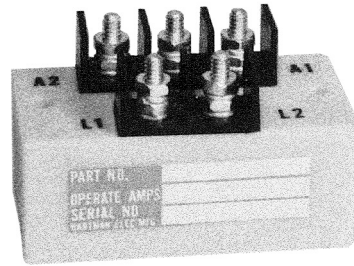


**Q-50 Series Relay, Current Indicator, Rated up to 20 Amps, 28 Vdc**

**See Part Number Listing on Last Page**

**Product Facts**

- SPST NC or SPST NO
- Environmentally sealed
- Meets many requirements of MIL-PRF-6106



**Performance Data**

**Electrical Characteristics**

**Contact Arrangement** — SPST NC, SPST NO or SPDT

**Contact Rating @ 28 Vdc** —

- Q-50AB-2 — 0.2 Amp
- Q-50J, — 0.25 Amp
- Q-50AG — 1.0 Amp
- Q-50AB-1 — 1 Amp switching, and 2 Amps carry
- Q50AC — 2 Amp

**Lamp Load @ 28 Vdc** —

- Q-50AC, Q-50AB-2 — 0.08 Amp
- Q-50J, Q-50AG — 0.20 Amp

**Operating Voltage, Nom.** — 28 Vdc

**Sensing Current Rating** —

20 Amps continuous, max. except for Q-50AB-1 and Q-50AB-2 which are 10

Amps max. and 15 Amps max. for 3 sec. Q50AC 2 Amps continuous 10 Amps max. for 5 seconds

**Pickup Max.** —

- Q-50AC — 0.3 Amp
- Q-50AB-1, Q-50AB-2 — 1.5 Amp
- Q-50J — 3.5 Amps DC
- Q-50AG — 6 Amps DC ± 20%

**Dropout Min.** —

- Q-50AC — 0.1 Amp
- Q-50J — 0.5 Amp
- Q-50AB-1, Q-50AB-2 — less than 1 Amp
- Q-50AG — 2.4 Amp

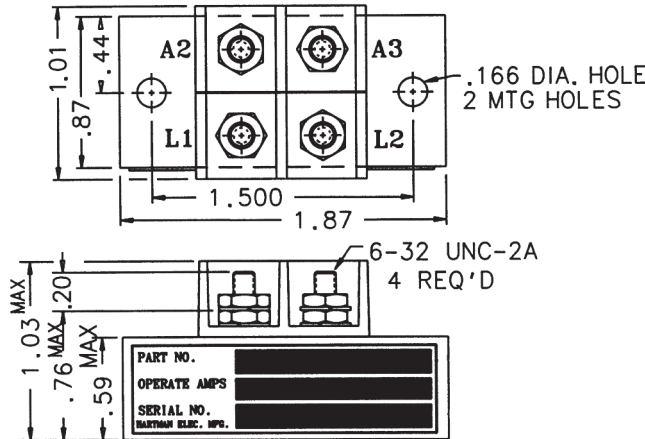
**General Characteristics**

**Temperature Range** — -55°C to +71°C

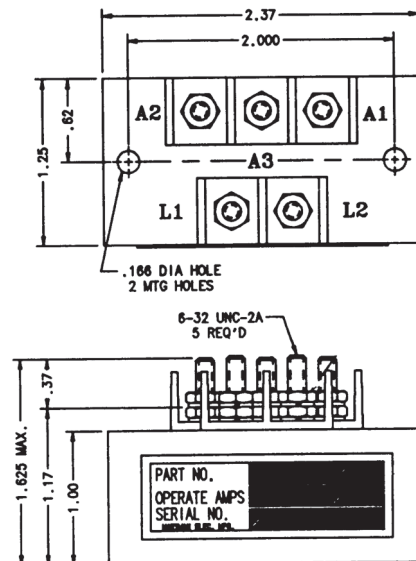
**Altitude, Max.** —

- Q-50J, Q-50AB-1 — 50,000 ft
- Q-50AC, Q-50AG, Q-50AB-2 — 60,000 ft

**Weight, Max.** — 1.25 oz



Mounting Style A

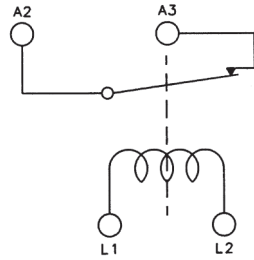


Mounting Style B

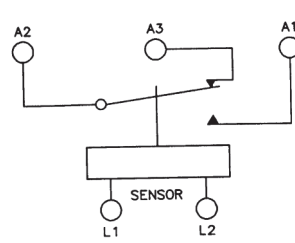
For factory-direct application assistance, phone 419-521-9500 or fax 419-526-2749.

**Q-50 Series Relay, Current Indicator, Rated up to 20 Amps,  
28 Vdc** (Continued)

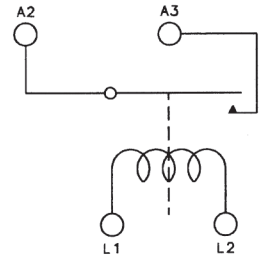
**Circuit Configurations** (Consult factory for other available circuit configurations)



Circuit Configuration 1



Circuit Configuration 2



Circuit Configuration 3

HARTMAN Part Number	Construction Type	Mounting Style	Duty Cycle	Circuit Config.	TE Part Number
Q-50J	Environmentally Sealed	A	Continuous	1	1-1616131-0
Q-50AC	Environmentally Sealed	B	Continuous	2	1616131-4
Q-50AG	Environmentally Sealed	A	Continuous	1	1616540-7
Q-50AB-1	Environmentally Sealed	A	Continuous	1	1616131-2
Q-50AB-2	Environmentally Sealed	A	Continuous	3	1616131-3

For factory-direct application assistance, phone 419-521-9500 or fax 419-526-2749.