

altronic[®] DISN[®] 801M

DIGITAL IGNITION SYSTEM FOR INDUSTRIAL ENGINES 3-12 CYLINDERS

- MULTIPLE APPLICATIONS IN ONE UNIT
- MULTIPLE TIMING CONTROL METHODS
- MAGNETIC PICKUP TRIGGERED
- SINGLE PICKUP SYSTEM — EASY INSTALLATION, RELIABLE OPERATION
- HIGH ENERGY, CAPACITOR DISCHARGE SUITABLE FOR LEAN-BURN ENGINES
- ACCURATE IGNITION TIMING IMPROVES ENGINE PERFORMANCE AND STARTABILITY
- SIMPLE ON-BOARD DIAGNOSTICS FOR SYSTEM TROUBLESHOOTING

The Altronic DISN 801M is a 12-24 Vdc powered, microcircuit-based digital ignition system applicable to small and medium-sized stationary gas engines. These systems, which are offered in 8 and 12 output versions, bring all the advanced features of the Altronic DISN 800/801 systems to small engine series. The DISN 801M is more economical due to the magnetic pickup triggering used.

Advanced features of the DISN 801M system include:

- Multiple applications from common unit
- Timing control by manual switch, two-degree offset input, or analog signal (potentiometer or 4-20 mA)
- Dual energy settings
- Alarm output for ignition fault
- LED diagnostics

The two-degree offset input can be used with a temperature or pressure switch to effect retarded timing at high temperatures or load. The analog timing control allows for more sophisticated timing control strategies.

The system consists of the DISN 801M unit, magnetic pickup, timing trigger disc, wiring harnesses and an ignition coil for each spark plug. The trigger disc and magnetic pickup are normally referenced to the engine's camshaft providing for a single firing event per engine cycle. The trigger disc may also be referenced to the engine crankshaft for double-firing application.

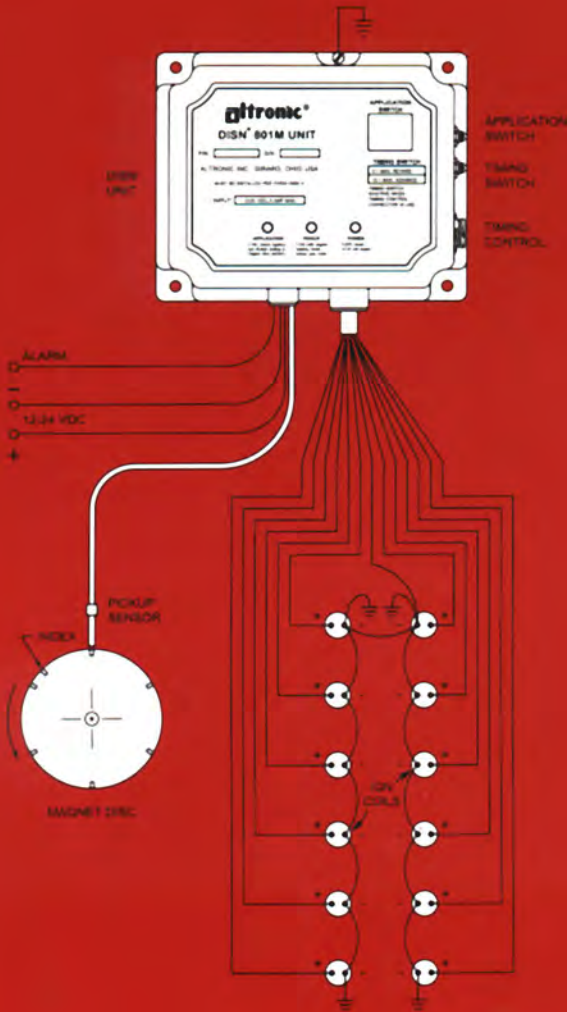
On-board diagnostics consisting of three LED'S assist in determining problems with the basic input signals to the ignition:

- Power
- Pickup, gap and cable
- Correct trigger disc pattern for the selected application

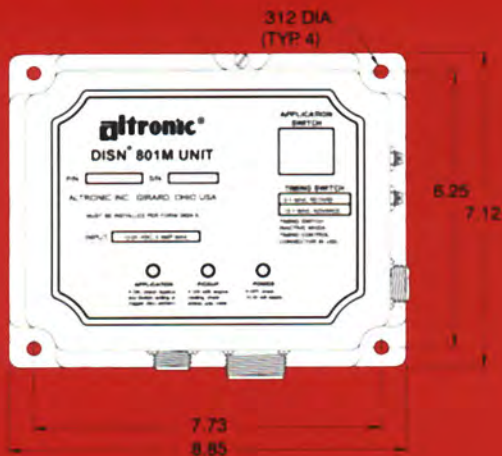
The DISN 801M system eliminates moving parts and delivers high timing accuracy and stability. Incorporating capacitor discharge technology, DISN 801M systems provide maximum engine performance, extended spark plug life and advanced features for today's modern gas engines.



DISN 801M WIRING DIAGRAM:



DIMENSIONS:



DISN 801M SYSTEM

APPLICATIONS:

ENGINE TYPE	UNIT	
	791808-050M	791812-050M
3-cylinder in-line	x	
4-cylinder in-line	x	
5-cylinder in-line	x	
6-cylinder in-line	x	x
8-cylinder in-line	x	x
V8, even 90° firing	x	x
V12, even 60° firing		x
V12, 30°-90° firing		x

DISN 801M COMPONENTS (select from each category below):

PART NO.	DESCRIPTION
791808-050M	DISN 801M unit, 8-output
791812-050M	DISN 801M unit, 12-output
790302-1	Trigger disc, 7.45" (4-cyl. crankshaft ref.)
790303-1	Trigger disc, 7.45" (3,6-cyl. crankshaft ref.)
790314-1	Trigger disc, 5.00" (4-cyl. camshaft ref.)
790316-1	Trigger disc, 5.00" (6,12-cyl. camshaft ref.)
790318-1	Trigger disc, 5.00" (8-cyl. camshaft ref.)
791016-2	Magnetic pickup, 3/4"-16 x 3.4"
791018-2	Magnetic pickup, 5/8"-18 x 2.5"
793008-6	Harness, 3-6 cyl. 180" (use with 791808-050M)
793008-8	Harness, 8-cyl. 180" (use with 791808-050M)
793012-6	Harness, 6-cyl. 180" (use with 791812-050M)
793012-8	Harness, 8-cyl. 180" (use with 791812-050M)
793012-12	Harness, 12-cyl. 180" (use with 791812-050M)
793075-1	Control cable, 80"
793075-2	Control cable, 120"
793076-1	Pickup cable, 72"
793076-2	Pickup cable, 140"
501061	Unshielded coil, standard
591010	Unshielded coil, long duration

SPECIFICATIONS:

NO. OF CYLINDERS	3-12
POWER REQUIRED	12VDC, 3.0 Amp 24VDC, 1.5 Amp
MAX. VOLTAGE OUTPUT	45 KV
SPARK DURATION	300-600 microsec.

**altronic[®]
inc.**

712 TRUMBULL AVE / GIRARD, OH 44420
(330) 545-9768 / FAX: (330) 545-9005