



DESIGN QUALITY.
CUSTOM DEVELOPMENT
SERVICES AND 50+ YEARS
OF MANUFACTURING
EXCELLENCE.

OUR OFFER:

Made in the U.S.A., custom components as well as assemblies for commercial, industrial and military applications developed to exceed all customer expectations—even the military's.

OUR ADVANTAGE:

- Extensive, full-service capabilities in our 20,000 sq. ft. facility from prototype to production through manufacturing.
- A cost competitive, legacy-leader with 50+ years of solid, generational leadership.
- The winning combination of an experienced team and hands-on management.
- CAD/CAM services to support the design stage.

OUR SPECIALTIES:

- 100% commitment to continuous improvement of our design, development and manufacturing quality system.
- On-time delivery.
- Sourcing hard to find needs.
- Product expertise with technical schematics.
- Customized, defect-free prototypes.
- Producing products to the precise requirements our customers need—and we demand.

We are family-owned and operated. Ready to stand in as your full-service legacy partner. You can have pride in saying you source your products in the U.S. when you align with Olympic Controls Corp.

T-BAR®

- RELAYS: DUST-TIGHT SEALED, ENVIRONMENTALLY-SEALED + HERMETICALLY-SEALED
- TOGGLES: DUST-TIGHT SEALED + ENVIRONMENTALLY-SEALED
- PUSHBUTTONS: DUST-TIGHT SEALED



OVERVIEW:



CONTACT OPTIONS:

900 SERIES - Low-level dual contact has the reliability of a bifurcated contact with the added feature of orthogonal wiping action.

800 SERIES - Highly-reliable button contacts with its high contact pressure and positive wiping action. It is used in control applications.

REACH OUT to discuss your product line needs today at info@occorp.com.

GENERAL SPECIFICATIONS:

- APPLICATIONS: Naval vessels, jet aircraft, space launches, monitoring circuits and more.

RELAY SPECIFICATIONS:

- ADVANTAGES: Latching relays and magnetically bistable add the advantages of eliminating power waste during a power loss.
- AMPERAGE: 5 Amp Series (800 Series) and 1 Amp (900 Series) contact ratings.
- CIRCUITS: Relays switch from 12 to 52 circuits.
- COIL CONFIGURATIONS: Two coil configurations available. Polarity inversion control (6 Watts) is standard where the relay is driven into the set or reset (latch/unlatch) position by inverting the polarity of the control voltage. Bifilar operation (10 Watts) can be supplied to latch or unlatch using the same polarity DC control voltage.
- MECHANICAL LIFE: Million operations with a typical contact resistance of 20 milliohms.
- POLE CONFIGURATIONS: 12, 24, 36, 48 and 52 pole configurations with Form C (Double Throw, Transfer) switching, 60 poles with Form A switching.
- POWER REQUIREMENTS: 3 to 6.5 Watts (dependent on contact arrangement).
- POWER SOURCE: Relay coils operated from 12, 24, 48 or 110 Volts DC and 115 Volts AC.

SWITCHES SPECIFICATIONS:

- MILLION LIFE OPERATIONS.
- ADVANTAGES: Solves the problem of multi-circuit switching, such as gang switching, circuit selection and matrix switching.
- POLE CONFIGURATIONS: 12 to 144 pole configurations in Form C switching with maintained action.
- PUSHBUTTON SWITCHES: Available in 5 Amp Series only (800 Series).
- RELIABILITY PROMISE: 12 pole switching wafers (both 800/900 Series decks) as used on T-Bar Relays assuring the same high-level of reliability promise experienced throughout the T-Bar product line. Protection against all types of environment.

900/800 SERIES CONTACT



TWO T-BAR SERIES CONTACT OPTIONS:

- 1) THE 900 SERIES CONTACTS** for reliable low level switching. Experience low level dual contact with the reliability of a bifurcated contact plus the added feature of orthogonal wiping action. The unique EDGE-TO-DOME contact guarantees a clean surface which is critical for low level signals. This series is typically used in computer I/O signals: voice and data-grade communications thermocouple and strain gauge outputs, all low level switching, whenever reliability is a premium or whenever slight variations in contact resistance cannot be tolerated (microvolts to 1 Amp max).
- 2) THE 800 SERIES CONTACTS** for reliable general purpose switching with a highly reliable, gold-plated button contact. Manufactured with high contact pressure and positive wiping action that is used in control applications as well as in general purpose switching (relays, valves, lamps, etc.). 5 Amp resistive rating.

