

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 CN Series solid state relays on a standard 35 mm DIN rail. For additional information visit www.crydom.com

FEATURES

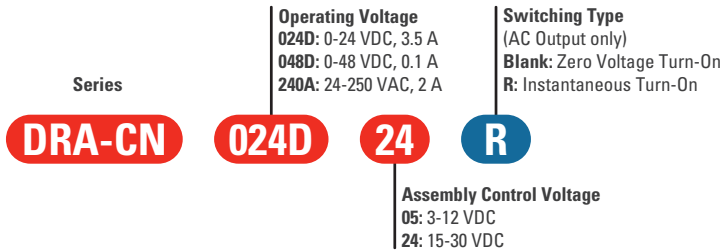
- Factory assembled ready-to-use assemblies for DC input
- 24 VDC @ 3.5 A, 48 VDC @ 100 mA and 240 VAC @ 2 A output ratings
- 6.2 mm wide socket
- LED input status indicator
- Socket clip fits all standard 35 mm DIN rails

INSTALLATION INSTRUCTIONS

Please read all installation instructions before using the assemblies.

- Mount the socket on the DIN rail
- Wire the socket to the control side. AWG #24-14 solid, AWG #24-14 stranded (0.2-2.1 mm²)
- Wire the socket to the load side. AWG #24-14 solid, AWG #24-14 stranded (0.2-2.1 mm²)
- Maximum torque: 5-7 in-lb (0.56-0.8 Nm)
- If multiple units are installed be sure to follow derating curves for assemblies

PART NUMBER NOMENCLATURE (A)



- Required for valid part number
- For options only and not required for valid part number

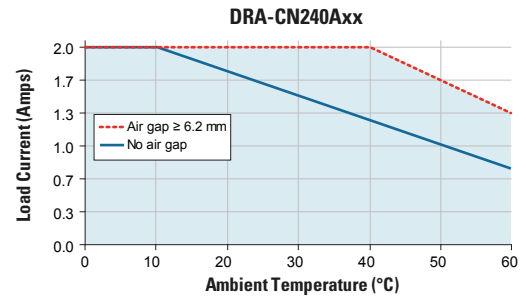
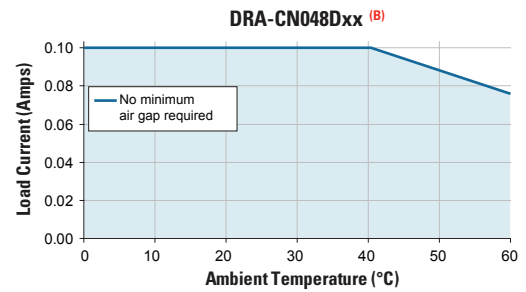
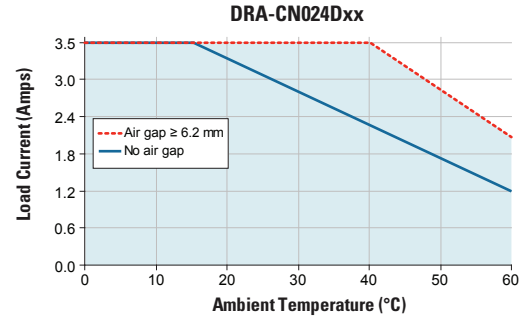
WIRING DIAGRAM

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

(A) Assembly part number is marked on the opposite side of the socket from the socket's labeling.

(B) For 100 mA output SSRs, no airgap is required for full output current rating.

DERATING CURVES



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

<p>HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH</p> <ul style="list-style-type: none"> • Turn off power supply before working on this equipment. <p>Failure to follow these instructions will result in death or serious injury.</p>	<p>RISQUE D'ELECTROCUTION, D'EXPLOSION OU D'ARC ELECTRIQUE</p> <ul style="list-style-type: none"> • Coupez l'alimentation avant de travailler sur cet appareil. <p>Le non-respect de ces instructions provoquera la mort ou des blessures graves.</p>	<p>STROMSCHLAG-, EXPLOSIONS- ODER LICHTBOGENGEFAHR</p> <ul style="list-style-type: none"> • Vor dem Arbeiten an dem Gerät dessen Stromversorgung abschalten. <p>Die Nichtbeachtung dieser Anweisungen führt zu Tod oder schwerer Körperverletzung.</p>
<p>RIESGO DE ELECTROCUCIÓN, EXPLOSIÓN O ARCO ELÉCTRICO</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>RISCHIO DI SCOSSA ELETTRICA, DI ESPLOSIONE O DI OFTALMIA DA FLASH</p> <ul style="list-style-type: none"> • Scollegare l'apparecchio dalla presa di corrente prima di qualsiasi intervento. <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"> • 在操作此设备之前请先关闭电源。 <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>

