QUAD Series

Output I/O Modules

CRYDOM

Control over power

- **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	OAC5Q	OAC5AQ	ODC5Q	ODC5AQ
Nominal Input Voltage	5 Vdc	5 Vdc	5 Vdc	5 Vdc
Min. Input Voltage	4.0 Vdc	4.0 Vdc	4.0 Vdc	4.0 Vdc
Max. Input Voltage	6.0 Vdc	6.0 Vdc	6.0 Vdc	6.0 Vdc
Drop Out Voltage	1.0 Vdc	1.0 Vdc	1.0 Vdc	1.0 Vdc
Max. Input Current	15 mAdc	15 mAdc	15 mAdc	15 mAdc
Typical Input Current	10 mAdc	10 mAdc	10 mAdc	10 mAdc
Nominal Input Resistance	240 Ω	240 Ω	240 Ω	240 Ω
OUTPUT SPECIFICATIONS				
Nominal Line Voltage	120 Vrms	240 Vrms	—	—
Max. Line Voltage	140 Vrms	280 Vrms	60 Vdc	200 Vdc
Min. Line Voltage	12 Vrms	24 Vrms	3.0 Vdc	5.0 Vdc
Max. Off-State Voltage	400 Vpeak	600 Vpeak	60 Vdc	200 Vdc
Max. Off-State Leakage Current	2.5 mArms	4.5 mArms	1.0 mAdc	2.0 mAdc
Static Off-State (dv/dt)	200 V/µs	200 V/µs	—	—
Max. On-State Current	3.0 Arms	3.0 Arms	3.0 Adc	1.0 Adc
Min. On-State Current	50 mArms	50 mArms	10 mAdc	10 mAdc
Max. One-Cycle Surge	100 Apeak	100 Apeak	—	—
Max On-State Voltage	1.6 Vpeak	1.6 Vpeak	1.5 Vdc @ 25°C	1.6 Vdc @ 25°C
Max. 1 Second Surge	—	—	5 Adc	5 Adc
Max. Turn-On Time	1/2 Cycle	1/2 Cycle	50 µs	50 µs
Max. Turn-Off Time	1/2 Cycle	1/2 Cycle	100 µs	100 µs

For recommended applications and more information contact:
USA: (800) 8 CRYDOM • (800) 827-9366 • (619) 715-7200 • fax (619) 715-7280
Crydom Corp, 9525 Chesapeake Drive, San Diego, CA 92123 • e-mail: sales@crydom.com
WEB SITE: http://www.crydom.com **FASTFAX Product Information:** (888) 267-9191
UK: (44)1202 812300 • fax (44)1202 812340 Crydom International Ltd., 85, Condor Close, Woolsbridge Industrial Estate, Three-Legged Cross. Wimborne, Dorset, England BH21 6SU
GERMANY: (49) (0)6874 182580 • fax (49)(0)6874 182585 Crydom GmbH, Gewerbegebiet Im Schachen, D-66687 Nunkirchen, Germany • e-mail: vertrieb@crydom.com

ISO 9002 CERTIFIED

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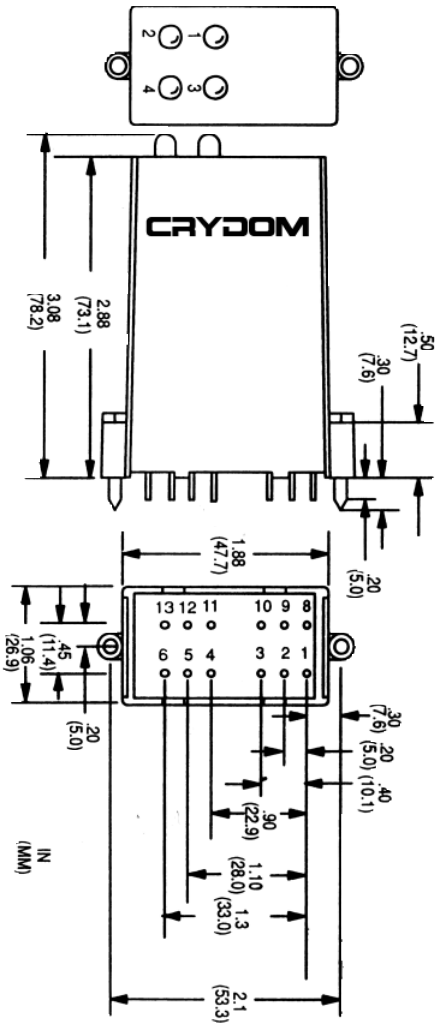
GENERAL SPECIFICATIONS

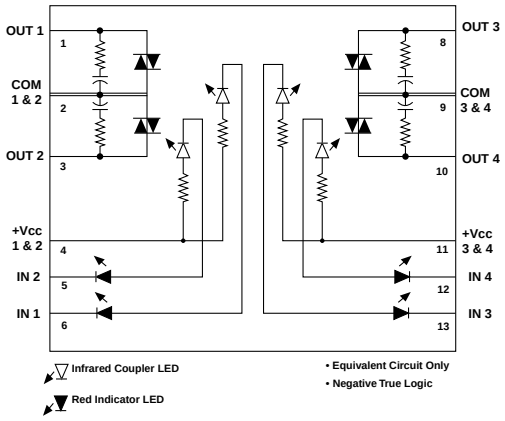
Operating temperature range	–30 to +80°C
Storage temperature range	–40 to +100°C
Isolation	4,000 Vrms
Capacitance input to output	8 pF
Line frequency range	47 to 63 Hz

APPLICATION NOTES

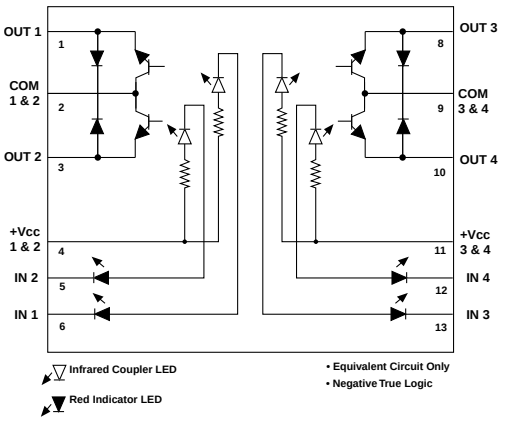
- Do not install or remove modules in live (electrically hot) circuits. High voltage may be present.
- Input connections are polarized for AC & DC modules. Output connections are non-polarized for AC modules.
- The controlled voltage on the input pins (in 1, 2, 3, and 4) cannot exceed 3 Vdc higher than +Vcc. This is a limitation of the reverse breakdown voltage of the status indicator LEDs.
- An externally located commutating diode must be installed across inductive loads for DC modules..

WIRING & MECHANICAL DIAGRAMS





AC Output
(Package Color = Black)



DC Output
(Package Color = Red)

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