

## C4 SERIES OUTPUT MODULES



- Plug into mounting boards for C4 Series modules
- AC Outputs (Black Case)
- DC Outputs (Red Case)
- 4kV Optical isolation
- Replaceable 2 AG Type Fuse
- Industry standard packaging
- Built-in LED Status Indicator

## SPECIFICATIONS (1)

### Input

| Part Number             | C4OAC           | C4OACA          | C4OACR          | C4OACAR         | C4ODC           | C4ODCA          |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Nominal Voltage VDC     | 4-32            | 4-32            | 4-32            | 4-32            | 4-32            | 4-32            |
| Minimum Voltage VDC     | 4.0             | 4.0             | 4.0             | 4.0             | 4.0             | 4.0             |
| Maximum Voltage VDC     | 32              | 32              | 32              | 32              | 32              | 32              |
| Drop-out Voltage        | 1.0             | 1.0             | 1.0             | 1.0             | 1.0             | 1.0             |
| Maximum Current (2) (3) | 22              | 22              | 22              | 22              | 16              | 16              |
| Resistance              | Regulated Input | Regulated Input | Regulated Input | Regulated Input | Regulated Input | Regulated Input |

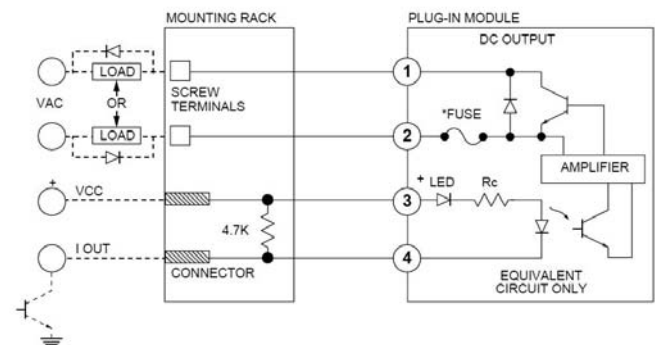
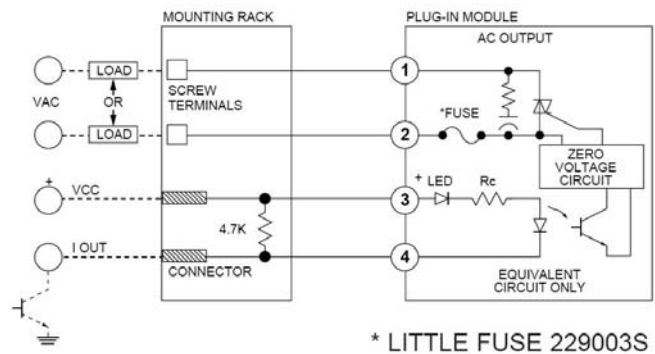
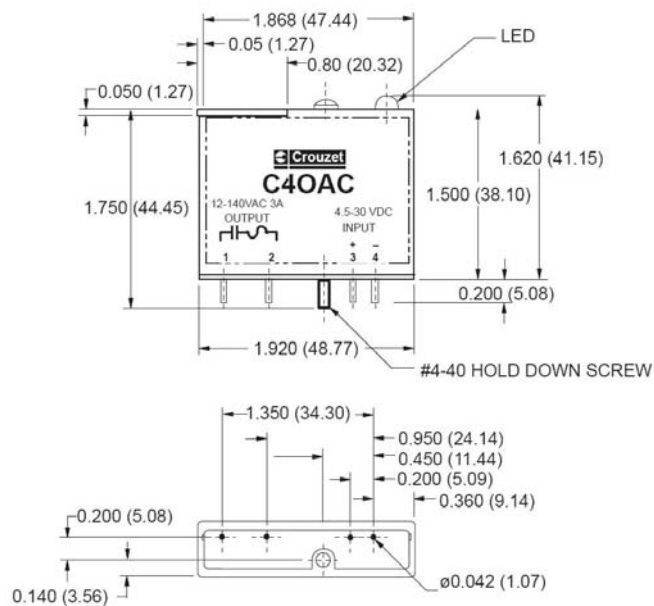
### Output

