

- Status Indicating LED on X4 Series and 4A Fuse
- UL, CSA, and CE
- Zero Cross Switching

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

| | OAC5 (S)MOAC5 X4OAC5 | OAC15 (S)MOAC15 X4OAC15 | OAC24 (S)MOAC24 X4OAC24 | OAC5A (S)MOAC5A X4OAC5A | OAC15A (S)MOAC15A X4OAC15A | OAC24A (S)MOAC24A X4OAC24A |
|--|----------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------------|----------------------------------|
| Nominal Input Voltage [Vdc] | 5 | 15 | 24 | 5 | 15 | 24 |
| Min. Input Voltage @ pin 3 [Vdc] (X4 Series) | 3.0 (4) | 8.5 (10) | 16.5 (18) | 3.0 (4) | 8.5 (10) | 16.5 (18) |
| Max. Input Voltage @ pin 3 [Vdc] (X4 Series) | 8.0 (7.5) | 18.5 (20) | 29.0 (30.5) | 8.0 (7.5) | 18.5 (20) | 29.0 (30.5) |
| Must Turn Off Voltage [Vdc] | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Typical Input Current [mA _{dc}] | 10 | 10 | 10 | 10 | 10 | 10 |
| Max. Input Current [mA _{dc}] | 27 | 20 | 13.5 | 27 | 20 | |
| Nominal Input Resistance [ohm] | 240 | 900 | 2.2K | 240 | 900 | 2.2K |

OUTPUT SPECIFICATIONS

| | | | | | | |
|---|-----|-----|-----|-----|-----|-----|
| Nominal Line Voltage [V _{rms}] | 120 | 120 | 120 | 240 | 240 | 240 |
| Max. Line Voltage [V _{rms}] | 140 | 140 | 140 | 280 | 280 | 280 |
| Min. Line Voltage [V _{rms}] | 12 | 12 | 12 | 24 | 24 | 24 |
| Max. Peak Off-State Voltage [V _{peak}] | 400 | 400 | 400 | 600 | 600 | 600 |
| Max. Off-State Leakage Current [mA _{rms}] | 2.5 | 2.5 | 2.5 | 4.5 | 4.5 | 4.5 |
| Static Off-State (dv/dt)[V/μs] | 200 | 200 | 200 | 200 | 200 | 200 |
| Max. On-State Current [A _{rms}] | 3 | 3 | 3 | 3 | 3 | 3 |
| Min. On-State Current [mA _{rms}] | 50 | 50 | 50 | 50 | 50 | 50 |
| Max. One Cycle Surge [A _{peak}] | 100 | 100 | 100 | 100 | 100 | 100 |
| Peak On-State Voltage [V _{peak}] | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Max. Turn-On Time [cycles] | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| Max Turn-Off Time [cycles] | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| Derating [mA per ° above 25° C] | 33 | 33 | 33 | 33 | 33 | 33 |
| Fuse Rating [fast-acting] (X4 Series Only) | 4A | 4A | 4A | 4A | 4A | 4A |

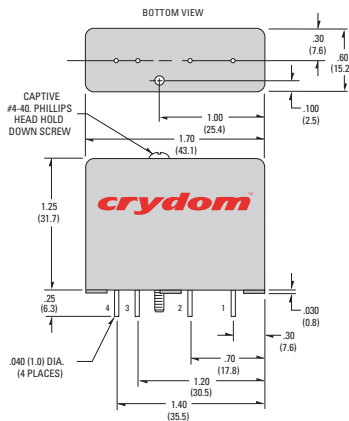
© 2007 CRYDOM Inc., Specifications subject to change without notice.

GENERAL SPECIFICATIONS

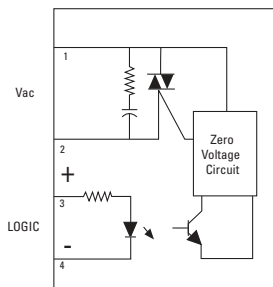
| | |
|-----------------------------|---------------|
| Operating temperature range | -30 to +80°C |
| Storage temperature range | -40 to +100°C |
| Isolation | 4,000 Vrms |
| Capacitance input to output | 8 pF |
| Line frequency range | 47 to 63 Hz |
| Package Color | Black |

WIRING & MECHANICAL DIAGRAMS

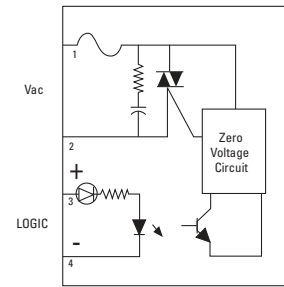
Standard Series, OAC



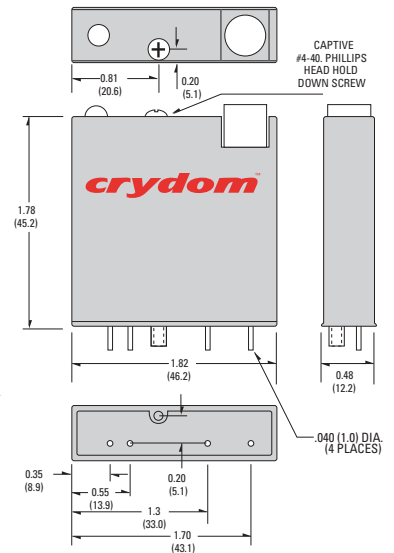
Standard and Mini Pack



X4 Series

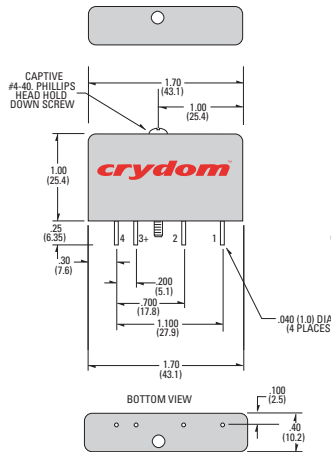


X4 Series, X40AC

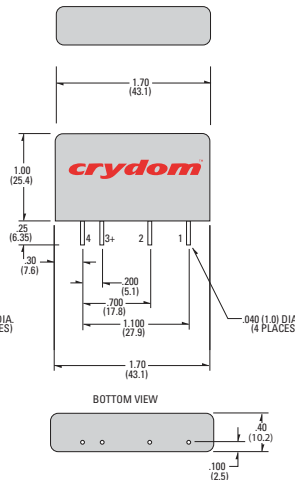


MINI-PACK Series, (S)MOAC

SM Prefix



M Prefix



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)

© 2007 CRYDOM Inc., Specifications subject to change without notice.

For recommended applications and more information contact:
USA: Sales Support (877) 502-5500 Tech Support (877) 702-7700 FAX (619) 710-8540
 Crydom Inc., 2320 Paseo de las Americas, Ste. 201, San Diego, CA 92154
Email: sales@crydom.com **WEB SITE:** http://www.crydom.com
UK: +44 (0)1202 606030 • **FAX** +44 (0)1202 606035 Crydom SSR Ltd., Arena Business Centre,
 Holyrood Close, Poole, Dorset BH17 7FJ, Email: intsales@crydom.com.
GERMANY: +49 (0)180 3000 506

ANNEX – ENVIRONMENTAL 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 |

附件 - 环保信息:

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 |

