crydom®

series oneDR

Solid State Relays & Timers

The Global Expert in Solid State Switching Technology

Sensata Technologies

crydom

SeriesOne DR Single Channel
DIN Rail Mounted AC/DC Output Solid State Relays

- 3, 6 & 12 Amps output power rating
- 60 & 100 VDC, 24 to 600 VAC operating voltage ratings
- 4-32 VDC, 24, 120 & 230 VAC control input options available
- IP20 housing with unique integrated heat sink design (patented)
- AC Output versions with Zero Voltage Turn-On for resistive loads and Random Turn-On for inductive loads
- High power density for multiple units
- UL and cUL Listed, HP Rated, CE & RoHS Compliant
- UL Class I and II, Division 2, for Hazardous Locations

II 3G Ex nA IIC T4 Gc

AC OUTPUT SPECIFICATIONS (A)	DR24x03	DR48x03	DR24x06	DR48x06	DR24x12	DR48x12
Operating Voltage Range (47-63Hz AC Only) [VAC]	24-280	48-600	24-280	48-600	24-280	48-600
Maximum Load Current [Arms] (B)	3	3	6	6	12	12
Minimum Load Current [Arms]	0.15	0.15	0.15	0.15	0.15	0.15
Maximum Surge Current (60 Hz, 1 cycle) [Apk] (Duration in ms)	300 (16.6)	300 (16.6)	300 (16.6)	300 (16.6)	750 (16.6)	750 (16.6)
Maximum Surge Current (50 Hz, 1 cycle) [Apk] (Duration in ms)	285 (20)	285 (20)	285 (20)	285 (20)	715 (20)	715 (20)
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.3	1.3	1.3	1.3	1.3	1.3
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	0.1	0.1	0.1	0.1	0.1	0.1
Transient Overvoltage [Vpk]	600	1200	600	1200	600	1200
Minimum Off-State dv/dt @ Max. Rated Voltage [V/µsec] (C)	500	500	500	500	500	500
Maximum I^2t for Fusing (10/8.3 ms) [A^2sec]	410/375	410/375	410/375	410/375	2560/2330	2560/2330
Power Factor (Minimum) with Maximum Load	0.5	0.5	0.5	0.5	0.5	0.5
Maximum Turn-On Time (D)	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle
Maximum Turn-Off Time (E)	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle	1/2 cycle
UL Motor Controller Ratings @ 240 VAC [HP / FLA]	1/4 / 2.9	1/4 / 2.9	1/2 / 4.9	1/2 / 4.9	1 / 8	1 / 8
UL Motor Controller Ratings @ 380 VAC [HP / FLA]	N/A	1/3 / 2.3	1 / 5.1	1 / 5.1	2 / 7.7	2 / 7.7
UL Motor Controller Ratings @ 480 VAC [HP / FLA]	N/A	1/2 / 2.5	2 / 6	2 / 6	3 / 8.5	3 / 8.5

DC OUTPUT SPECIFICATIONS (A)	DR06x03	DR10x03	DR06x06	DR10x06	DR06x12	DR10x12
Operating Voltage Range (47-63Hz AC Only) [VDC]	1-60	1-100	1-60	1-100	1-60	1-100
Maximum Load Current [ADC] (B)	3	3	6	6	12	12
Minimum Load Current [mA DC]	2.5	2.5	2.5	2.5	2.5	2.5
Maximum Surge Current [Apk] (Duration in ms)	60 (10)	60 (10)	60 (10)	60 (10)	100 (10)	100 (10)
Maximum On-State Voltage Drop @ Rated Current [Vpk]	0.6	0.6	0.6	0.6	0.5	0.5
Maximum On-State Resistence [Ohm]	0.1	0.1	0.1	0.1	0.045	0.045
Maximum Off-State Leakage Current @ Rated Voltage [mADC]	0.1	0.1	0.1	0.1	0.1	0.1
Maximum Turn-On Time [µsec] (D)	600	600	600	600	600	600
Maximum Turn-Off Time [µsec] (E)	300	300	300	300	300	300

