## **DC Output Buffered Modules**

- Compatible with 5 & 15 Volt Logic Systems
- Buffered Inverting and Non-Inverting Modules

Buffered output modules contain additional internal amplification to reduce drive requirements to a level suitable for the MOS devices used in many microprocessor systems. To further reduce the need for additional interface components, they are available with both inverting and non-inverting inputs, for 5 volt or 15 volt logic.

(All voltages referenced to pin 5)	6311	6321	6341	6351
Nominal Input Voltage [Vdc]	5	5	15	15
Output Module Type	Non-Inverting	Inverting	Non-Inverting	Inverting
Must Turn On Voltage Range @pin 4 [Vdc]	0.0 - 0.8	2.4 - 6.0	0.0 - 2.0	8.0 - 18
Must Turn Off Voltage Range @pin 4 [Vdc]	2.4 - 6.0	0.0 - 0.8	8.0 - 18	0.0 - 2.0
Max. Input On-Current (Snk) @pin 4 [μA]	75 @0.8V	_	175@2.0V	_
	100 @0.0V	—	250 @0.0V	_
Max. Input On-Current (Source) @pin 4 [µA]	_	75 @2.4V		75 @8.0V
	_	250 @6.0V	_	200 @18V
Max. Input Current For Output (Sink)	10	10	10	10
Off-State@pin 4 [μA] ② (Source)	10	10	10	10
Logic Supply Voltage Range [Vdc]	3.5 - 6.0	3.5 - 6.0	10 -18	10 -18
Max. Logic Supply Current (w/o LED) @5Vdc [mA]	D 20	20	25	25
Max. Logic Supply Current (w/LED) @5Vdc[mA] ①	15	15	22	22

#### **OUTPUT SPECIFICATIONS**

Control over power

Load Current Range @45° C [A]	0.02 - 3.5	0.02 - 3.5	0.02 - 3.5	0.02 - 3.5
Load Voltage Range [Vdc]	3.0 - 60	3.0 - 60	3.0 - 60	3.0 - 60
Max. Surge Current [A]	5.0	5.0	5.0	5.0
Max. On-State Voltage [Vdc]	1.5	1.5	1.5	1.5
Max. Off-State Leakage [mA]	1.0	1.0	1.0	1.0
Max. Turn On Time [µS]	100	100	100	100
Max. Turn Off Time [µS]	100	100	100	100
Transient Overvoltage [Vdc]	60	60	60	60

#### GENERAL NOTES

① LED optional. Placed in series with pin 3 for status indication.

② Max. allowable leakage current from driver maintain output off-state.

③ Inductive loads must be diode suppressed.

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 6SJ GEFMANY: (49) (0)6874 182580 • fax (49)(0)6874 182585 Crydom GmbH, Gewerbegebiet Im Schachen, D-66687 Nunkirchen, Germany • e-mail: vertrieb@crydom.com



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# **DC Output Buffered Modules**

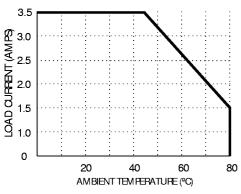
#### **GENERAL SPECIFICATIONS**

Min. Dielectric Input/Output (1 minute)	4,000 VRMS	
Min. Isolation Resistance Input/Output (@500V)	10 <sup>10</sup> Ohms	
Capacitanœ input to output	8 pF	
 Temperature Range — Operating	-40° C to 80° C	
Temperature Range — Storage	-40° C to 125° C	



Control over power

#### CURRENT DERATING CURVE



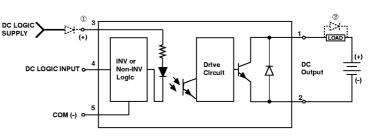
Max. Load Current vs. Temp.

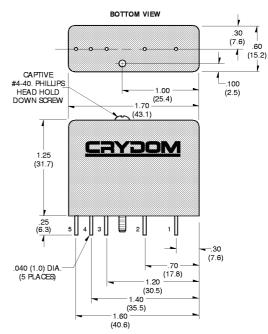
#### BUFFERED OUTPUT MODULES

A buffered non-inverting module turns on when pin 4 is held in the low state (logic 0), the same as standard modules driven in the sink mode. A buffered inverting module conversely turns on when pin 4 is held high (logic 1). In the absence of an input signal and/or logic supply (open Circuit), all models will be in the off-state.

Buffered modules may be used with standard 5 pin PB or MS mounting boards. However, the 3.3K pull-up resistor will add to the logic drive current of a non-inverting module and may be removed. For an inverting module, the resistor <u>must</u> be removed to avoid a false "on" command, unless a "normally closed" condition is desirable for use with a ground seeking (logic 0) signal source.

#### WIRING & MECHANICAL DIAGRAMS





All dimensions are in inches (millimeters)

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