



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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- 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 (S)MIAC5 X4IAC5	IAC15 (S)MIAC15 X4IAC15	IAC24 (S)MIAC24 X4IAC24	IAC5A (S)MIAC5A X4IAC5A	IAC15A (S)MIAC15A X4IAC15A	IAC24A (S)MIAC24A 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

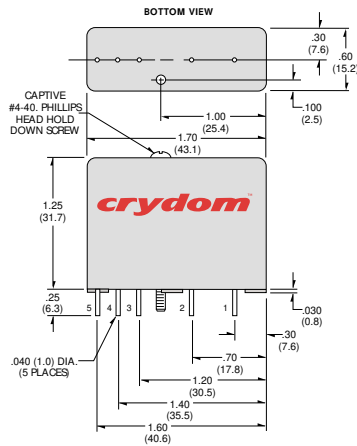
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## GENERAL SPECIFICATIONS

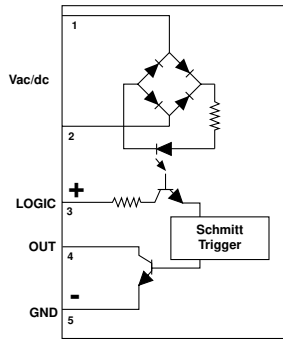
Operating temperature range	-30 to +80°C
Storage temperature range	-40 to +100°C
Isolation	4,000 V rms
Capacitance input to output	8 pF
Line frequency range	47 to 63 Hz
Package Color	Yellow

## WIRING & MECHANICAL DIAGRAMS

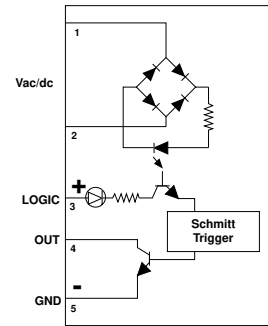
### Standard Series, IAC



### Standard and Mini Pack

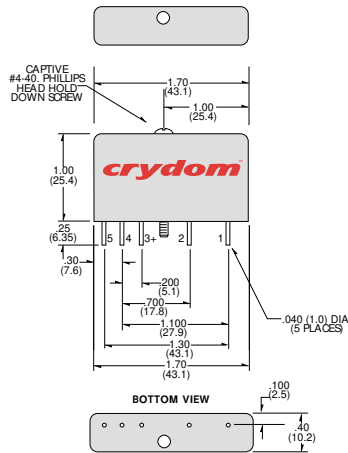


### X4 Series

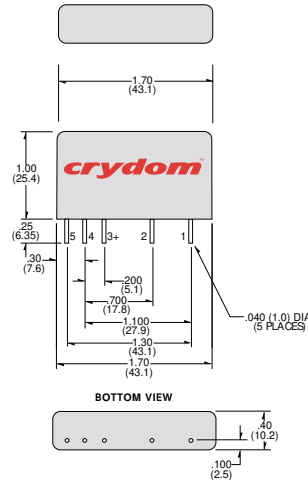


### MINI-PACK Series, (S)MIAC

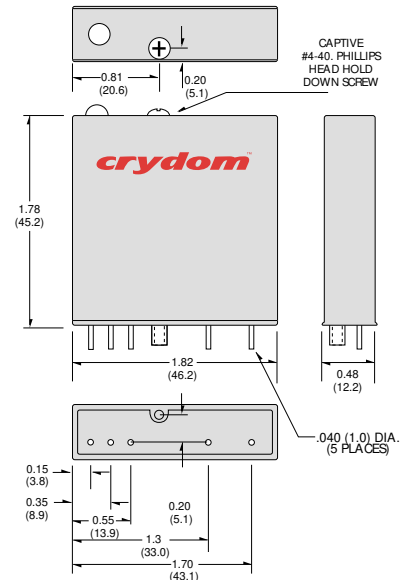
#### SM Prefix



#### 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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