|                                         |                      |                      |                      |                      |                 |                 |
|-----------------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------|-----------------|
| Nominal Line Voltage                    | 120 VAC              | 240 VAC              | 120 VAC              | 240 VAC              | 5-48 VDC        | 5-150 VDC       |
| Minimum Line Voltage                    | 12 VAC               | 12 VAC               | 12 VAC               | 12 VAC               | 5.0 VDC         | 3 VDC           |
| Maximum Line Voltage                    | 140 VAC              | 280 VAC              | 140 VAC              | 280 VAC              | 60 VDC          | 250 VDC         |
| Max Off-State Voltage (4)               | 600 Vpeak            | 600 Vpeak            | 600 Vpeak            | 600 Vpeak            | 60 VDC          | 250 VDC         |
| Max Off-State Leakage (5)               | 0.1mA <sub>rms</sub> | 0.1mA <sub>rms</sub> | 0.1mA <sub>rms</sub> | 0.1mA <sub>rms</sub> | 10 uA           | 10 uA           |
| Static Off-State dv/dt (6)              | 200 V/usec           | 200 V/usec           | 200 V/usec           | 200 V/usec           | n/a             | n/a             |
| Maximum Rated On-State Current (7)      | 3.0 Arms             | 3.0 Arms             | 3.0 Arms             | 3.0 Arms             | 3.0 A           | 1.0 A           |
| Minimum On-State Current                | 50 mA <sub>rms</sub> | 50 mA <sub>rms</sub> | 50 mA <sub>rms</sub> | 50 mA <sub>rms</sub> | 10 mA           | 10 mA           |
| Max Surge Current (8)                   | 100 Apeak            | 100 Apeak            | 100 Apeak            | 100 Apeak            | 5.0 Apeak       | 5.0 Apeak       |
| On-State Voltage Drop or Resistance (9) | 1.6 V                | 1.6 V                | 1.6 V                | 1.6 V                | 1.6 V           | 1.6 V           |
| HP Rating                               | 1/4                  | 1/4                  | 1/4                  | 1/4                  | n/a             | n/a             |
| Maximum Turn-On Time [msec] (10)        | 8.33                 | 8.33                 | 0.1                  | 0.1                  | 0.05            | 0.05            |
| Maximum Turn-Off Time [msec]            | 8.33                 | 8.33                 | 8.33                 | 8.33                 | 0.05            | 0.05            |
| Input/Output Isolation Voltage (11)     | 4000                 | 4000                 | 4000                 | 4000                 | 4000            | 4000            |
| Input/Output Capacitance                | 4                    | 4                    | 4                    | 4                    | 4               | 4               |
| Operating Temperature Range             | -30 to 80°C          | -30 to 80°C          | -30 to 80°C          | -30 to 80°C          | -30 to 80°C     | -30 to 80°C     |
| Storage Temperature Range               | -40 to 100°C         | -40 to 100°C         | -40 to 100°C         | -40 to 100°C         | -40 to 100°C    | -40 to 100°C    |
| Line Frequency Range                    | 47 to 63 Hz          | 47 to 63 Hz          | 47 to 63 Hz          | 47 to 63 Hz          | DC              | DC              |
| Weight                                  | 1.1 oz. (31.2g)      | 1.1 oz. (31.2g)      | 1.1 oz. (31.2g)      | 1.1 oz. (31.2g)      | 1.1 oz. (31.2g) | 1.1 oz. (31.2g) |

### General Notes:

- (1) Specifications apply to an ambient temperature of -30 to 80 °C unless otherwise noted.
- (2) At 32 VDC typical.
- (3) 13 ma at 5 VDC for AC output modules only.
- (4) Maximum 1 minute duration.
- (5) At maximum rated line voltage, TA=80°C.
- (6) Minimum DV/DT per EIA/NARM RS443, method RS397, DV/DT ratings do not apply to DC output models.
- (7) Without any external heat sink in still air, TA=45°C, at 40°C derate 40 mA/°C to 80°C.
- (8) At 25°C for 1 second maximum duration: 1 AC cycle for AC modules, 1 second for DC modules.
- (9) At peak rated current.
- (10) Before zero voltage, Vin=4V AC modules only based on 60Hz. Vin=15V for DC modules.
- (11) For 1 second maximum duration TA= 25°C.

