

OHIO DUTY-CYCLE™ MAGNET CONTROLLERS

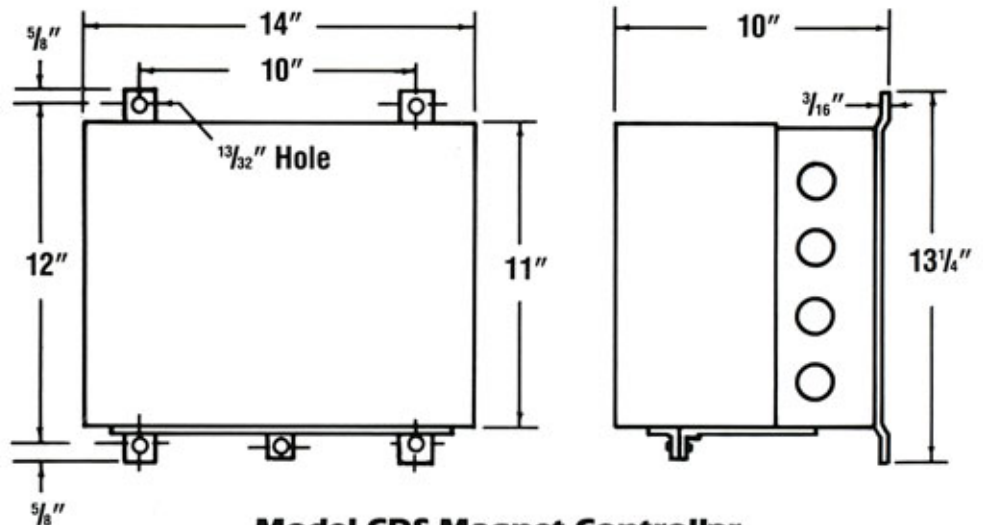
MODEL CDS

230 VDC. Operating Range: Manual 1-20 Amps Automatic 5-20 Amps

Model CDS is the smallest controller in Ohio's line. It features robust contact tips and heavy-duty movable parts. It cuts inventory costs since all parts are interchangeable with larger Ohio Controllers.

- Automatic Drop. One movement of master switch (either pushbutton or lever type is standard). The controller automatically senses precise amount of reverse current to clear magnet of load.
- Manual Drop. For precise control of small, low-amperage-draw magnets. If additional control of plates, or dribbling of scrap is desired, move switch from LIFT to OFF position. This dissipates magnetism slowly through discharge resistors. When ready to drop load, move switch to DROP, and hold until magnet has cleaned itself. Switch returns to OFF on release.

CAUTION: Do not mount so that controller is exposed to weather, excessive moisture, oil or dirt. Mount only in vertical position. Do not use with magnets requiring 4600 watts. Keep entire magnet system free from grounds or shorts.



Model CDS Magnet Controller

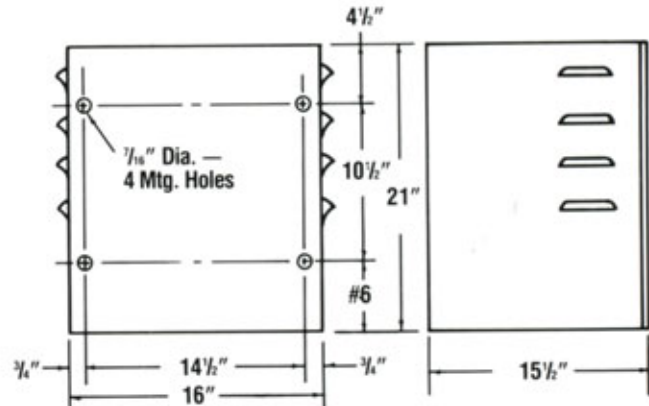
OHIO DUTY-CYCLE™ MAGNET CONTROLLERS

MODEL RD1W

230 VDC. Operating Range: Automatic and Manual 20-100 Amps

Model RD1W is the "wide-range" control that has adjustable drop time on the automatic model. It features robust contact tips and heavy-duty movable parts. It cuts inventory costs since all parts are interchangeable with other Ohio Controllers.

