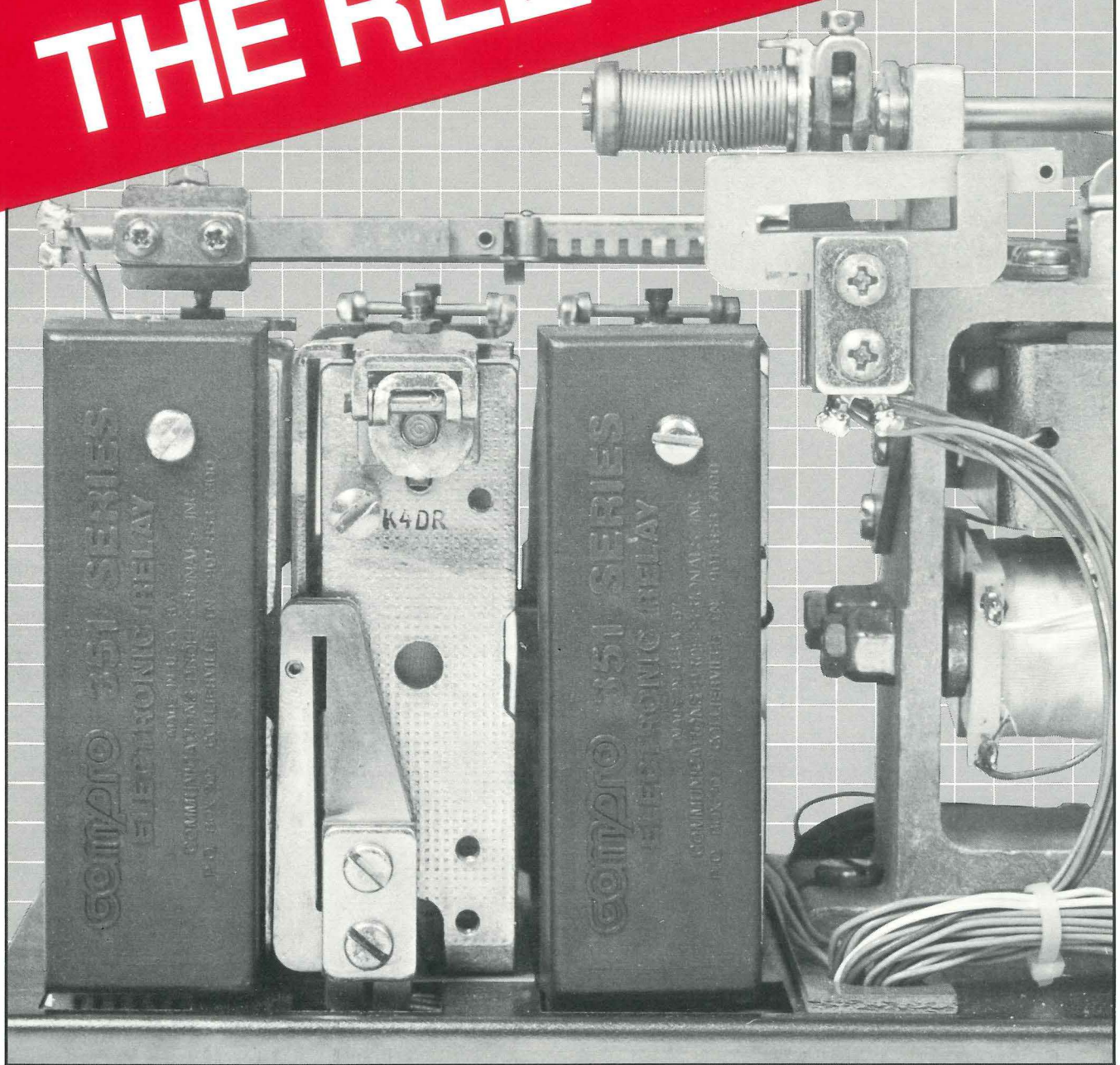


**WINNER OF
THE RELAY RACE**



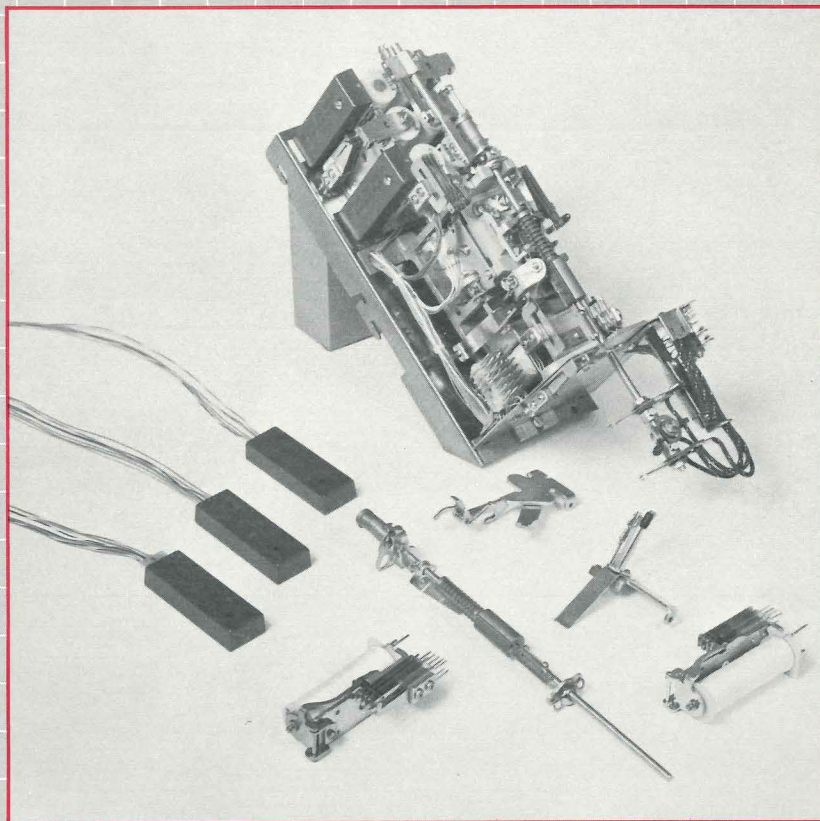
Compro ELECTRONIC RELAYS

Now the reliability and convenience of electronics can add new dependability to SxS switch trains. COM PRO's electronic relays replace pulsing contacts with an easy-to-install module which never needs adjusting.