INPUT SPECIFICATIONS (A)	DRxxDxx	DRxxExx	DRxxBxx	DRxxAxx
Control Voltage Range	4-32 VDC	18-36 VAC	90-140 VAC	200-265 VAC
Minimum Turn-On Voltage	4 VDC	18 VAC	90 VAC	200 VAC
Minimum Turn-Off Voltage	1 VDC	4 VAC	10 VAC	90 VAC
Reverse Polarity Protection	Yes	N/A	N/A	N/A
Typical Input Current	10 mA @ 24 VDC (C)	6 mA @ 24 VAC	5 mA @ 120 VAC	3 mA @ 230 VAC

GENERAL SPECIFICATIONS (A)	DRxxx03	DRxxx06	DRxxx12
Dielectric Strength, Input to Output. AC Output Versions (50/60Hz) [Vrms]		4000	
Dielectric Strength, Input to Output. DC Output Versions [Vrms]		2500	
Dielectric Strength, Input-Output to Case (50/60Hz) [Vrms]		2500	
Minimum Insulation Resistance (@ 500 VDC) [Ohm]		10^9	
Maximum Capacitance, Input/Output [pF]		10	
Ambient Operating Temperature Range [°C]		-30 to 80	
Ambient Storage Temperature Range [°C]		-40 to125	
Weight (typical) [oz] (gr)	1.76 (50)	1.76 (50)	3.17 (90)
Housing Material		UL 94 V0 Self-extinguishing	

Complete specifications of these & other Crydom products available at: www.crydom.com

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SeriesOne DR Dual Channel
DIN Rail Mounted AC Output Solid State Relays

- Two independent 6 Amp channels
- DIN rail mount 18 mm wide package
- 4-32 VDC control input
- 24 to 600 VAC operating voltage ratings
- IP20 housing with unique integrated heat sink design (patented)
- AC Output versions with Zero Voltage Turn-On for resistive loads and Random Turn-On for inductive loads
- High power density for multiple units
- UL and cUL Listed, HP Rated, CE & RoHS Compliant
- UL Class I and II, Division 2, for Hazardous Locations

II 3G Ex nA IIC T4 Gc

OUTPUT SPECIFICATIONS (A)	DRD24D06	DRD48D06
Operating Voltage Range (47-63Hz) [VAC]	24-280	48-600
Maximum Load Current (B)	6 Arms per channel	6 Arms per channel
Minimum Load Current [Arms]	0.15	0.15
Maximum Surge Current [Apk] @ 60 Hz (Duration in ms)	750 (16.6)	750 (16.6)
Maximum Surge Current [Apk] @ 50 Hz (Duration in ms)	715 (20)	715 (20)
Maximum On-StateVoltage Drop @ Rated Current [Vpk]	1.3	1.3
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	0.1	0.2
Transient Overvoltage [Vpk]	600	1200
Minimum Off-State dv/dt @ Max. Rated Voltage [V/µsec] (C)	500	500
Maximum I^2t for Fusing (10/8.3 ms) [A^2sec]	2560/2330	2560/2330
Power Factor (Minimum) with Maximum Load	0.5	0.5
Maximum Turn-On Time (D)	1/2 cycle	1/2 cycle
Maximum Turn-Off Time	1/2 cycle	1/2 cycle
UL Motor Controller Ratings @ 240 VAC [HP / FLA]	1/2 / 4.9	1/2 / 4.9
UL Motor Controller Ratings @ 380 VAC [HP / FLA]	1 / 5.1	1 / 5.1
UL Motor Controller Ratings @ 480 VAC [HP / FLA]	2 / 6	2 / 6

INPUT SPECIFICATIONS (A)	DRDxxD06
Control Voltage Range [VDC]	4-32
Minimum Turn-On Voltage [VDC]	4
Minimum Turn-Off Voltage [VDC]	1
Reverse Polarity Protection	Yes
Typical Input Current (per channel)	10 mA @ 24 VDC (F)