- **AUTOMATIC DROP.** One movement of master switch (either pushbutton or lever type standard). Controller automatically senses amount of reverse current to clear magnet of load, depending on the setting of the rheostat which is easily adjustable for variations in materials to be handled.
- **MANUAL DROP.** For precise control of small, low-amperage-draw magnets. If additional control of plates, or dribbling of scrap is desired, move switch from LIFT to OFF. This dissipates magnetism slowly through discharge resistors. When ready to drop load, move switch to DROP, and hold until magnet has cleaned itself. Switch returns to OFF on release.



Model RD1W Magnet Controller

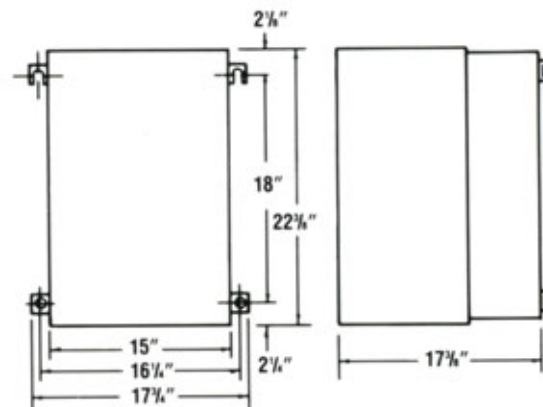
CAUTION: Do not mount so that controller is exposed to weather, excessive moisture, oil or dirt. Mount only in vertical position. Do not use with magnets requiring over 23,000 watts. Keep entire magnet system free from grounds or shorts.

MODEL RD2A

230 VDC. Operating Range: Automatic and Manual 100-150 Amps

Model RD2A is the hard-working controller based on its amperage rating and the 65-inch diameter and larger magnets it operates. It features robust contact tips and heavy-duty movable parts. It cuts inventory costs since all parts are interchangeable with other Ohio Controllers.

- **AUTOMATIC DROP.** One movement of master switch (either pushbutton or lever type standard). Controller automatically senses amount of reverse current to clear magnet of load, depending on the setting of rheostat which is easily adjustable for variations in materials to be handled.
- **MANUAL DROP.** For precise control of small, low-amperage-draw magnets. If additional control of plates, or dribbling of scrap is desired, move switch from LIFT to OFF. This dissipates magnetism slowly through discharge resistors. When ready to drop load, move switch to DROP, and hold until magnet has cleaned itself. Switch turns to OFF on release.



Model RD2A Magnet Controller

CAUTION: Do not mount so that controller is exposed to weather, excessive moisture, oil or dirt. Mount only in a vertical position. Do not use with magnets requiring over 34,500 watts. Keep entire magnet system free from grounds or shorts.