## MECHANICAL SPECIFICATIONS



## AGENCY APPROVALS



Rev. 121311

|  <b>DANGER / PELIGRO / DANGER /GEFAHR / PERICOLO / PERIGO</b>                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH.</b> <ul style="list-style-type: none"> <li>Disconnect all power before installing or working with this equipment.</li> <li>Verify all connections and replace all covers before turning on power.</li> </ul> <p>Failure to follow these instructions will result in death or serious injury.</p> | <b>RIESGO DE DESCARGA ELECTRICA O EXPLOSION.</b> <ul style="list-style-type: none"> <li>Desconectar todos los suministros de energia a este equipo antes de trabajar con este equipo.</li> <li>Verificar todas las conexiones y colocar todas las tapas antes de energizar el equipo.</li> </ul> <p>El incumplimiento de estas instrucciones puede provocar la muerte o lesiones serias.</p> | <b>RISQUE DE DESCARGE ELECTRIQUE OU EXPLOSION</b> <ul style="list-style-type: none"> <li>Eteindre toutes les sources d'énergie de cet appareil avant de travailler dessus de cet appareil</li> <li>Vérifier tous connections, et remettre tous couverts en place avant de mettre sous</li> </ul> <p>De non-suivi de ces instructions provoquera la mort ou des lésions sérieuses.</p> | <b>GEFAHR EINES ELEKTRISCHE N SCHLAGES ODER EINER EXPLOSION.</b> <ul style="list-style-type: none"> <li>Stellen Sie jeglichen Strom ab, der dieses Gerät versorgt, bevor Sie an dem Gerät Arbeiten durchführen</li> <li>Vor der Inbetriebnahme alle Anschlüsse überprüfen und alle Gehäuseteile montieren.</li> </ul> <p>Unterlassung dieser Anweisungen können zum Tode oder zu schweren Verletzungen führen.</p> | <b>RISCHIO DI SCOSSA ELETTRICA O DELL'ESPLOSIONE.</b> <ul style="list-style-type: none"> <li>Spenga tutta l'alimentazione e che fornisce questa apparecchiatura prima del lavorare a questa apparecchiatura</li> <li>Verificare tutti i collegamenti e sostituire tutte le coperture prima della rotazione sull'alimentazione</li> </ul> <p>L'omissione di seguire queste istruzioni provocherà la morte o di lesioni serie</p> | <b>RISCO DE DESCARGA ELÉTRICA OU EXPLOÇÃO</b> <ul style="list-style-type: none"> <li>Desconectar o equipamento de toda a energia antes de instalar ou trabalhar com este equipamento</li> <li>Verificar todas as conexões e recolocar todas as tampas antes de religar o equipamento</li> </ul> <p>O não cumprimento destas instruções pode levar à morte ou lesões sérias.</p> |