GENERAL SPECIFICATIONS (A)	DRDxxD06
Dielectric Strength, Input to Output. (50/60 Hz) [Vrms]	2500
Dielectric Strength, Input-Output to Case (50/60Hz) [Vrms]	2500
Minimum Insulation Resistance (@ 500 VDC) [Ohm]	10^9
Maximum Capacitance, Input/Output [pF]	10
Ambient Operating Temperature Range [°C]	-30 to 80
Ambient Storage Temperature Range [°C]	-30 to 125
Weight (typical) [oz] (gr)	3.17 (90)
Housing Material	UL 94 V0 Self-extinguishing

ID Marker Strips
CNLB, CNLN, CNL2

Packages of 10 plastic strips comprising 10 individual markers which can be placed for easy identifications during the use of multiple units.

Blank Strips
Part no.: CNLB

Numbered 1 to Strips
Part no.: CNLN

10 Numbered 11 to 20 Strips
Part no.: CNL2

Part Number Nomenclature (G)

Series DR

Number of Channels
Blank: One N.O. Channel
D: Two N.O. Channels

Operating Voltage
06: 1-60 VDC
10: 1-100 VDC
24: 24-280 VAC
48: 48-600 VAC

Control Voltage (One Channel, AC Output Only)
D: 4-32 VDC
A: 200-265 VAC
B: 90-140 VAC
E: 18-36 VAC

Rated Load Current
03: 3 Amps (One Channel Only)
06: 6 Amps
12: 12 Amps (One Channel Only)

Agency Approvals (H)
X: ATEX II 3G Ex nA IIC T4 Gc approved

Switching Type
Blank: Zero Voltage Turn-On (AC Output Only)
R: Instantaneous Turn-On (AC Output, DC Control Only)

Required for valid part number
For options only and not required for valid part number

General Notes

(A) All parameters at 25°C unless otherwise specified
(B) Minimum spacing required between devices (see derating curves on the reverse side of this brochure)
(C) Off-State dv/dt test method per EIA/NARM standard RS-433, paragraph 13.11.1
(D) Turn-On time for Random-type AC output is 0.1 ms for DC control models and 20 ms for AC control models
(E) Turn-Off time for AC Output versions with AC control is 30 ms
(F) Input circuit incorporates active current limitation
(G) Not all combinations of ratings are available
(H) Only the versions with the "X" suffix carry the ATEX rating

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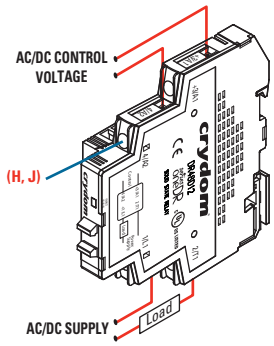
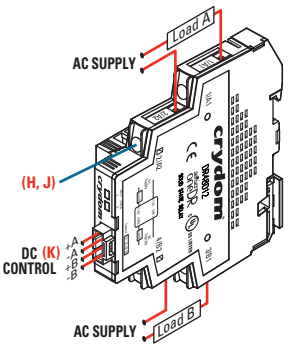
Wiring Diagrams

DRxxx03, DRxxx06 or DRxxx12

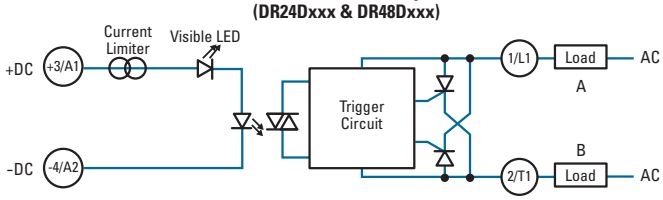


DRDxxD06

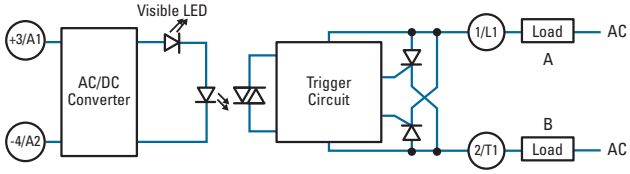


Block Diagrams (L)

