

## DRA-CN Assemblies

### DIN Rail mountable assemblies of Solid State Relays and Sockets

The DRA-CN assemblies provide a convenient and easy way to select and use Crydom CN series Solid State Relays on a standard 35mm DIN rail. For additional information visit [www.crydom.com](http://www.crydom.com).

#### FEATURES

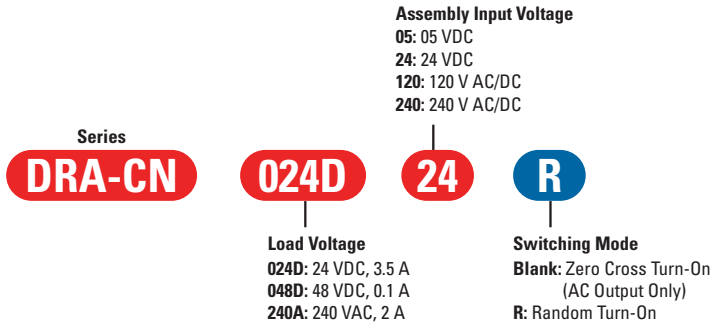
- Factory assembled ready to use assemblies for AC and DC input
- 24VDC @ 3.5A, 48VDC @ 100mA and 240VAC @ 2A Operating Voltage Rating
- 6.2mm wide socket
- LED input status indicator
- Socket clip fits all standard 35mm DIN rails

#### INSTALLATION INSTRUCTIONS

Please read all installation instructions before using the assemblies.

- Mount the assembly on the DIN rail
- Wire the socket to the control side. AWG #24-14 Solid, AWG #24-14 Stranded. (0.14-2.5mm<sup>2</sup>)
- Wire the socket to the load side. AWG #24-14 Solid, AWG #24-14 Stranded. (0.14-2.5mm<sup>2</sup>)
- If multiple units are installed be sure to follow derating curves for assemblies

#### PART NUMBER NOMENCLATURE <sup>A</sup>

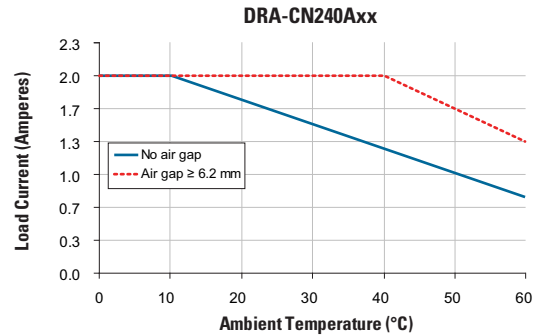
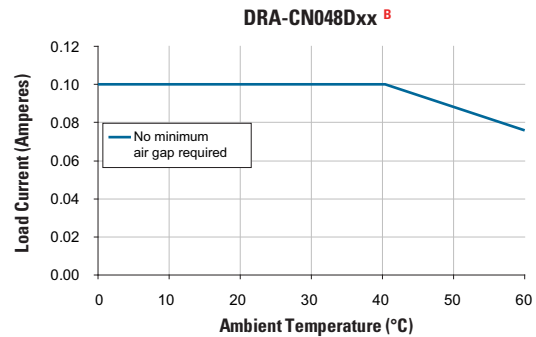
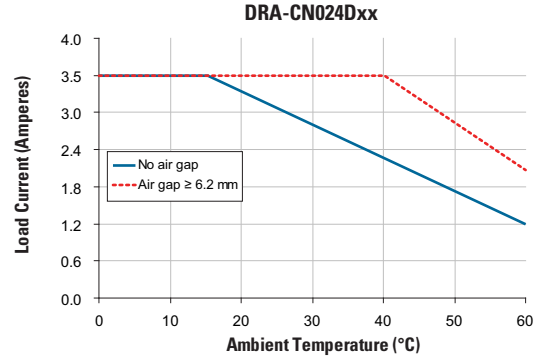


<sup>A</sup> Assembly part number is marked on the opposite side of the socket from the socket's labeling.

#### WIRING DIAGRAM

For DRA-CN assembly wiring diagram see DRSCN wiring diagram shown in installation sheet (reverse side of this sheet).

#### DERATING CURVES



<sup>B</sup> For 100 mA output SSRs, no airgap is required for full output current rating.