Factory pre-set pulse timing is not affected by loop and leak resistance providing dependable and maintenance-free operation.

The COM PRO Electronic Relays mount in place of existing relay springs, and are pre-wired for faster, easier installation than relays which have wire-wrap pins. The relays can be installed in less than 10 minutes, yet will last longer than the switch itself.

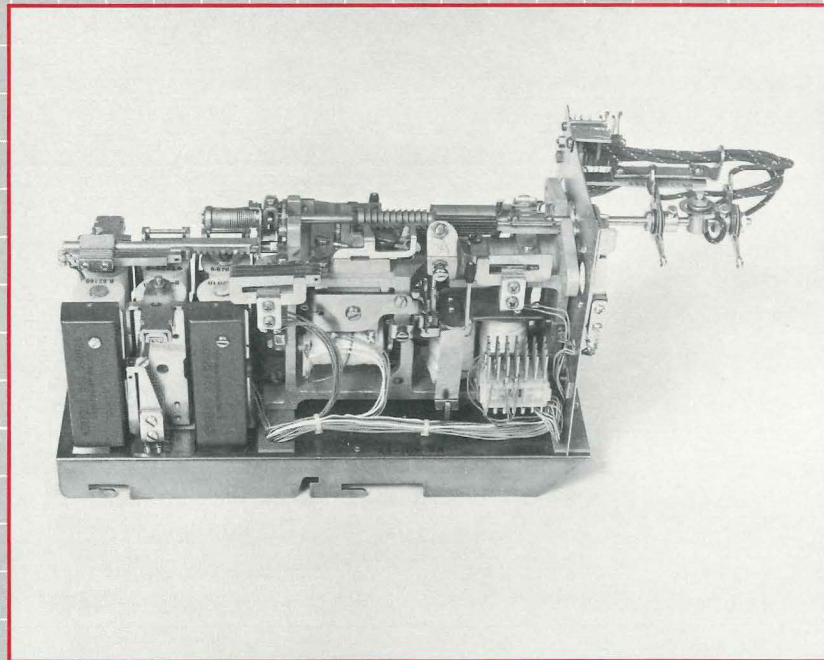
Intensive factory and field testing has produced a relay with a life span far exceeding any with moving parts. COM PRO Relays have been continuously dialed 24 hours a day, seven days a week, producing a usage rate equivalent to 40 to 50 years of typical service without a single failure!



The Solid State Relay That's Ahead Of The Pack

- Balanced to cancel noise and eliminate spurious operation due to induced line transients.
- Immune to spurious incoming signals up to 30 volts AC.
- Can operate at voltages below the point when other relays fail—from a low of 30 volts to a high of 65 volts.
- Case is no larger than standard relay spring pileup. Even dented can covers can easily slip over installed relays.
- Loop and leak characteristics—are better than electromechanical relays, allowing effective operation even with less than ideal line conditions.
- Fastest installation time of all electronic relays. Wire leads rather than wire-wrap pins speed installation, eliminate use of old, deteriorating switch wires or time-consuming wire replacement.

COM PRO Electronic Relays are part of a complete line of SxS switch products ranging from maintenance parts to line additions.



Technical Specifications

Electronic "E" Relay

Operating voltage	-40 to -60 Volts DC
Idle current	Less than 0.7 mA DC
Pulse rate	20 to 60 pps determined by adjustment of the mechanical
Cut thru relay current	35 mA DC regulated
Sleeve wiper current	35 mA DC regulated
Operating temperature	0 to 70 degrees C
External Case	ABS Plastic case, meets UL-94 Vertical Burn test, 94-VE-O Combustion Rating, Oxygen index of 28%.

Electronic "A" Relay, 3 Spring

Operating voltage	-40 to -60 Volts DC
Idle current	11 mA nominal
Loop resistance	2000 ohms max.
Leak resistance	6800 ohms min.
Operate current, 200 ohm coil	17 mA nominal at 50 volts
Release current	14 mA nominal
Operating temperature range	0 to 70 degrees C
Pulse rate	DC to 20 pps
Line unbalance	0.5% + "A" coil unbalance
Pulse ratio distortion	3% max.
Longitudinal imbalance	45 db. min. @200 ohms, 32 db. min @2000 ohms
External Case	ABS Plastic case, meets UL-94 Vertical Burn test, 94-VE-O Combustion Rating, Oxygen index of 28%.

Electronic "A" Relay, 5 Spring

Operating voltage	-40 to -60 Volts DC
Idle current	12 mA nominal
Loop resistance	2000 ohms max.
Leak resistance	6800 ohms min.
Operate current, 200 ohm coil	17 mA nominal at -50v battery
Release current	14 mA nominal
Operating temperature	0 to 70 degrees C
Pulse rate	DC to 20 pps
Line unbalance	"A" coil unbalance $\pm 0.5\%$
Pulse ratio distortion	Less than 3%
Longitudinal imbalance	45 db. min. @200 ohms, 32 db. min @2000 ohms
External Case	ABS Plastic case, meets UL-94 Vertical Burn test, 94-VE-O Combustion Rating, Oxygen index of 28%.



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