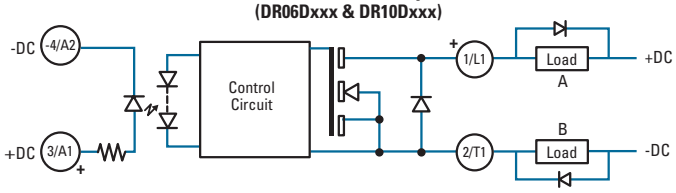
DC Control, AC Output (DR24Dxxx & DR48Dxxx)



AC Control, AC Output (DR24xxxx & DR48xxxx A, B, E suffixes)



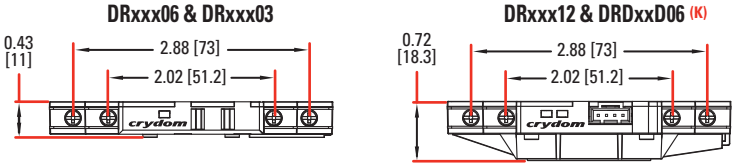
DC Control, DC Output (M) (DR06Dxxx & DR10Dxxx)



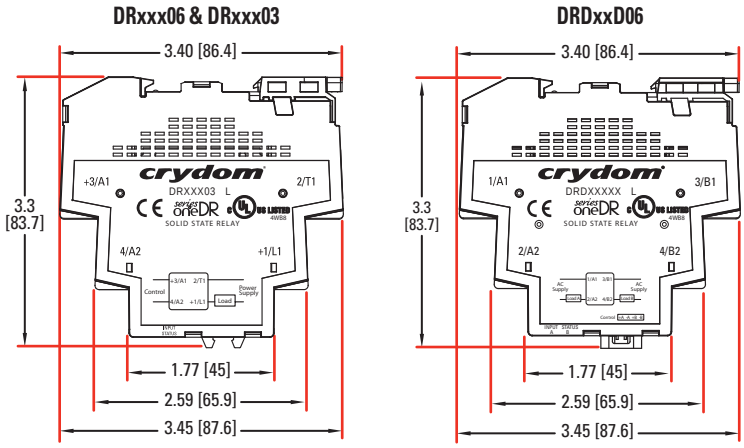
Mechanical Dimensions

Tolerances: ±0.02 in / 0.5 mm
All dimensions are in: inches [millimeters]

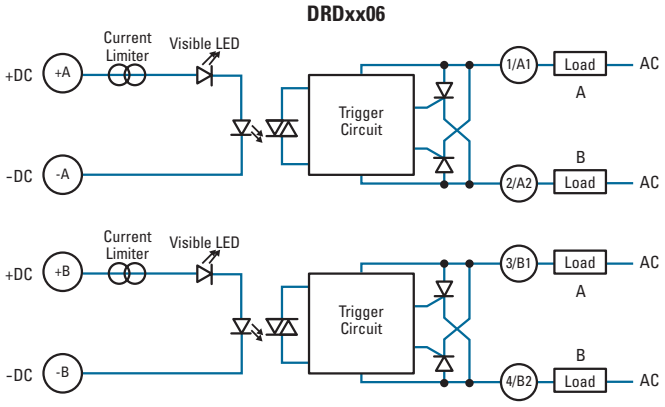
FRONT VIEW



SIDE VIEW



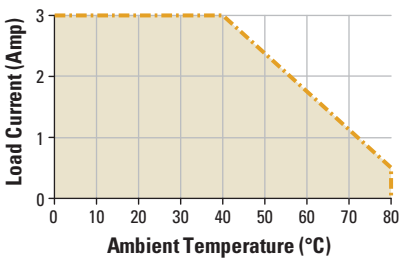
DRDxx06



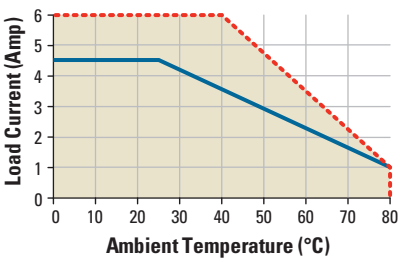
Derating Curves

- Single and multiple units for DRxx03
- Installed single unit, distance to adjacent components ≥ 11 mm for DRxxx06 and ≥ 18 mm for DRxxx12 & DRDxxD06
- Multiple units, no minimum spacing between components

