹ / ₄	Plates E2107 & E2108 Bulletin 162-D56.7801	Light-out	Regular release	Regular release, slow release, partial slow release. Relatively quick pick-up.	Plate E3101 Handbook 18	6 ⁵ / ₁₆	2 ⁷ / ₁₆	8 ⁹ / ₁₆	9F or 9B or 6FB or any comb. thereof	B-1	LIGHT-OUT			
APPROACH LIGHTING	K-2	2FB	7 ⁹ / ₁₆	3 ⁷ / ₈	6 ¹ / ₄	Plates E2105 & E2106 Bulletin 162	Series line or track	Plate E3101 Handbook 18		6 ⁵ / ₁₆	2 ⁷ / ₁₆	8 ⁹ / ₁₆	9 F or 9B or 6FB or any comb. thereof.	B-1	APPROACH LIGHTING				
POWER TRANSFER	K-2	2FB	7 ⁹ / ₁₆	3 ⁷ / ₈	6 ¹ / ₄	Plates E2107 & E2108 Bulletin 162	Line	Quick release		Plate E3101 Handbook 18	6 ⁵ / ₁₆	2 ⁷ / ₁₆	8 ⁹ / ₁₆	2FB	B-1	POWER TRANSFER			
	K-4	4FB	8 ⁵ / ₈	7 ³ / ₈	6 ³ / ₈	Dwg. #53000-137								4FB					
	K-6	6FB	9 ¹ / ₈	7 ¹¹ / ₁₆	7 ⁹ / ₁₆	Dwg. #53000-144								6FB					
OVERLOAD	K-2	Extra heavy duty contacts as required	7 ⁹ / ₁₆	3 ⁷ / ₈	6 ¹ / ₄	Plates E2107 & E2108	Overload	Externally adjusted for operating in series with switch machines.		Plate E3101 Handbook 18	6 ⁵ / ₁₆	2 ⁷ / ₁₆	8 ⁹ / ₁₆	Extra heavy duty. Contacts as required.	B-1	OVERLOAD			
FLASHING	K-4	4 sets of lamp contacts	8 ⁵ / ₈	7 ³ / ₈	6 ³ / ₈	Plates E2304, E2306 & E2309—Bulletin 162	Local	30 to 45 flashes per minute for each lamp.											
INTER- LOCKING	K-8	4FB each side. Flagman adjustment any or all contacts	8 ¹ / ₈	12 ⁵ / ₈	7 ⁷ / ₁₆	Plate E2303 Bulletin 162	Line or track	Regular release, slow release. Timing as required.											
POLARIZED	K-6	4FB 2NR	9 ¹ / ₈	7 ¹¹ / ₁₆	7 ⁹ / ₁₆	Plates E2201, E2202 & E2203—Bulletin 162	Line or track	Regular release, partial slow release or slow release. Relatively quick pick-up.								Plate E3201 Handbook 18	6 ⁵ / ₁₆	4 ¹⁵ / ₁₆	8 ⁹ / ₁₆
	K-8	4FB 4NR	9 ¹ / ₈	10 ¹ / ₈	6 ⁵ / ₈	Plates E2211 & E2213	Line	Regular release. Each neutral contact in series with a polar contact.											
	K-8	4FNR Neut. & Pol. heels internally connected	9 ¹ / ₈	10 ¹ / ₈	6 ⁵ / ₈	Plates E2205, E2206 & E2207—Bulletin 162													
BIASED- NEUTRAL	K-2	2FB.	8 ⁵ / ₈	7 ³ / ₈	6 ³ / ₈	Dwg. #53000-305 " #53000-306	Line	Operate on one polarity only.			6 ⁵ / ₁₆	2 ⁷ / ₁₆	8 ⁹ / ₁₆	9F or 9B or 6FB or any comb. thereof.	B-1	BIASED- NEUTRAL			
	K-4	4FB	10 ⁷ / ₈	7 ¹¹ / ₁₆	7 ⁹ / ₁₆	Dwg. #53000-307 " #53000-308													
	K-6	6FB	11 ³ / ₈	7 ¹¹ / ₁₆	7 ⁹ / ₁₆	Dwg. #53000-309 " #53000-311													
	K-8	8FB or 4FB-4F	11 ³ / ₈	7 ¹¹ / ₁₆	7 ⁹ / ₁₆														
RETAINED- NEUTRAL POLARIZED	K-6	4FB 2NR	9 ¹ / ₈	7 ¹¹ / ₁₆	7 ⁹ / ₁₆	Plates E2251 & E2253 Bulletin 162-D56.0701	Line	Partial slow pick-up and partial slow release. Slow release feature may be cancelled by external circuits.		Plate E3201 Handbook 18	6 ⁵ / ₁₆	4 ¹⁵ / ₁₆	8 ⁹ / ₁₆	4FB-4NR or 6FB-6NR or 8FB-4NR or 4FB-8NR	B-2	RETAINED- NEUTRAL POLARIZED			
	K-8	4FB 4NR	9 ¹ / ₈	10 ¹ / ₈	6 ⁵ / ₈	Plates E2267 & E2269 Bulletin 162-D56.0701													
	K-8	4FB 4NR	10 ⁹ / ₁₆	10 ¹ / ₈	6 ⁵ / ₈	Plates E2257 & E2259 Bulletin 162-D56.0701													
RETAINED- NEUTRAL NEUTRAL	K-4	2FB	8 ⁵ / ₈	7 ³ / ₈	6 ³ / ₈	Dwg. #53005-50	Line	Hold-over on pole change											
	K-6	4FB	9 ¹ / ₈	7 ¹¹ / ₁₆	7 ⁹ / ₁₆	Dwg. #53005-51													
	K-8	6FB	9 ¹ / ₈	10 ¹ / ₈	6 ⁵ / ₈	Dwg. #53005-52													

TIMING RELAYS-THERMAL & MOTOR OPERATED TYPES

THERMAL	T Class A	1 Normally open	5 ⁵ / ₁₆	3 ¹ / ₂	4 ⁷ / ₈	Plate E2501 Bulletin 162	Line relay from local battery	Non-adjustable. Closing time 4.5 to 21 secs., as required.	Plate E3401 Handbook 18	6 ⁵ / ₁₆	2 ⁷ / ₁₆	8 ⁹ / ₁₆	1 Normally open 1 Normally closed	B-1	THERMAL
	T Class G	1 Normally open 1 Normally closed	5 ³ / ₁₆	2 ¹¹ / ₁₆	3 ¹³ / ₁₆	Plate E2513		Has externally adjustable contact. Total operating time 45 to 180 secs., as req.							
	T Class J					D56.7701 Drawing No. 53610-23		Adjustable. Total operating time 15 to 45 seconds as required.							
MOTOR	KB	1 Normally open 1 Normally closed	8 ⁹ / ₁₆	4 ³ / ₄	9	D56.7721	Line	Adjustable for timing.		6 ⁵ / ₁₆	4 ¹⁵ / ₁₆	8 ⁹ / ₁₆	1 Normally open 1 Normally closed	B-2	MOTOR OPERATED



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G-R-S relays meet or surpass A.A.R. standards.

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