

Coto 4000/4200 series reed relays are uniquely designed to provide quality and reliability at a low cost.

Using only high-grade materials, the nylon bobbin and SE-O rated polyester case are engineered for automation. Our quality proven reed switches and NEMA spec'd magnet wire complete this quality product.

Each relay is entirely sealed with epoxy and tested 100% to all parameters. A wide variety of contact types are offered to fit your switching requirements. Standard coil options allow a selection of sensitivities from 83 mA to as little as 4 mA.

4000/4200 relays are available with axial leads or formed on 1" x .100" and 1" x .150" centers. Other special configurations are available on special request.

All relays are available with full magnetic shielding applied internally to maintain a non-shorting exterior design. Highly efficient electrostatic shielding is also available on all models. Most models are recognized by Underwriters' Laboratories and others are now being submitted to UL.

TESTING AND RELIABILITY

Each relay is tested 100% to the specified parameters. High reliability versions are subjected to an extensive series of cycling and dynamic testing.

PACKAGING

Outside case material is a flame-retardant polyester. Reed switches are epoxy-encapsulated into coil form and outside case to provide a strain relief on the reed switch glass-to-metal seal.

Switch leads are .023" diameter tinned Niron. Coil leads are .025 ± diameter tinned copper. The encapsulant is a two-part room cure epoxy where volume resistivity is greater than 1 x 10¹² ohms-cm at 25°C.

ENVIRONMENTAL RATINGS

Storage Temperature:

-50 to +100 degrees C

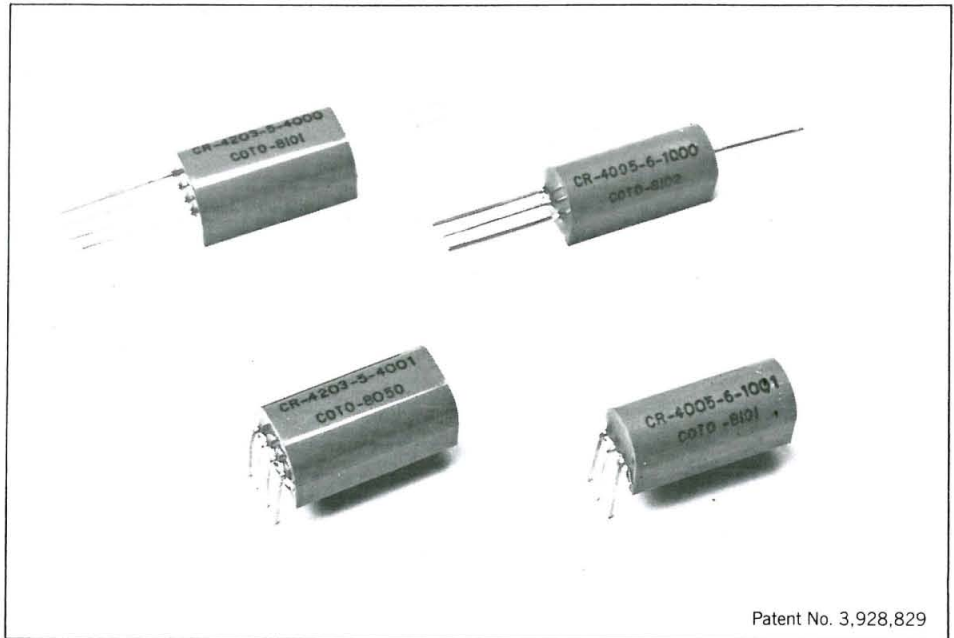
Operating Temperature:

-20 to +70 degrees C

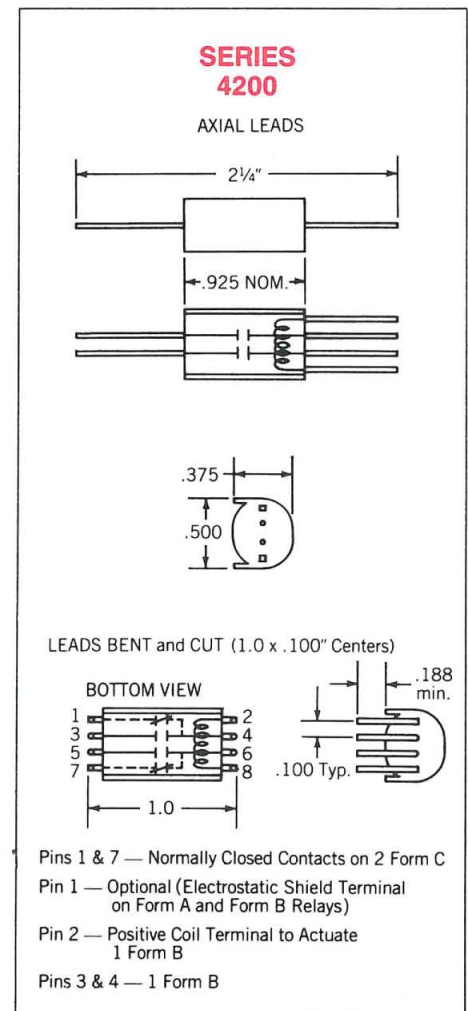
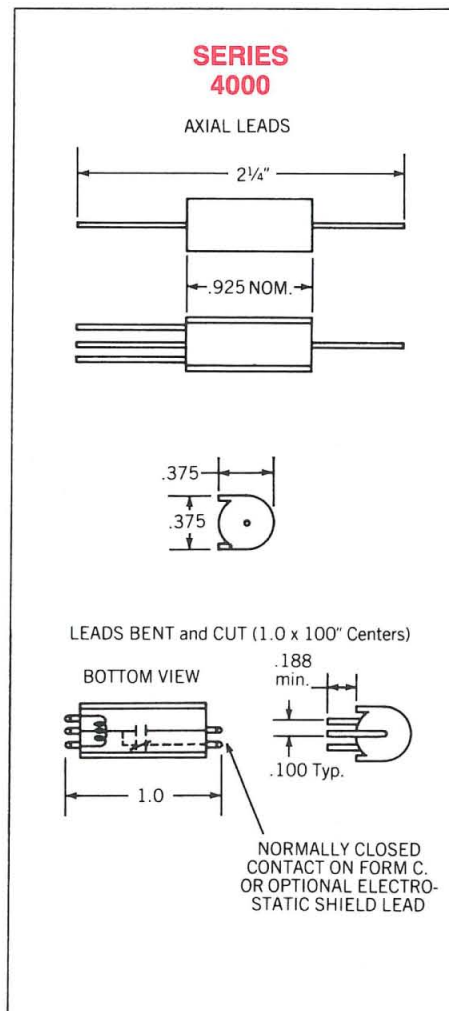
(NOTE: The must-operate and must-release voltages and the coil resistance are specified at 25 degrees C. These values vary by approximately 0.4% per degree C as the ambient temperature varies.)

Vibration: 20 G's to 2,000 Hz.

Shock: 50 G's



Patent No. 3,928,829

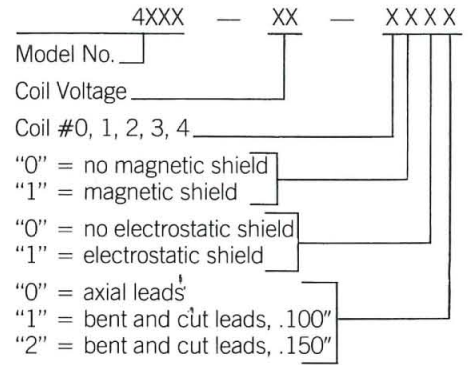


OPERATING PARAMETERS @ 25°C

Parameter	4000				4200			
	5	6	12	24	5	6	12	24
Nominal Volts	5	6	12	24	5	6	12	24
Must Operate Volts	3.7	4.5	9.0	18.0	3.7	4.5	9.0	18.0
Must Release Volts	0.4	0.5	1.0	2.0	0.4	0.5	1.0	2.0
Coil #0 Resistance Ohms	65	105	500	1800	60	100	400	1600
Coil #1	175	300	1000	4000	150	250	1000	4000
Coil #2	105	175	800	2700	100	150	600	2400
Coil #3	300	500	1800	—	250	400	1600	—
Coil #4	500	800	2700	—	400	600	2400	—

ORDERING INFORMATION

To order a COTO relay, assemble a part number from the data below to describe the desired parameters.



SPECIFICATIONS

Relay Contact Type		Model Number	Initial Contact Resistance Ohms Max.	Contact Rating Watts Max.	Switch Volts DC Max.	Switch Amps Max. Resistive	Breakdown Volts DC Min.	Options Restrictions
4000	4200							
1A‡ High Reliability	2A‡ High Reliability	4004 4204	.100	10	200	.5	300	
1A High Power		4005	.150	50	150	1.0	200	No E/S No #3 or #4 Coil
1C Standard	2C Standard	4011	.150	3	150	.250	200	#4 Coil Must Have Mag. Shield
		4211	.150	3	150	250	200	#4 Coil Must Have Mag. Shield, No E/S
1A* Mercury Wet		4020	.050	50	500	2.0	1000	No E/S No #3 or #4 Coil
1A High Voltage Low Cost	2A High Voltage Low Cost	4030 4230	.150	10	300	.5	800	No #4 Coil
1A‡ High Voltage Standard	2A High Voltage Standard	4031 4231	.150	10	500	.5	1200	No #4 Coil
1B Standard		4240	.150	10	200	.5	300	Must Have Mag. Shield, No E/S

*Standard coil only. Mount Hg Wet relay vertically with coil leads down.

‡Recognized under the component program of Underwriters' Laboratory.

Insulation Resistance 10⁹ Ohms min. @ 100VDC, 25°C, 40% Relative Humidity.