

### DR INPUT MODULES



- DIN-Rail Mountable Single Point Input Modules
- AC Inputs (Yellow Case)
- DC Inputs (White Case)
- 4kV Optical isolation
- Input and Output Barrier Strips Accept 14 to 28 AWG Wire
- Configured for Panel Mounting
- Open-Collector Output, with LED Status Indicator

### SPECIFICATIONS (1)

#### Input

| Part Number                        | DR-IAC5       | DR- IAC5A      | DR- IAC24     | DR- IAC24A     |
|------------------------------------|---------------|----------------|---------------|----------------|
| Voltage Range                      | 90-140 VAC/DC | 180-280 VAC/DC | 90-140 VAC/DC | 180-280 VAC/DC |
| Maximum Current [mA](4)            | 6             | 5              | 6             | 5              |
| Resistance [Ohms](2)(3)            | 28 k          | 75 k           | 28 k          | 75 k           |
| Drop-out Current [mA](5)           | 2             | 1.5            | 2             | 1.5            |
| Voltage for No Output [VAC/VDC](6) | 50            | 50             | 50            | 50             |
| Allowable Current [mA]             | 2.5           | 2              | 2.5           | 2              |

#### Output

|                                              |         |         |       |       |
|----------------------------------------------|---------|---------|-------|-------|
| Maximum Voltage[VDC](9)                      | 30      | 30      | 30    | 30    |
| Maximum Voltage Drop [VDC](12)               | 0.2     | 0.2     | 0.2   | 0.2   |
| Nominal Logic Supply Voltage [VDC]           | 5.0     | 5.0     | 24    | 24    |
| Logic Supply Voltage Range [VDC]             | 3.0-6.0 | 3.0-6.0 | 20-30 | 20-30 |
| Maximum Current [mA](10)                     | 50      | 50      | 50    | 50    |
| Maximum Logic Supply Current [mA](7)         | 28      | 28      | 28    | 28    |
| Maximum Logic Supply Leakage Current [μA](8) | 10.0    | 10.0    | 10.0  | 10.0  |
| Maximum Leakage Current [μA](11)             | 10.0    | 10.0    | 10.0  | 10.0  |
| Maximum Turn-On Time [msec] (13)             | 20      | 20      | 20    | 20    |
| Maximum Turn-Off Time [msec] (13)            | 30      | 30      | 30    | 30    |

### SPECIFICATIONS (1)

#### Input

| Part Number                        | DR-IDC5     | DR-IDC5A  | DR-IDC24    | DR-IDC24A |
|------------------------------------|-------------|-----------|-------------|-----------|
| Voltage Range                      | 4-32 VDC/AC | 10-48 VDC | 4-32 VDC/AC | 10-48 VDC |
| Maximum Current [mA](4)            | 34          | 34        | 34          | 34        |
| Resistance [Ohms](2)(3)            | 1 k         | 2 k       | 1 k         | 2 k       |
| Drop-out Current [mA](5)           | 1           | 1         | 1           | 1         |
| Voltage for No Output [VAC/VDC](6) | 2           | 4         | 2           | 4         |
| Allowable Current [mA]             | 1.5         | 1.5       | 1.5         | 1.5       |

#### Output

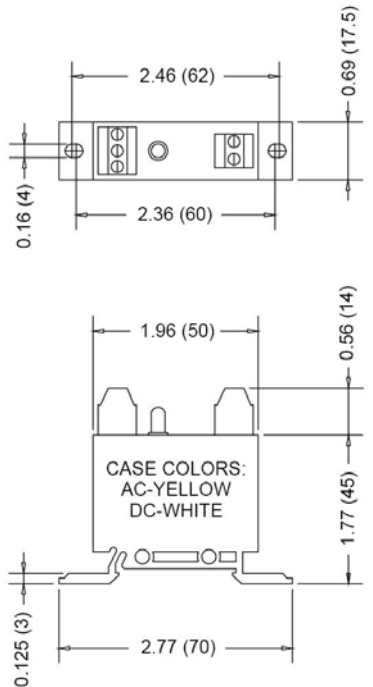
|                                              |         |         |       |       |
|----------------------------------------------|---------|---------|-------|-------|
| Maximum Voltage[VDC](9)                      | 30      | 30      | 30    | 30    |
| Maximum Voltage Drop [VDC](12)               | 0.2     | 0.2     | 0.2   | 0.2   |
| Nominal Logic Supply Voltage [VDC]           | 5.0     | 5.0     | 5.0   | 5.0   |
| Logic Supply Voltage Range [VDC]             | 3.0-6.0 | 3.0-6.0 | 20-30 | 20-30 |
| Maximum Current [mA](10)                     | 50      | 50      | 50    | 50    |
| Maximum Logic Supply Current [mA](7)         | 28      | 28      | 28    | 28    |
| Maximum Logic Supply Leakage Current [μA](8) | 10.0    | 10.0    | 10.0  | 10.0  |
| Maximum Leakage Current [μA](11)             | 10.0    | 10.0    | 10.0  | 10.0  |
| Maximum Turn-On Time [msec] (13)             | 1.0     | 1.0     | 1.0   | 1.0   |
| Maximum Turn-Off Time [msec] (13)            | 1.0     | 1.0     | 1.0   | 1.0   |

### GENERAL SPECIFICATIONS

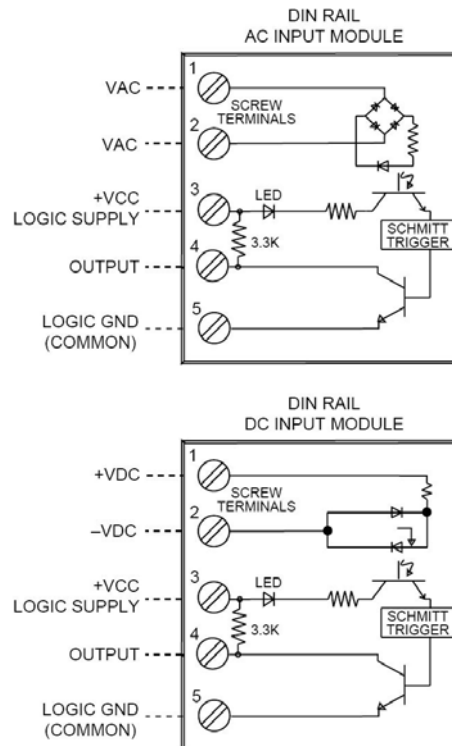
#### Description

|                                     |                 |
|-------------------------------------|-----------------|
| Input/Output Isolation Voltage (14) | 4000            |
| Input/Output Capacitance            | 8               |
| Operating Temperature Range         | -30 to 80°C     |
| Storage Temperature Range           | -40 to 100°C    |
| Line Frequency Range                | 47 to 63        |
| Weight                              | 1.1 oz. (31.2g) |

### MECHANICAL SPECIFICATIONS



DIMENSIONS: INCHES (MILLIMETERS)  
TOLERANCE:  $\pm 0.020$  ( $\pm 0.50$ )



### AGENCY APPROVALS

UL E46203  
CSA 38595



Rev. 040609

|  <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 ELEKTRISCHEN 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            |