OHIO DUTY-CYCLE™ MAGNET CONTROLLERS

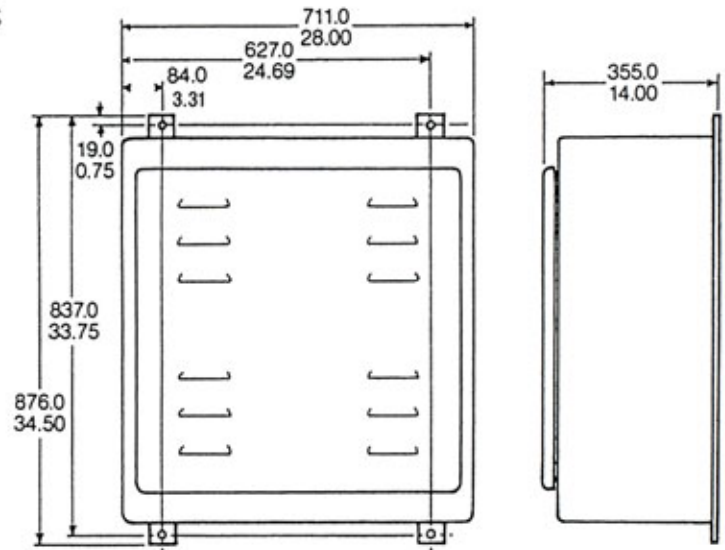
MODEL RD3A

230 VDC. Operating Range: Automatic and Manual 100-200 Amps

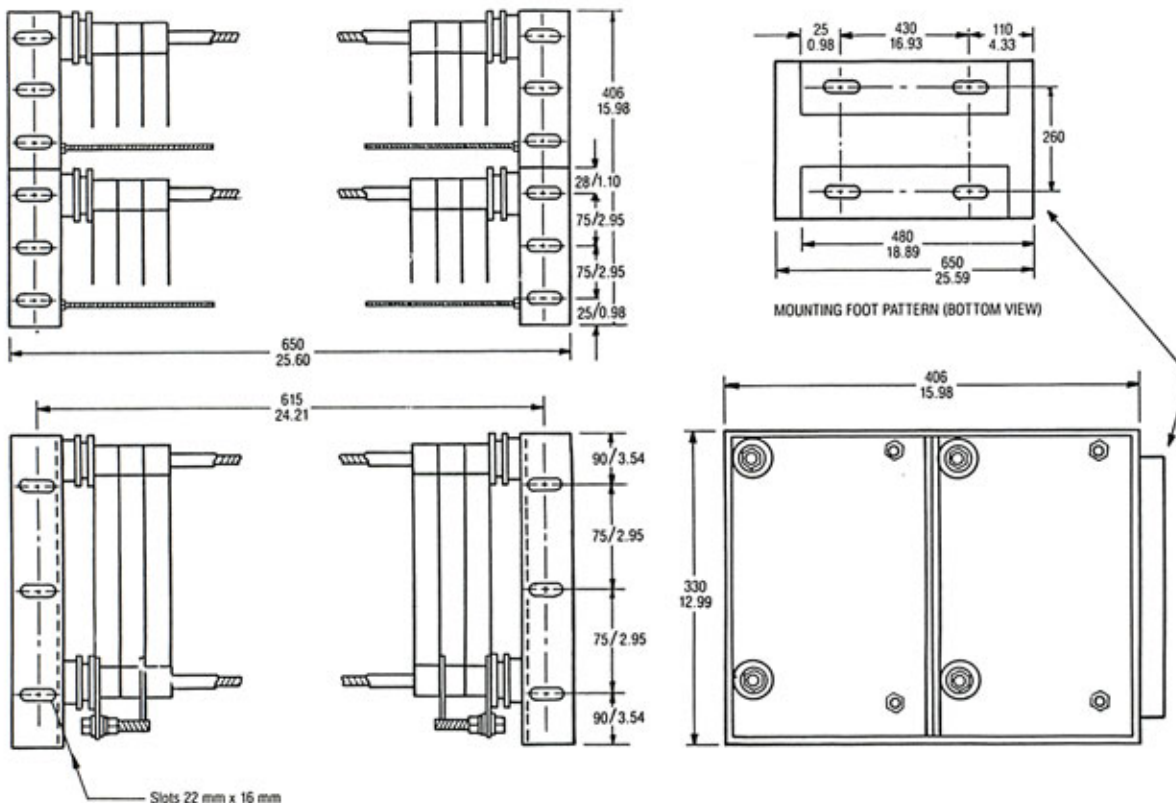
Model RD3A is the highest rated controller in Ohio's line. It features robust contact tips and heavy-duty movable parts. It cuts inventory costs since all parts are interchangeable with larger Ohio Controllers.

- **AUTOMATIC DROP.** One movement of master switch (either pushbutton or lever type standard). Drop circuitry is made to function by a set of adjustable timers. Drop time is varied by adjusting a timer (see Maintenance Manual for instructions).
- **MANUAL DROP.** For precise control of small, low-amperage-draw magnets. If additional control of plates, or dribbling of scrap is desired, move switch from LIFT to OFF. This dissipates magnetism slowly through discharge resistors. When ready to drop load, move switch to DROP, and hold until magnet has cleaned itself. Switch returns to OFF on release.

CAUTION: Mount only in a vertical position. Do not use with magnets requiring over 200 A (46 KW). Keep entire magnet system free from grounds or shorts.



Model RD3A Magnet Controller



Model RD3A Resistor Assembly
(Mounted remote from the Controller)