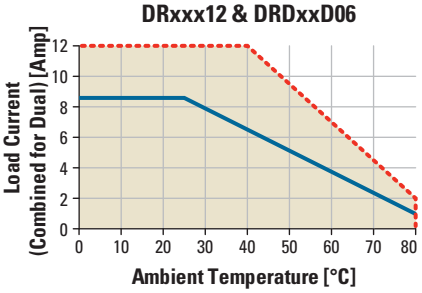
DRxxx03



DRxxx06



DRxxx12 & DRDxxD06



(H) 4 Terminal screws Pozidrive #1, 3/16 in (4.8 mm).
(J) Minimum wire insulation strip length 0.20 in (5.1 mm), maximum 0.28 in (7.1 mm).
(K) 4 Pin connector for dual channel output only. Mating connector: MOLEX 050579404 or equivalent.
(L) Load can be wired in position A or B
(M) No grounding wire required. DC inductive loads must be diode suppressed.

Complete specifications of these & other Crydom products available at: www.crydom.com

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SeriesOne DR Timer

DIN Rail Mounted AC & DC Output Solid State Relay Timers

- Single channel 6 Amps output power rating
- Compact Size (11 mm wide)
- 60 VDC & 280 VAC operating voltage ratings
- 12-24, 90-140 & 180-240 VAC/DC control input options available
- 8 Industry standard functions (A/At, B, C, D/Di, H/Ht, L/Li, Ac, Bw)
- IP20 Housing with unique integrated heat sink design (patented)
- LED Input/Timer status indicator
- AC Output versions with Zero Voltage Turn-On for resistive loads and Random Turn-On for inductive loads
- UL Listed & cUL recognized
- UL & IEC General Use & Motor Control rated

OUTPUT SPECIFICATIONS (A)	DRTx24x06x	DRTx06D06
Operating Voltage Range [Vrms]	24-280 VAC (47-440 Hz)	1-60 VDC
Maximum Load Current [Arms]	6	6
Minimum Load Current [Arms]	0.15	2.5 mA
1 Cycle Surge Current (50/60 Hz) [Apk]	285/300 (N)	NA
Maximum Surge Current (10ms) [Adc]	NA	60 (P)
Maximum On-State Voltage Drop @ Rated Current [Vpk]	≤ 1.3 V	≤ 0.6 VDC
Maximum On-State Resistance (RDS-ON) [Ohms]	NA	0.034
Maximum Off-State Leakage Current @ Rated Voltage [mA]	0.1	0.25 (Q)
Transient Overvoltage [Vpk]	600	NA
Maximum Operating Voltage	NA	1-48 VDC
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/µsec]	500	NA
Maximum I^2t for Fusing (50/60Hz) [A^2 sec]	410/375	NA
Minimum Power Factor (with Maximum Load)	0.5	NA
UL 508 Resistive Load [A] (R)	6	6
UL 508 Motor Controller [HP/FLA] (R)	1/3 / 3.6	NA
IEC 62314 LC-A [FLA]	6	NA
IEC 62314 LC-B [Kw]	0.250	NA

INPUT SPECIFICATIONS (A)	DRTx24D06x	DRTx24A06x	DRTx24B06	DRTx06D06
Control Voltage Range [VAC/DC]	12-24	180-240	90-140	12-24
Minimum Turn-On Voltage [VAC/DC]	12	180	90	12
Must Turn-Off Voltage [VAC/DC]	1	20	10	1
Minimum Input Current (for On-State) [mA ± 10%] (S)	7.6/6.3 @ 12 VAC/DC	7.2/7.1 @ 180 VAC/DC	7.6/7.4 @ 90 VAC/DC	15.7/12.4 @ 12 VAC/DC
Maximum Input Current [mA ± 10%] (S)	12.1/9.1 @ 24 VAC/DC	9.7/9.6 @ 240 VAC/DC	12.5/12.3 @ 140 VAC/DC	27.9/20.3 @24 VAC/DC
Maximum Turn-On Time	Per function (T, U)			
Maximum Turn-Off Time	Per function (T, U)			

