



Series IDC, (S)MIDC, X4IDC

DC Input Modules

- **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

	IDC5 (S)MIDC5 X4IDC5	IDC15 (S)MIDC15 X4IDC15	IDC24 (S)MIDC24 X4IDC24	IDC5D (S)MIDC5D X4IDC5D	IDC15D (S)MIDC15D X4IDC15D	IDC24D (S)MIDC24D X4IDC24D
Nominal Input Voltage [Vdc]	24	24	24	24	24	24
Min. Input Voltage [Vdc]	10	10	10	3.3	3.3	3.3
Max. Input Voltage [Vdc]	36	36	36	32	32	32
Nominal Input Resistance [ohm]	-	-	-	1K	1K	1K
Max. Input Current [mAdc]	16	16	16	32	32	32
Drop Out Current [mAdc]	1.0	1.0	1.0	1.0	1.0	1.0
Allowable Off-State Current [mAdc]	1.0	1.0	1.0	1.0	1.0	1.0
Allowable Off-State Voltage [Vdc]	2.0	2.0	2.0	2.0	2.0	2.0

OUTPUT SPECIFICATIONS

	5	15	24	5	15	24
Nominal Logic Voltage [Vdc]	5	15	24	5	15	24
Min. Logic Voltage [Vdc] (X4 Series)	1.5 (3)	8.5 (10)	16.5 (18)	1.5 (3)	8.5 (10)	16.5 (18)
Max. Logic Voltage [Vdc] (X4 Series)	6.0 (7)	18.5 (20)	30.5 (32)	5.5 (7)	18.5 (20)	30.5 (32)
Typical Logic Supply Current [mAdc]	10	10	10	10	10	10
Max. Logic Supply Current [mAdc]	18	16	14	18	16	14
Max. Logic Supply Leakage Current [μAdc]	10	10	10	10	10	10
Max. Output Voltage [Vdc]	30	30	30	30	30	30
Max. 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
Max. Turn-On Time [μsec] ①	1000	1000	1000	300	300	300
Max. Turn-Off Time [μsec] ①	1000	1000	1000	600	600	600

GENERAL NOTES

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① At nominal voltage and room temperature.





Control over power

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GENERAL SPECIFICATIONS

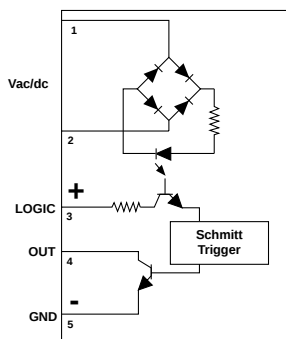
Operating temperature range	-30 to +80° C
Storage temperature range	-40 to +100° C
Isolation	4,000 Vrms
Capacitance input to output	8 pF
Package Color	White

APPLICATION NOTES

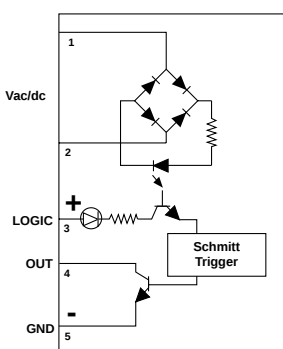
- Do not install or remove modules in live (electrically hot) circuits. High voltage may be present.
- An externally located commutating diode must be installed across inductive loads
- I/O module boards also available

WIRING & MECHANICAL DIAGRAMS

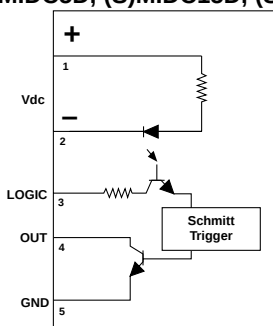
IDC5, IDC15, IDC24
(S)MIDC5, MIDC15, MIDC24



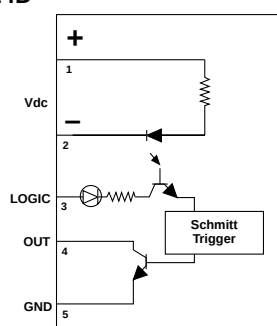
X4IDC5, X4IDC15, X4IDC24



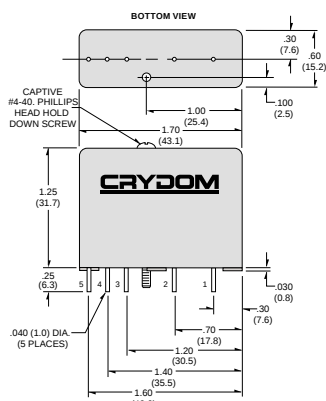
IDC5D, IDC15D, IDC24D
(S)MIDC5D, (S)MIDC15D, (S)MIDC24D



X4IDC5D, X4IDC15D, X4IDC24D

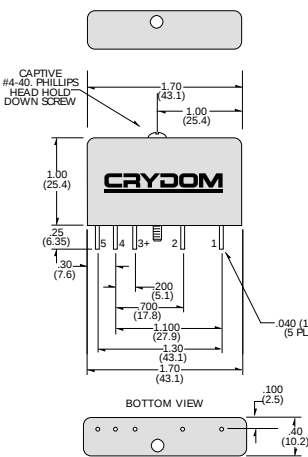


Standard Series, IDC

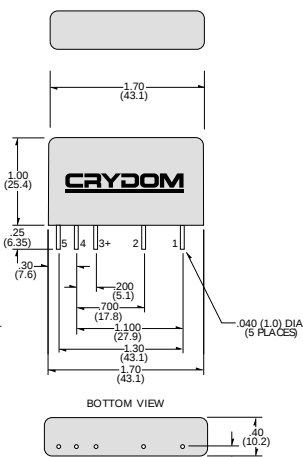


MINI-PACK Series, (S)MIDC

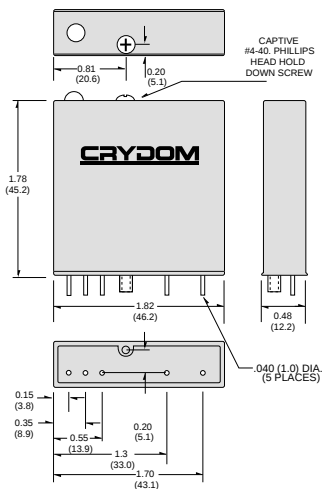
SM Prefix



M Prefix



X4 Series, X4IDC



All dimensions are in inches (millimeters)

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