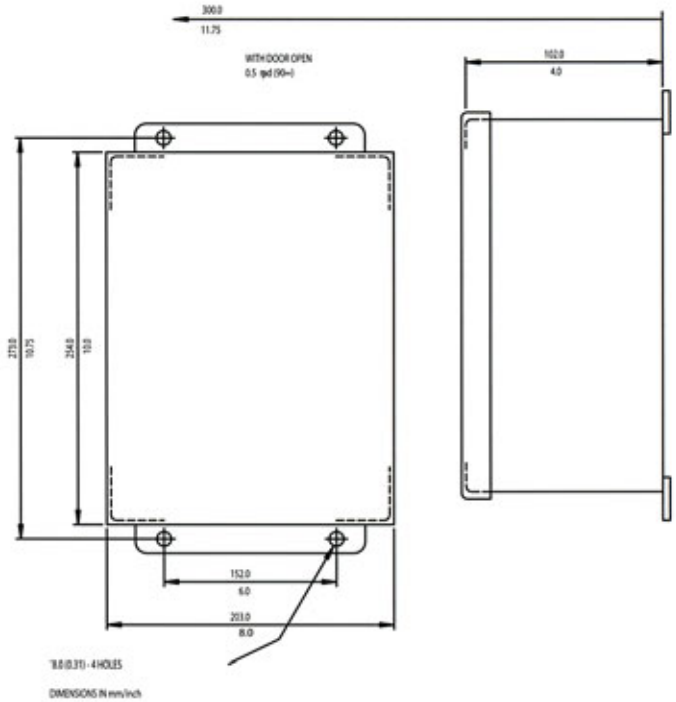
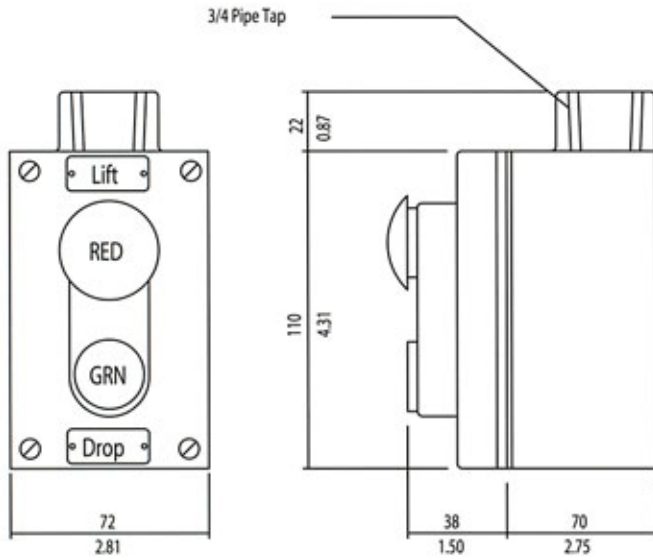


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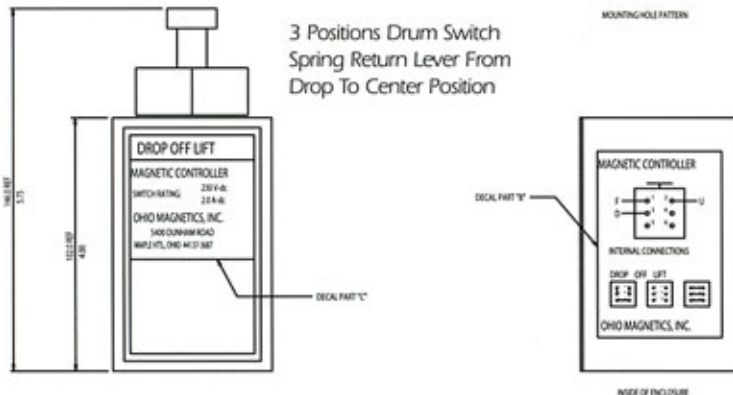
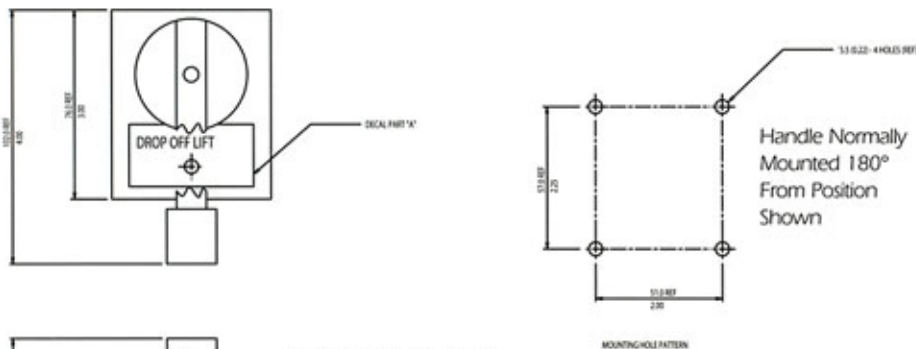
OPERATOR CONTROL SWITCHES