GENERAL SPECIFICATIONS (A)	DRTx24x06x	DRTx06D06
Dielectric Strength, Input-Output to Baseplate (50/60Hz) [Vrms]	3750	2500
Minimum Insulation Resistance (@ 500 VDC)	10^9	
Maximum Capacitance, Input/Output [pF]	10	
Ambient Operating Temperature Range [°C]	-30 to 80	
Ambient Storage Temperature Range [°C]	-40 to125	
Status Indicator Display	Green (V)	
Air Gap (Spacing) ratings (Amps)	6 A / 11 mm or 4.5 A / No Spacing	
Weight (typical) in either [oz] (gr)	1.76 (50)	
Housing Material	Self-extinguishing	
Terminal Finish	Sulfamate Nickel	
Humidity	5 to 85%	

TABLE 1. Timing Ranges (U)

Identification	Timing Range
1s	0.1 s **to** 1 s
10 s	1 s **to** 10 s
1 min	0.1 min **to** 1 min
10 min	1 min **to** 10 min
1 h	0.1 h **to** 1 h
10 h	1 h **to** 10 h
100 h	10 h **to** 100 h

General Notes

(N) Tj initial: 25°C, tp: 8.3 ms
(P) Output Voltage = 2.5 VDC
(Q) Output Voltage = 150 V, Control Voltage = 0 V, TJ = 125°C
(R) For UL listing the housing can not exceed 130°C or the load terminals exceed 105°C
(S) Input current varible ± 10% per function
(T) Timing accuracy ± 10%
(U) See TABLE 1 and TABLE 3
(V) See TABLE 2

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series oneDR TIMER

Part Number Nomenclature

Series DRT

A — **Timing Function**
- **A:** A/At, Delay on Make
- **B:** Single Shot
- **C:** Delay on Break
- **H:** H/Ht, Interval
- **L:** L/Li, Repeat Cycle
- **U:** Multifunction (A/At, H/Ht, D/Di, B, C, Ac & Bw)

24 — **Operating Voltage**
- **06:** 60 VDC
- **24:** 280 VAC

D — **Control Voltage**
- **D:** 12-24 VAC/DC
- **A:** 180-240 VAC/DC
- **B:** 90-140 VAC/DC

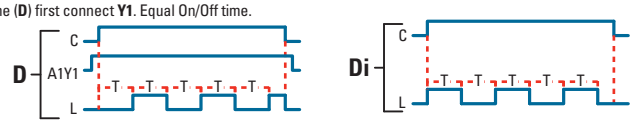
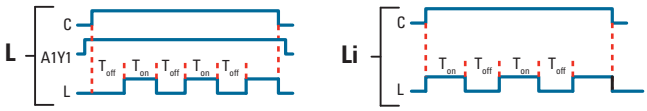
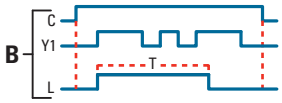
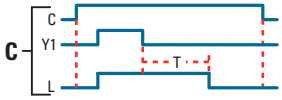
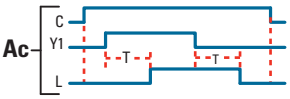
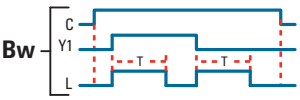
} AC Output Only