SPECIFICATIONS:

- **# OF POLES:** 4, 8, 12, 24, 36, 48 and 60 pole configurations.
- **COIL VOLTAGE:** 6, 12, 24, 28, 48 and 110 Volts DC + 115 Volts AC
- **TYPE OF CONTACTS:** 800 Series for reliable general purpose switching from 1 Amp to 5 Amp control. Or, the 900 Series for reliable low level switching to 1 Amp.
- **CONTACT FORM:** A, B, C, D

ORDER INFORMATION

We are a proven legacy-run product specialist partner ready to fulfill your sourcing requirements. Reach out to discuss how our professional team can be of service to you. Our full-service capabilities include design, development and manufacturing excellence for whatever your company procurement needs may be. Our customization options will put you ahead of the competition. Trust your company to 50+ years of providing quality, made in the U.S. products by our family-owned and operated business. Connect today at info@occorp.com or call **(847) 742-3566**.

STANDARD OPTIONS ORDERING CHART:

STANDARD OPTION:	DESIGNATION:
MOUNTING OPTIONS FOR ENVIRONMENTALLY SEALED RELAYS:	
Top Mounting Flange	-2
Side Mounting Flange	-3
COIL TERMINALS: on 1-6 side of relay	-4
BIFILAR COIL for latching relays. Add "F" to coil voltage.	F
HIGH-INSULATION RESISTANCE 50,000 megohms.	-H
MAGNETICALLY-SHIELDED coil on solenoid operated relays. Add "M" suffix.	M
COIL SUPPRESSION. Add "S" suffix.	S
JACK SCREW hardware on hermetically sealed relays employing a 50-pin connector. Add "S" suffix to.	S
TOP-MOUNTING FLANGE for dust tight relays. Add "T" suffix.	T
HIGH-DIELECTRIC withstanding voltage to 1500 VAC. Add "W" suffix (<i>includes</i> "H" designation above).	H

EDGE-TO-DOME CONTACT

GUARANTEES A CLEAN SURFACE CRITICAL FOR LOW LEVEL SIGNALS.



PART NO.: 900-12C-28
T-BAR SERIES: 900
NO. OF CONTACTS: 12
CONTACT FORM: C
COIL VOLTAGE: 28

PART NO.: 800-12C-28
T-BAR SERIES: 800
NO. OF CONTACTS: 12
CONTACT FORM: C
COIL VOLTAGE: 28

ASK ABOUT OUR:

HYBRID RELAY CUSTOMIZABLE OPTIONS



ORDERING OPTIONS: The T-Bar Relays, Toggles and Pushbuttons product line series are available in our standard stock set-up and in a multitude of customizable options that suit any application and environmental needs. E-mail or call now to learn more. Customization manufacturing is a part of our legacy expertise built over 50+ years of developing quality products.

★ T-BAR PRODUCT LINE CUSTOMIZATION OPTIONS ★

STANDARD	TYPE OF SEAL	RELAY			TOGGLE		PUSHBUTTON
	# OF POLES	DUST-TIGHT	HERMETICALLY-SEALED	ENVIRONMENTALLY-SEALED	DUST-TIGHT	ENVIRONMENTALLY-SEALED	DUST-TIGHT
	COIL VOLTAGE	6-, 12-, 24-, 28-, 48-, 110-VDC and 115-VAC	6-, 12-, 24-, 28-, 48-, 110-VDC and 115-VAC	6-, 12-, 24-, 28-, 48-, 110-VDC and 115-VAC	-----	-----	-----
	CONTACT SERIES	800 or 900	800 or 900	800 or 900	800 or 900	800 or 900	800
	CONTACT FORM	A, B, C or D	A, B, C or D	A, B, C or D	A, B, C or D	A, B, C or D	A, B, C or D
CUSTOMIZATION OPTIONS	MAG LATCH	★	★	★	-----	-----	-----
	LOGIC CONTROL (HYBRID)	★	-----	-----	-----	-----	-----
	BIFILAR COILS	★	★	★	-----	-----	-----
	COIL TERMINAL PLACEMENT	★	★	★	-----	-----	-----
	HIGH INSULATION RESISTANCE	★	★	★	★	★	★
	MAGNETICALLY SHIELDED COIL	★	★	★	-----	-----	-----
	COIL SUPPRESSION	★	★	★	-----	-----	-----
	JACKSCREW	-----	★	-----	-----	-----	-----
	DUST-TIGHT RELAY MOUNTING FLANGE	★	-----	-----	-----	-----	-----
	ENVIRONMENTALLY SEALED RELAY MOUNTING FLANGE	★	-----	★	-----	-----	-----
HIGH DIELECTRIC	★	★	★	★	★	★	

★ = T-BAR CUSTOMIZATION OPTION.

★ ORDERING KEY ★

907-36CG-24F-S



PATENT RECOGNITION:

T-Bar Switches and Relays are manufactured under one or more of the following U.S. patents; 3206990, 3226508, 3689856 and various foreign patents. Specifications subject to change by engineering developments.

