

- Status Indicating LED on X4 Series
- UL, CSA, and CE

Solid state I/O switching modules deliver an electrically clean, photo-isolated, noise-free "output" interface from logic level control systems to external loads such as motors, valves, solenoids, etc. -- or an "input" interface from the load or sensors to microprocessor or computer-based logic level systems. Designed for long, reliable service in demanding industrial environments.

## INPUT SPECIFICATIONS

|  | IAC5<br>(S)MIAC5<br>X4IAC5 | IAC15<br>(S)MIAC15<br>X4IAC15 | IAC24<br>(S)MIAC24<br>X4IAC24 | IAC5A<br>(S)MIAC5A<br>X4IAC5A | IAC15A<br>(S)MIAC15A<br>X4IAC15A | IAC24A<br>(S)MIAC24A<br>X4IAC24A |
|--|----------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------------|----------------------------------|
| Nominal input voltage [Vrms/Vdc]       | 120                        | 120                           | 120                           | 240                           | 240                              | 240                              |
| Minimum Input Voltage [Vrms/Vdc]       | 90                         | 90                            | 90                            | 180                           | 180                              | 180                              |
| Maximum Input Voltage [Vrms/Vdc]       | 140                        | 140                           | 140                           | 280                           | 280                              | 280                              |
| Maximum Input Current [mA rms]         | 10                         | 10                            | 10                            | 8                             | 8                                | 8                                |
| Drop Out Current [mA rms]              | 2.5                        | 2.5                           | 2.5                           | 1.5                           | 1.5                              | 1.5                              |
| Allowable Off-state Current [mA rms]   | 3.0                        | 3.0                           | 3.0                           | 2.0                           | 2.0                              | 2.0                              |
| Allowable Off-state Voltage [Vrms/Vdc] | 50.0                       | 50.0                          | 50.0                          | 120                           | 120                              | 120                              |

## OUTPUT SPECIFICATIONS

|   | 5       | 15        | 24        | 5       | 15        | 24        |
|---|---------|-----------|-----------|---------|-----------|-----------|
| Nominal Logic Voltage [Vdc]             | 5       | 15        | 24        | 5       | 15        | 24        |
| Minimum Logic Voltage [Vdc] (X4 Series) | 1.5 (3) | 8.5 (10)  | 16.5 (18) | 1.5 (3) | 8.5 (10)  | 16.5 (18) |
| Maximum Logic Voltage [Vdc] (X4 Series) | 6.0 (7) | 18.5 (20) | 30.5 (32) | 6.0 (7) | 18.5 (20) | 30.5 (32) |
| Typical Logic Supply Current [mAdc]     | 10      | 10        | 10        | 10      | 10        | 10        |
| Max. Logic Supply Current [mAdc]        | 18.5    | 16        | 14        | 18.5    | 16        | 14        |
| Max. Logic Sup. Leak. Current [µAdc]    | 10      | 10        | 10        | 10      | 10        | 10        |
| Maximum Output Voltage [Vdc]            | 30      | 30        | 30        | 30      | 30        | 30        |
| Maximum Output Current [mAdc]           | 50      | 50        | 50        | 50      | 50        | 50        |
| Max. Output Leakage Current [µAdc]      | 10      | 10        | 10        | 10      | 10        | 10        |
| Max. Output Voltage Drop [mVdc]         | 200     | 200       | 200       | 200     | 200       | 200       |
| Maximum Turn-on Time [msec]             | 20      | 20        | 20        | 20      | 20        | 20        |
| Maximum Turn-off Time [msec]            | 30      | 30        | 30        | 30      | 30        | 30        |

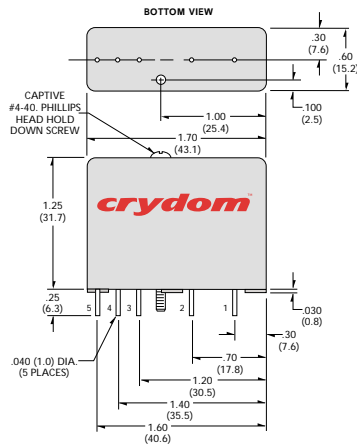
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## GENERAL SPECIFICATIONS

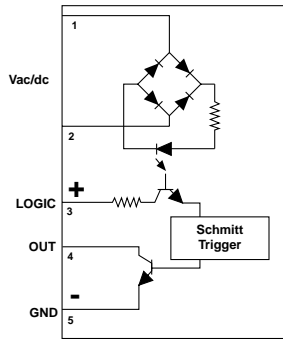
|                             |               |
|-----------------------------|---------------|
| Operating temperature range | -30 to +80°C  |
| Storage temperature range   | -40 to +100°C |
| Isolation                   | 4,000 V rms   |
| Capacitance input to output | 8 pF          |
| Line frequency range        | 47 to 63 Hz   |
| Package Color               | Yellow        |

## WIRING & MECHANICAL DIAGRAMS

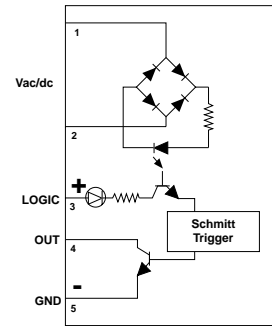
### Standard Series, IAC



### Standard and Mini Pack

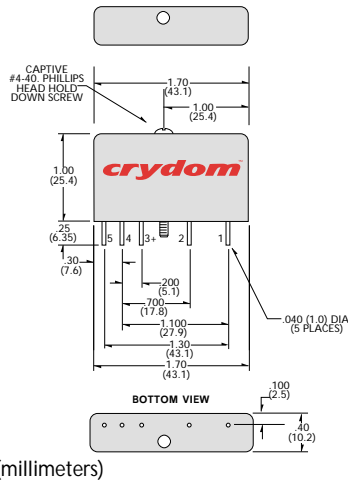


### X4 Series

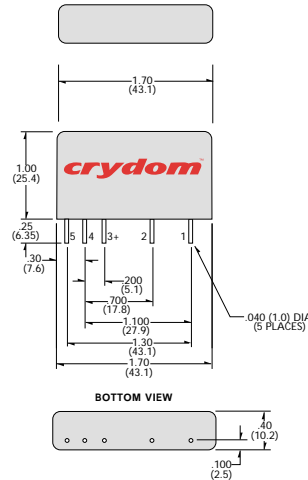


### MINI-PACK Series, (S)MIAC

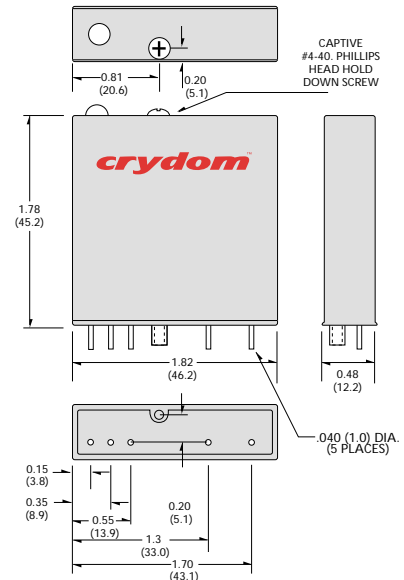
#### SM Prefix



#### M Prefix



### X4 Series, X4IAC



## APPLICATION NOTES

- ⚠ Do not install or remove modules in live (electrically hot) circuits. High voltage may be present.
- ⚠ An externally located commutating diode must be installed across inductive loads
- ⚠ I/O module boards also available

All dimensions are in inches (millimeters)

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