



HERMETIC RELAY

4PDT - 10A

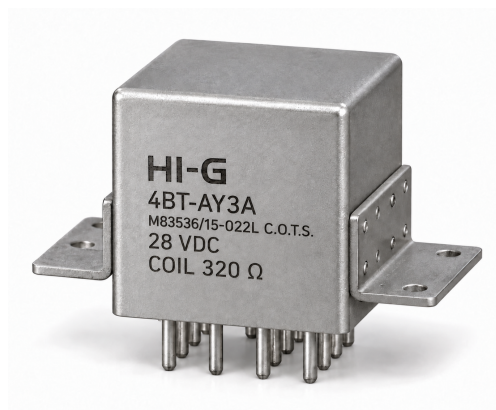
Series
4BT

Product Description

The 4BT series is a hermetic relay with 4 poles double throw, contacts up to 10A.

Features

- Hermetically sealed
- 4PDT Contacts
- Up to 10A switching
- According to M83536 environmental



Environmental Specifications

	MIN	NOM	MAX	Notes
Temperature (°C)	-65		+125	Operating
Shock (g) (Mechanical)		200		6±1 ms
Vibration (g)		50		10 to 3000 Hz - Sinusoidal
Sealing (in Hg)		1.3		Hermetic
Weight (oz)		2.8		Typical [80 grams]

Electrical Specifications

	MIN	NOM	MAX	Notes
Coil				See Coil Table
Contact Rating (A)		10		Resistive load @28Vdc or 115Vac 400Hz
Contact Rating (A)		8		Inductive load @28Vdc or 115Vac 400Hz
Contact Rating (A)		4		Motor load @28Vdc or 115Vac 400Hz
Contact Rating (A)		2		Lamp load @28Vdc or 115Vac 400Hz
Contact Resistance (mΩ)		50		Typical
Operate Time (ms)			15.0	@25°C
Release Time (ms)			10.0	@25°C
EMF Suppressed to (V)			-42	
Dielectric Strength (Vrms)			1000	60 Hz all points @ sea level
Insulation Resistance (MΩ)	1000			@ 500 Vdc – All terminals to case
Life (Operation)	100000			@ Resistive load



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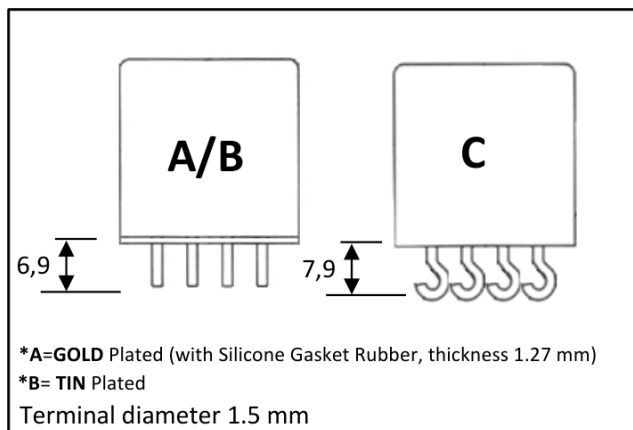
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Series
4BT

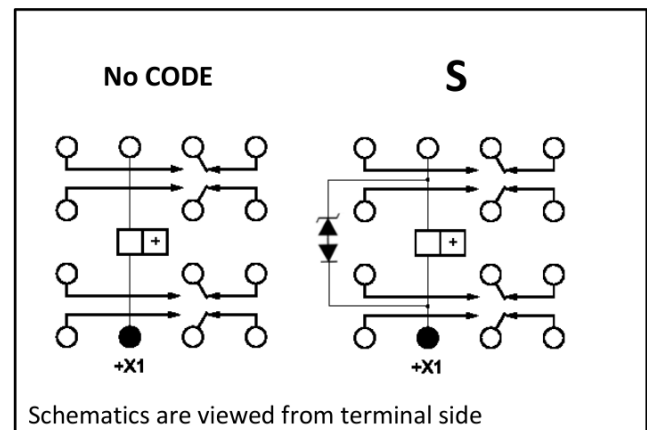
Coil Table

COIL CODE	COIL VOLTAGE (Vdc) Nom / Max	COIL RESISTANCE (Ω) $\pm 10\%$ @ 25°C	PICK-UP (Vdc) max @ 25°C	DROP-OUT (Vdc) min @ 25°C
1	6 / 7.0	18	4.0	0.40
2	12 / 14.0	70	8.0	0.75
3	28 / 32.0	320	19.0	2.3
4	48 / 55.0	800	24.0	2.50