DRSCN Series DIN Rail Mountable Sockets

The DRSCN sockets provide a convenient and easy way to install CN Series Solid State Relays on a standard 35 mm DIN rail. For additional information visit www.crydom.com

FEATURES

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

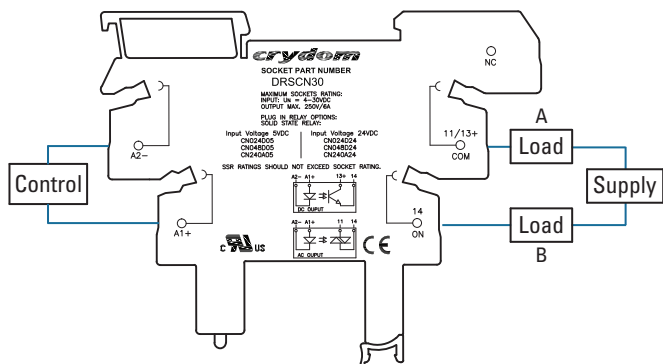
INSTALLATION INSTRUCTIONS

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

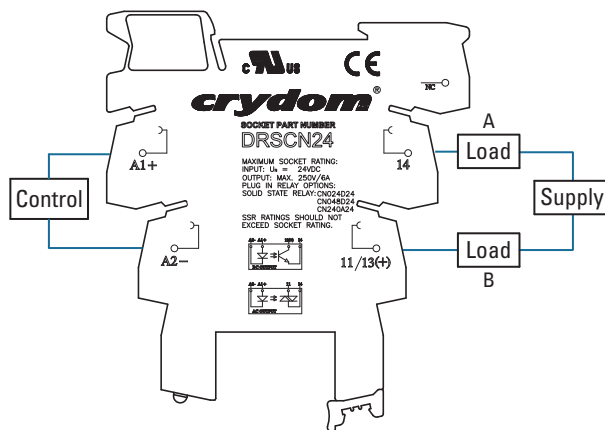
- Match CN Series SSR to appropriate DRSCN socket part number to create an Assembly
- Insert the CN SSR on the socket
- Mount the socket on the DIN rail
- Wire the socket to the control side. AWG #24-14 solid, AWG #24-14 stranded (0.2-2.1 mm²)
- Wire the socket to the load side. AWG #24-14 solid, AWG #24-14 stranded (0.2-2.1 mm²)
- Maximum torque: 5-7 in-lb (0.56-0.8 Nm)
- If multiple units are installed be sure to follow derating curves for assemblies

WIRING DIAGRAMS

DRSCN30



DRSCN05, DRSCN24



PART NUMBER NOMENCLATURE

Series

DRSCN

30

Socket Input Voltage
05: 3-12 VDC
24: 15-30 VDC
30: 4-30 VDC

TABLE 1. Relay/Socket Compatibility (C,D)

SSR Part No.	DRSCN30	DRSCN24	DRSCN05
CN024D05	◆		◆
CN024D24	◆	◆	
CN048D05	◆		◆
CN048D24	◆	◆	
CN240A05	◆		◆
CN240A24	◆	◆	

(C) 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.

(D) Maximum output rating for DRSCN Series sockets is 250 V, 6 Amps regardless of chosen SSR.

(E) Proper polarity must be observed for DC input control voltage sockets being terminal A1+ positive with respect to terminal A2-.

(F) 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.

(G) DC inductive loads must be diode suppressed.

(H) All terminals feature screw M3 slotted drive.

WARNING / AVERTISSEMENT / WARNUNG / ADVERTENCIA / AVVERTENZA / 警告

RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE
 • 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.

Failure to follow these instructions can result in serious injury, or equipment damage.

RIESGO DE DAÑOS MATERIALES Y DE SOBRECIENTAMIENTO DE LA UNIDAD
 • 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.

Si no se respetan estas precauciones pueden producirse graves lesiones, daños materiales.

RISCHIO DI DANNI MATERIALI E D'INVOLUCRO CALDO
 • 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.

Le non-respect de cette directive peut entraîner, des lésions corporelles graves ou des dommages matériels.

RISCHIO DI DANNI MATERIALI E D'INVOLUCRO CALDO
 • 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.

La mancata osservanza di questa precauzione può causare gravi rischi per l'incolumità personale o danni alle apparecchiature.

GEFAHR VON MATERIALSCHÄDEN UND GEHÄUSEERHITZUNG
 • 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.

Die Nichtbeachtung dieser Anweisung kann Körperverletzung oder Materialschäden zur Folge haben.

材料损坏和高温外壳的危险性
 • 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。