Rev: 021910

⚠ WARNING / AVERTISSEMENT / WARNUNG / ADVERTENCIA / AVVERTENZA / 警告		
<b>RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE</b> • The product's side panels may be hot, allow the product to cool before touching. • Follow proper mounting instructions including torque values. • Do not allow liquids or foreign objects to enter this product. <b>Failure to follow these instructions can result in serious injury, or equipment damage.</b>	<b>RISQUE DE DOMMAGE MATERIEL ET DE SURCHAUFFE DU BOITIER</b> • Les panneaux latéraux du produit peuvent être chauds. Laisser le produit refroidir avant de le toucher. • Respecter les consignes de montage, et notamment les couples de serrage. • Ne pas laisser pénétrer de liquide ni de corps étrangers à l'intérieur du produit. <b>Le non-respect de cette directive peut entraîner, des lésions corporelles graves ou des dommages matériels.</b>	<b>GEFAHR VON MATERIALSCHÄDEN UND GEHÄUSEERHITZUNG</b> • Die Seitenwände können heiß sein. Lassen Sie das Produkt abkühlen, bevor Sie es berühren. • Beachten Sie die Montageanweisungen. • Führen Sie keine Flüssigkeiten oder Fremdkörper in das Produkt ein. <b>Die Nichtbeachtung dieser Anweisung kann Körperverletzung oder Materialschäden zur Folge haben.</b>
<b>RIESGO DE DAÑOS MATERIALES Y DE SOBRECALENTAMIENTO DE LA UNIDAD</b> • Los paneles laterales del producto pueden estar calientes. Esperar que el producto se enfríe antes de tocarlo. • Respetar las instrucciones de montaje, y en particular los pares de apretado. • No dejar que penetren líquidos o cuerpos extraños en el producto. <b>Si no se respetan estas precauciones pueden producirse graves lesiones, daños materiales.</b>	<b>RISCHIO DI DANNI MATERIALI E D'INVOLUCRO CALDO</b> • I pannelli laterali dell'apparecchio possono scottare; lasciar quindi raffreddare il prodotto prima di toccarlo. • Seguire le istruzioni di montaggio corrette. • Non far entrare liquidi o oggetti estranei in questo apparecchio. <b>La mancata osservanza di questa precauzione può causare gravi rischi per l'incolumità personale o danni alle apparecchiature.</b>	<b>材料损坏和高温外壳的危险性</b> • 产品的一侧面板可能很热，在其冷却前请不要触碰。 • 遵照正确的安装说明，包括扭矩值。 • 请勿让液体及其他异物进入本产品。 如不能正确执行这些操作说明，极有可能造成严重人体伤害或者设备的损坏。

## DRSCN Series DIN rail mountable sockets

The DRSCN sockets provide a convenient and easy way to install Crydom CN series Solid State Relays on a standard 35mm DIN rail. For additional information visit [www.crydom.com](http://www.crydom.com).

### FEATURES

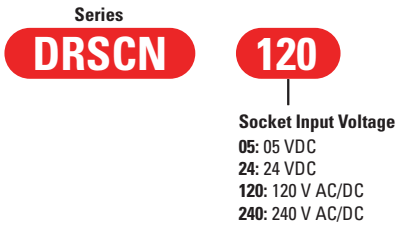
- Sockets are fully compatible with CN series SSRs
- 6.2mm wide socket
- LED input status indicator
- Socket clip fits all standard 35mm DIN rails

### INSTALLATION INSTRUCTIONS

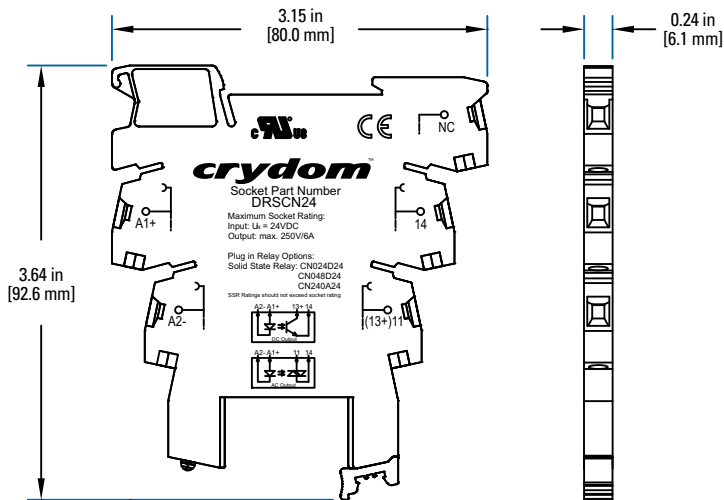
Please read all installation instructions before using the sockets and relays.