|  <b>WARNING / AVERTISSEMENT / WARNUNG /ADVERTENCIA / AVVERTENZA / AVISO</b>                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE</b> <ul style="list-style-type: none"> <li>The product's side panels may be hot, allow time for product to cool before touching.</li> <li>Follow proper mounting instructions including torque values.</li> <li>Do not allow liquids or foreign objects to enter this product.</li> </ul> <p>Failure to follow this instruction can result in serious injury, or equipment damage.</p>                                                                        | <b>RISQUE DE DOMMAGE MATERIEL ET DE SURCHAUFFE DU BOITIER</b> <ul style="list-style-type: none"> <li>Les panneaux latéraux du produit peuvent être chauds. Laisser le produit refroidir avant de le toucher.</li> <li>Respecter les consignes de montage, et notamment les couples de serrage.</li> <li>Ne pas laisser pénétrer de liquide ni de corps étrangers à l'intérieur du produit.</li> </ul> <p>Le non-respect de cette directive peut entraîner, des lésions corporelles graves ou des dommages matériels.</p> | <b>GEFAHR VON MATERIALSCHÄDEN UND GEHÄUSEERHITZUNG</b> <ul style="list-style-type: none"> <li>Die Seitenwände können heiß sein. Lassen Sie das Produkt abkühlen, bevor Sie es berühren.</li> <li>Beachten Sie die Montageanweisungen,</li> <li>Führen Sie keine Flüssigkeiten oder Fremdkörper in das Produkt ein.</li> </ul> <p>Die Nichtbeachtung dieser Anweisung kann Körperverletzung oder Materialschäden zur Folge haben.</p>                    |
| <b>RIESGO DE DAÑOS MATERIALES Y DE SOBRECALENTAMIENTO DE LA UNIDAD</b> <ul style="list-style-type: none"> <li>Los paneles laterales del producto pueden estar calientes. Esperar que el producto se enfríe antes de tocarlo.</li> <li>Respetar las instrucciones de montaje, y en particular los pares de apretado.</li> <li>No dejar que penetren líquidos o cuerpos extraños en el producto.</li> </ul> <p>Si no se respetan estas precauciones pueden producirse graves lesiones, daños materiales.</p> | <b>RISCHIO DI DANNI MATERIALI E D'INVOLUCRO CALDO</b> <ul style="list-style-type: none"> <li>I pannelli laterali dell'apparecchio possono scottare; lasciar quindi raffreddare il prodotto prima di toccarlo.</li> <li>Seguire le istruzioni di montaggio corrette.</li> <li>Non far entrare liquidi o oggetti estranei in questo apparecchio.</li> </ul> <p>La mancata osservanza di questa precauzione può causare gravi rischi per l'incolumità personale o danni alle apparecchiature.</p>                           | <b>RISCO DE DANO MATERIAL E DE AQUECIMENTO</b> <ul style="list-style-type: none"> <li>Os painéis laterais do produto podem estar quentes; dê tempo ao produto para arrefecer antes de lhe tocar.</li> <li>Siga devidamente as instruções de montagem.</li> <li>Não permita a entrada de líquidos e de objectos estranhos no produto.</li> </ul> <p>A não observância destas precauções pode provocar a morte, ferimentos graves ou danos materiais.</p> |

## ANNEX - ENVIROMENTAL INFORMATION

The environmental information disclosed in this annex including the EIP Pollution logo are in compliance with People's Republic of China Electronic Industry Standard SJ/T11364 – 2006, Marking for Control of Pollution Caused by Electronic Information Products.

| Part Name         | Toxic or hazardous Substance and Elements |              |              |                               |                                |                                       |
|-------------------|-------------------------------------------|--------------|--------------|-------------------------------|--------------------------------|---------------------------------------|
|                   | Lead (Pb)                                 | Mercury (Hg) | Cadmium (Cd) | Hexavalent Chromium (Cr (VI)) | Polybrominated biphenyls (PBB) | Polybrominated diphenyl ethers (PBDE) |
| Semiconductor die | X                                         | O            | O            | O                             | O                              | O                                     |
| Solder            | X                                         | O            | O            | O                             | O                              | O                                     |

此附件所标示的包括电子信息产品污染图标的环境信息  
符合中华人民共和国电子行业标准 **SJ/T11364 - 2006**,  
电子信息产品污染控制标识要求



| 部件名称  | 有毒有害物质或元素 |        |        |               |            |              |
|-------|-----------|--------|--------|---------------|------------|--------------|
|       | 铅 (Pb)    | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr (VI)) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 半导体芯片 | X         | O      | O      | O             | O          | O            |
| 焊接点   | X         | O      | O      | O             | O          | O            |

Solid State Relays

I/O Modules

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