06 — **Rated Load Current**
- **06:** 6 Amps

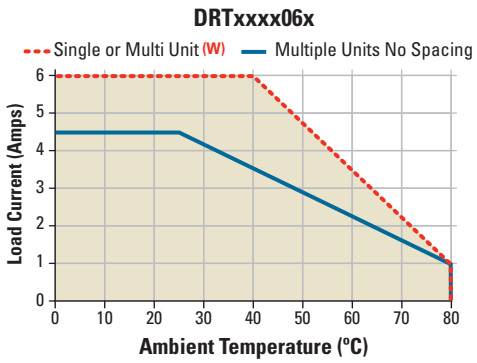
R — **Switching Type** (24 suffix only)
- **Blank:** Zero Voltage Turn-On
- **R:** Random Turn-On

Required for valid part number
For options only and not required for valid part number

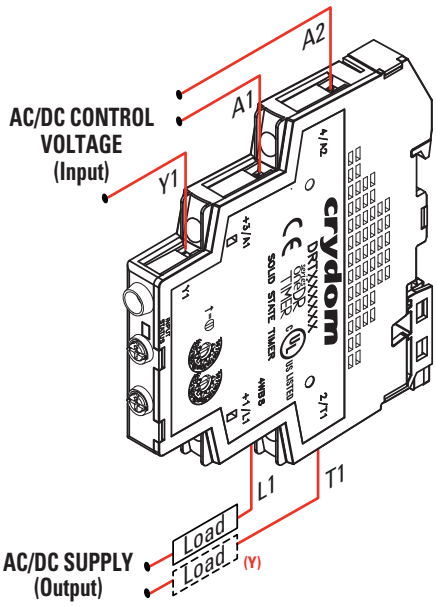
TABLE 2. LED Status by Function

Function	Control Voltage	Y1	Timing	Output State	LED Status	Notes
A/At Delay On Make	Off	◆	Off	Off	Off	**At** function is identical to the **A** function except when **Y1** is connected to **A1** timing is paused. When **Y1** is removed timing resumes until relay times out. To reset timer remove control power. 
	On	◆	On	Off	Long Flashes	
	On	◆	Timed Out	On	On	
H/Ht Interval	Off	◆	Off	Off	Off	**Ht** function is identical to the **H** function except when **Y1** is connected to **A1** timing is paused. When Y1 is removed timing resumes until relay times out. To reset timer remove control power. 
	On	◆	On	On	Long Flashes	
	On	◆	Timed Out	Off	Short Flashes	
D/Di Repeat Cycle	Off	◆	Off	Off	Off	To select between on time (**Di**) first or off time (**D**) first **Y1** is connected. Default is On time (**Di**) first, for Off time (**D**) first connect **Y1**. Equal On/Off time. 
	On	◆	On	On/Off	Long Flashes/Short Flashes	
L/Li Repeat Cycle	Off	◆	Off	Off	Off	To select between on time (**Li**) first or off time (**L**) first **Y1** is connected **A1**. Default is On time (**Li**) first, for Off time (**L**) first connect **Y1** to **A1**. Time delay is independent of each other. 
	On	◆	On	On/Off	Long Flashes/Short Flashes	
B Single Shot	Off	Open	Off	Off	Off	**Y1** switch can be momentary or maintained to **A1**. To reset timer after relay has timed out **Y1** has to be opened. 
	On	Open	Off	Off	Short Flashes	
	On	Closed	On	On	Long Flashes	
	On	Closed	Timed Out	Off	Short Flashes	
C Delay On Break	Off	Open	Off	Off	Off	**Y1** switch to **A1** must be momentary for timing to begin. If during timing **Y1** is closed again the time delay is reset and will begin again once **Y1** is removed. Once timed out timer is reset and ready for the next cycle. 
	On	Open	Off	Off	Short Flashes	
	On	Closed	Off	On	On	
	On	Open	On	On	Long Flashes	
	On	Open	Timed Out	Off	Short Flashes	
Ac Delay On Make / Delay On Break	Off	Open	Off	Off	Off	To start Delay on Make (**A**) timing connect **Y1** to **A1** and maintain until LED is on Solid then to start Delay on Break (**c**) portion remove **Y1** until relay times out. Removing **Y1** During (**A**) portion or Connecting **Y1** during (**c**) portion will reset time for that portion. 
	On	Open	Off	Off	Short Flashes	
	On	Closed	On	Off	Long Flashes	
	On	Closed	Timed Out	On	On	
	On	Open	On	On	Long Flashes	
	On	Open	Timed Out	Off	Short Flashes	
Bw	Off	Open	Off	Off	Off	**Y1** to **A1** switch can be momentary or maintained. If maintained until relay has timed out removing it will start timing again. If momentary and timers has timed out reapplying **Y1** will start timing again. 
	On	Open	Off	Off	Short Flashes	
	On	Closed	On	On	Long Flashes	
	On	Closed	Timed Out	Off	Short Flashes	

