crydom™

Series ODC, (S)MODC, X4ODC

DC Output Modules

- **Status Indicating LED on X4 Series and 4A Fuse**
- **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	**ODC5 (S)MODC5 X4ODC5**	**ODC15 (S)MODC15 X4ODC15**	**ODC24 (S)MODC24 X4ODC24**	**ODC5A (S)MODC5A X4ODC5A**	**ODC15A (S)MODC15A X4ODC15A**	**ODC24A (S)MODC24A X4ODC24A**
Nominal Input Voltage [Vdc]	5	15	24	5	15	24
Min. Input Voltage @ pin 3 [Vdc] (X4 Series)	2.5 (4)	8.5 (10)	16.5 (18)	2.5 (4)	8.5 (10)	16.5 (18)
Max. Input Voltage @ pin 3 [Vdc] (X4 Series)	7.5 (7.5)	20 (20)	30.5 (30.5)	7.5 (7.5)	20 (20)	30.5 (30.5)
Must Turn Off Voltage [Vdc]	1.0	1.0	1.0	1.0	1.0	1.0
Typical Input Current [mAdc]	10	10	11	10	10	11
Max. Input Current [mAdc]	27	20	15	27	20	15
Nominal Input Resistance [ohm]	240	900	2.2K	240	900	2.2K
OUTPUT SPECIFICATIONS						
Nominal Line Voltage [Vdc]	24	24	24	100	100	100
Max. Line Voltage [Vdc]	60	60	60	200	200	200
Min. Line Voltage [Vdc]	3	3	3	5	5	5
Max. Peak Off-State Voltage [V]	60	60	60	200	200	200
Max. Off-State Leakage Current [mAdc]	1.0	1.0	1.0	2.0	2.0	2.0
Max. On-State Current [Adc]	3	3	3	1	1	1
Min. On-Sate Current [mAdc]	10	10	10	10	10	10
Max. One Second Surge [A peak]	5	5	5	5	5	5
Max. On-State Voltage @ 25C [V peak]	1.5	1.5	1.5	1.5	1.5	1.5
Max. Turn-On Time [µsec]	50	50	50	50	50	50
Nominal Turn-On Time [µsec]	10	10	10	10	10	10
Max. Turn-Off Time [µsec]	100	100	100	100	100	100
Derating [mA per °C]		33 Above 25° C			20 Above 60° C	
Fuse Rating [fast-acting] (X4 Series Only)	4A	4A	4A	4A	4A	4A

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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
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ISO 9001 CERTIFIED

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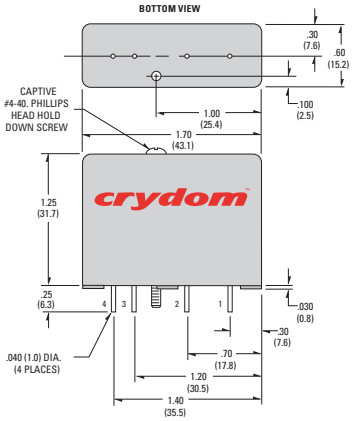
DC Output Modules

GENERAL SPECIFICATIONS

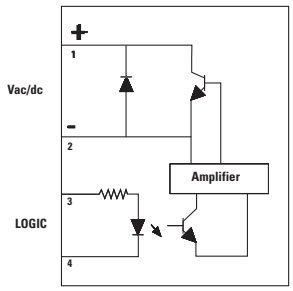
Operating temperature range	–30 to +80°C
Storage temperature range	–40 to +100°C
Isolation	4,000 Vrms
Capacitance input to output	8 pF
Package Color	Red

WIRING & MECHANICAL DIAGRAMS

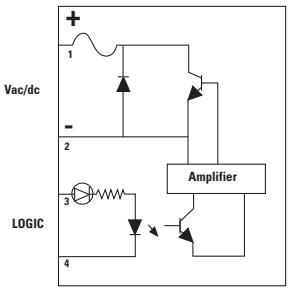
Standard Series, ODC



Standard and Mini Pack

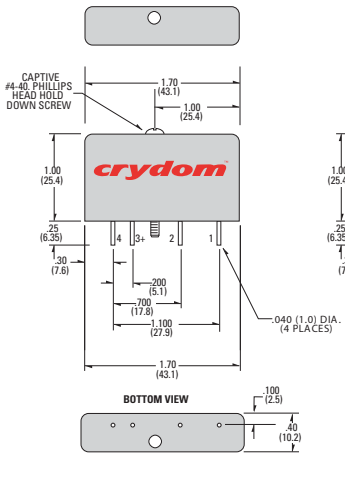


X4 Series

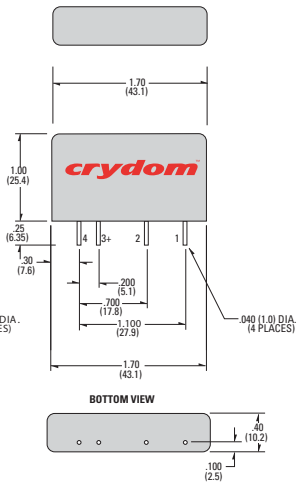


MINI-PACK Series, (S)MODC

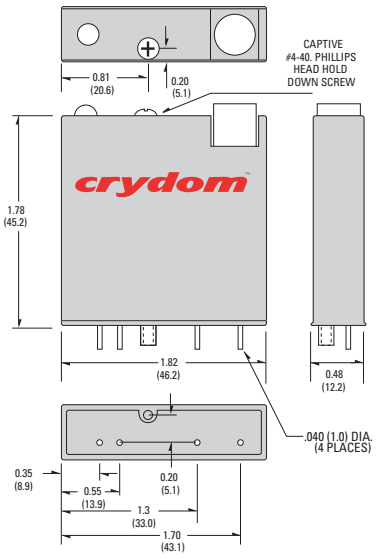
SM Prefix



M Prefix



X4 Series, X4ODC



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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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保信息
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



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