Push Button Type Part No. 091M2266A

Reduced Voltage Package 12 or 24 volts for Cab-Mounted or Joystick-Mounted Lift/Drop Buttons. (Must use 2 N.O. Buttons)



Standard Lever Type Part No. 1300C0150000



250 VDC MAGNET SAFETY DISCONNECT SWITCH

STANDARD FEATURES:

- Manually operated
- Automatic discharge of magnet power
- Mechanical interlock (door must be closed to operate)
- Nema 3R/12 (IP-65) combination enclosure
- Provides operator safety

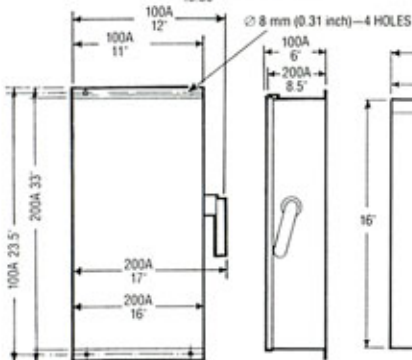
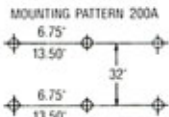
Magnet circuits, which are highly inductive, occasionally require disconnection while the magnet is energized. Standard knife or safety switches are not capable of breaking this highly inductive magnet energy.

Ohio Magnetics' magnet disconnect switch interrupts the magnet circuit arc by using a quick break switch with a permanently connected power diode and power resistor* across negative and positive of the switch output. The power diode directs the discharge current from negative to positive while blocking the normal currents from positive to negative. The power resistor* dissipates the stored energy of the inductive magnet circuit. The switch is polarity sensitive. Input and output power leads must be connected as indicated by markings.

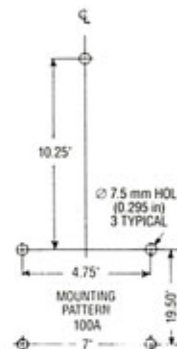
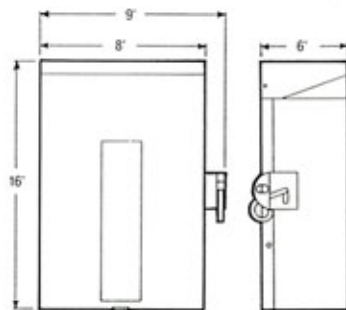
*30 A and 60 A switches do not require power resistor.

DIMENSION INFORMATION

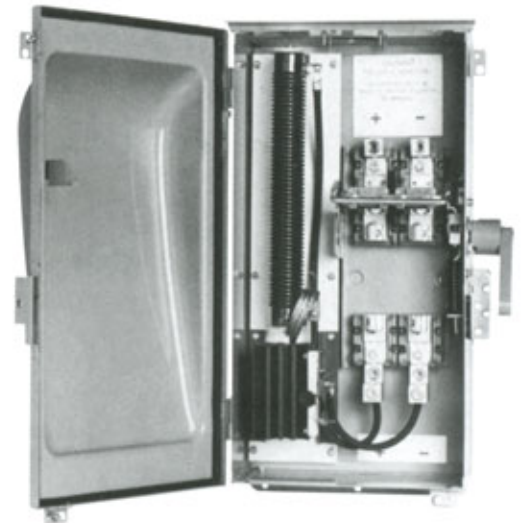
100 AND 200 AMP SWITCHES



60 AMP SWITCH

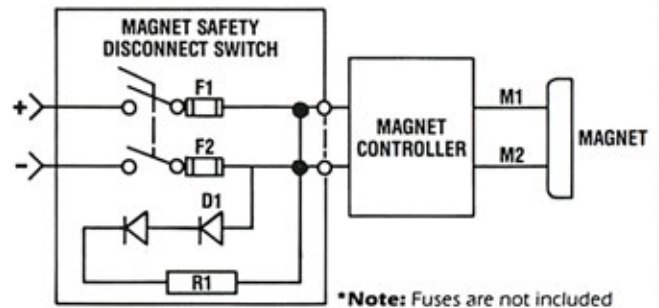


30 AMP SWITCH



Voltage	Amp Rating max.	Part No.
250 VDC	30	018C8500A
250 VDC	60	018C8600A
250 VDC	100	018C8700A
250 VDC	200	018C8800A

ELEMENTARY DIAGRAM*



*Note: Fuses are not included