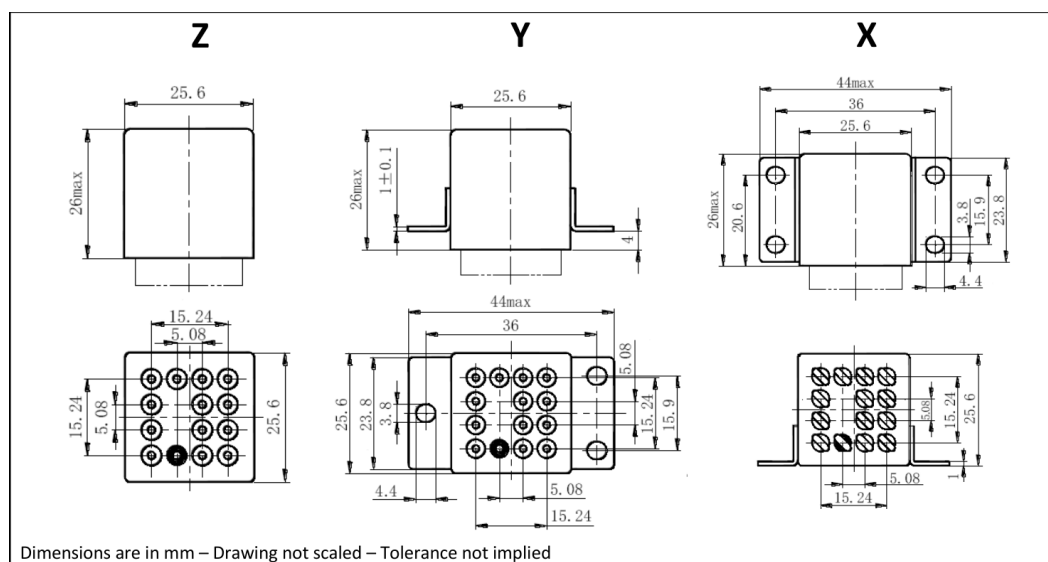
Header Styles



Wiring Diagrams



Mounting Styles



How to Order

4BT –	A	Y	3	No code	A
Series	Header Style	Mounting Style	Coil Code	Wiring	Failure Rate

Failure rate code: A = L; B = M. Wiring: no code or -S. Example: 4BT-AY3A.



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4BT

MIL M83536/15 Configuration Cross Reference

Configuration mapping from MIL-PRF-83536/15A, Table III (12 July 2004), to 4BT ordering codes. This table does not establish MIL qualification or full interchangeability.

MIL reference - L	HI-G code - A	MIL reference - M	HI-G code - B	VDC
M83536/15-001L	4BT-BZ1A	M83536/15-001M	4BT-BZ1B	6
M83536/15-002L	4BT-CZ1A	M83536/15-002M	4BT-CZ1B	6
M83536/15-003L	4BT-AZ1A	M83536/15-003M	4BT-AZ1B	6
M83536/15-004L	4BT-BY1A	M83536/15-004M	4BT-BY1B	6
M83536/15-005L	4BT-CY1A	M83536/15-005M	4BT-CY1B	6
M83536/15-006L	4BT-AY1A	M83536/15-006M	4BT-AY1B	6
M83536/15-007L	4BT-BX1A	M83536/15-007M	4BT-BX1B	6
M83536/15-008L	4BT-CX1A	M83536/15-008M	4BT-CX1B	6
M83536/15-009L	4BT-BZ2A	M83536/15-009M	4BT-BZ2B	12
M83536/15-010L	4BT-CZ2A	M83536/15-010M	4BT-CZ2B	12
M83536/15-011L	4BT-AZ2A	M83536/15-011M	4BT-AZ2B	12
M83536/15-012L	4BT-BY2A	M83536/15-012M	4BT-BY2B	12
M83536/15-013L	4BT-CY2A	M83536/15-013M	4BT-CY2B	12
M83536/15-014L	4BT-AY2A	M83536/15-014M	4BT-AY2B	12
M83536/15-015L	4BT-BX2A	M83536/15-015M	4BT-BX2B	12
M83536/15-016L	4BT-CX2A	M83536/15-016M	4BT-CX2B	12
M83536/15-017L	4BT-BZ3A	M83536/15-017M	4BT-BZ3B	28
M83536/15-018L	4BT-CZ3A	M83536/15-018M	4BT-CZ3B	28
M83536/15-019L	4BT-AZ3A	M83536/15-019M	4BT-AZ3B	28
M83536/15-020L	4BT-BY3A	M83536/15-020M	4BT-BY3B	28
M83536/15-021L	4BT-CY3A	M83536/15-021M	4BT-CY3B	28
M83536/15-022L	4BT-AY3A	M83536/15-022M	4BT-AY3B	28
M83536/15-023L	4BT-BX3A	M83536/15-023M	4BT-BX3B	28
M83536/15-024L	4BT-CX3A	M83536/15-024M	4BT-CX3B	28
M83536/15-025L	4BT-BZ4A	M83536/15-025M	4BT-BZ4B	48
M83536/15-026L	4BT-CZ4A	M83536/15-026M	4BT-CZ4B	48
M83536/15-027L	4BT-AZ4A	M83536/15-027M	4BT-AZ4B	48
M83536/15-028L	4BT-BY4A	M83536/15-028M	4BT-BY4B	48
M83536/15-029L	4BT-CY4A	M83536/15-029M	4BT-CY4B	48
M83536/15-030L	4BT-AY4A	M83536/15-030M	4BT-AY4B	48
M83536/15-031L	4BT-BX4A	M83536/15-031M	4BT-BX4B	48
M83536/15-032L	4BT-CX4A	M83536/15-032M	4BT-CX4B	48

Failure-rate coding: HI-G suffix **A** corresponds to MIL level **L** (3.0% per 10,000 cycles); HI-G suffix **B** corresponds to MIL level **M** (1.0% per 10,000 cycles). The suffix is the final character of the HI-G ordering code.

Marking example: 4BT-AY3A / M83536/15-022L C.O.T.S. C.O.T.S. denotes Commercial Off-The-Shelf. The MIL reference and HI-G suffix mapping do not establish MIL qualification or certified failure-rate performance.

Scope: no suppression suffix S is used in this cross. Electrical, dimensional, environmental and reliability requirements must be verified before substitution.