- Match CN series SSR to appropriate DRSCN socket part number to create an Assembly
- Insert the CN SSR on the socket
- Mount the socket on the DIN rail
- Wire the socket to the control side. AWG #24-14 Solid, AWG #24-14 Stranded. (0.14-2.5mm<sup>2</sup>)
- Wire the socket to the load side. AWG #24-14 Solid, AWG #24-14 Stranded. (0.14-2.5mm<sup>2</sup>)
- If multiple units are installed be sure to follow derating curves for assemblies

### PART NUMBER NOMENCLATURE



### MECHANICAL DIMENSIONS



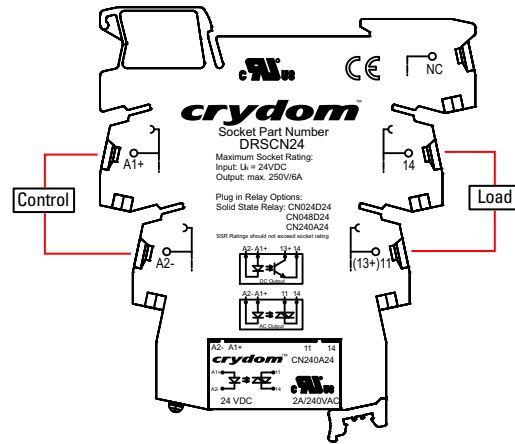
### RELAY/SOCKET COMPATIBILITY <sup>A B</sup>

SSR PN	DR Socket PN
CN024D05 CN048D05 CN240A05	DRSCN05
CN024D24 CN048D24 CN240A24	DRSCN24
CN024D60 CN048D60 CN240A60	DRSCN120
CN024D60 CN048D60 CN240A60	DRSCN240

**A** Installing a CN series solid state relay in a socket that does not have matching input/output specifications may result in damage to either the relay, socket, or both, and/or in non-operation.

**B** Maximum output rating for DRSCN Series sockets is 250V / 6 Amps regardless of chosen SSR.

### WIRING DIAGRAM <sup>C, D</sup>



**C** For sockets intended for AC input control voltage, the AC line can be wired to either DRS socket terminal A1+ or terminal A2-. Proper polarity must be observed for DC input control voltage sockets being terminal A1+ positive with respect to terminal A2-.

**D** For AC loads, the AC line can be wired to either DRS socket terminal 11 or terminal 14. The AC load may also be wired on either the line or neutral side of the SSR. For DC loads, the proper polarity must be observed for the power supply, load and DRS socket with terminal 13 being positive with respect to terminal 14.

Rev: 021910

### ⚠ DANGER / DANGER / GEFARH / PELIGRO / PERICOLO / 危險

<p><b>HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH</b></p> <ul style="list-style-type: none"> <li>• Turn off power supply before working on this equipment.</li> </ul> <p>Failure to follow these instructions will result in death or serious injury.</p>	<p><b>RISQUE D'ELECTROCUTION, D'EXPLOSION OU D'ARC ELECTRIQUE</b></p> <ul style="list-style-type: none"> <li>• Coupez l'alimentation avant de travailler sur cet appareil.</li> </ul> <p>Le non-respect de ces instructions provoquera la mort ou des blessures graves.</p>	<p><b>STROMSCHLAG-, EXPLOSIONS- ODER LICHTBOGENGEFAHR</b></p> <ul style="list-style-type: none"> <li>• Vor dem Arbeiten an dem Gerät dessen Stromversorgung abschalten.</li> </ul> <p>Die Nichtbeachtung dieser Anweisungen führt zu Tod oder schwerer Körperverletzung.</p>
<p><b>RIESGO DE ELECTROCUCIÓN, EXPLOSIÓN O ARCO ELÉCTRICO</b></p> <p>Desconecte toda alimentación antes de realizar el servicio.</p> <p>Si no se siguen estas instrucciones provocará lesiones graves o incluso la muerte.</p>	<p><b>RISCHIO DI SCOSSA ELETTRICA, DI ESPLOSIONE O DI OFTALMIA DA FLASH</b></p> <ul style="list-style-type: none"> <li>• Scollegare l'apparecchio dalla presa di corrente prima di qualsiasi intervento.</li> </ul> <p>Il mancato rispetto di queste istruzioni provocherà morte o gravi infortuni.</p>	<p>存在电击、爆炸或电弧闪烁危险</p> <ul style="list-style-type: none"> <li>• 在操作此设备之前请先关闭电源。</li> </ul> <p>若不遵守这些说明，可能会导致严重的人身伤害甚至死亡。</p>