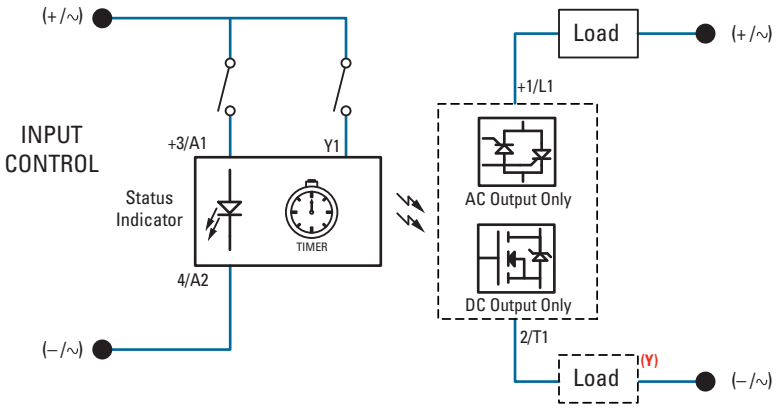
Derating Curves



Wiring Diagram (X)



Block Diagram



Mechanical Dimensions

Tolerances: ±0.02 in / 0.5 mm
All dimensions are in: inches [millimeters]

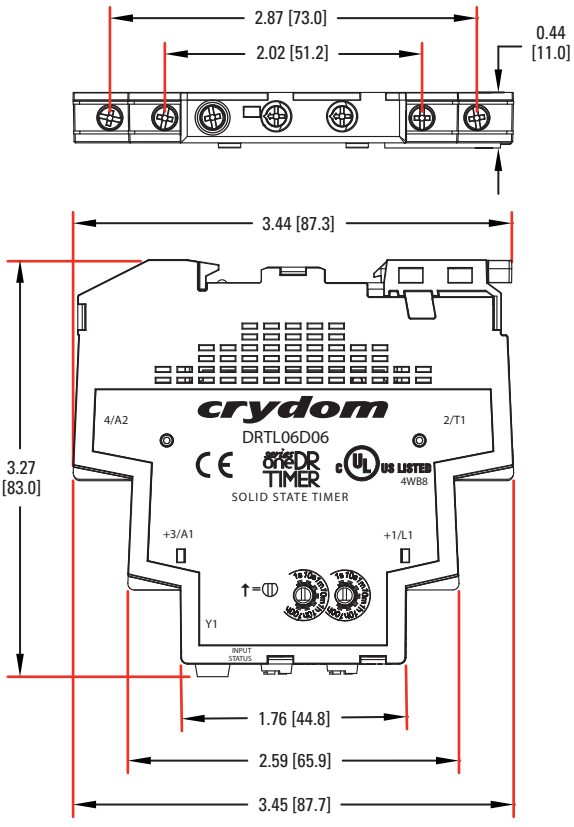


TABLE 3. Timer Settings

Timing Function	Identification: Side View	Identification: Front View
U Multifunction [A/At, H/Ht, D/Di, B, C, Ac, Bw]	Range, Function	Fine Adjustment
L Repeat Cycle	T on, T off	Fine Adjustment
A Delay on Make **H** Interval **B** Single Shot **C** Delay on Break	Range	Fine Adjustment

(W) Minimum spacing between units is 11 mm
(X) No grounding wire required. DC inductive loads must be diode suppressed
(Y) Load is allowed in either terminal L1 or terminal T1

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