



MTR-000* INSTALL

READ THESE INSTRUCTIONS BEFORE YOU BEGIN INSTALLATION

INSTALLATION

The **iAIRE** actuators have standardized footprints, wiring configurations and checkout procedures allowing for fast installation resulting in lower installed cost.

MOUNTING

There are several mounting options for the MTR-000* actuators.

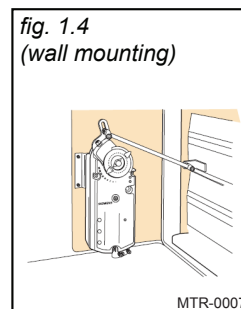
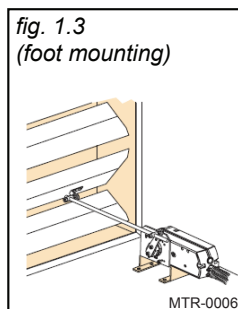
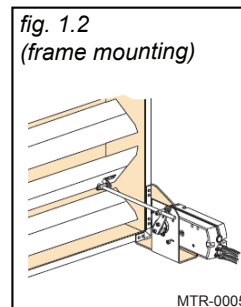
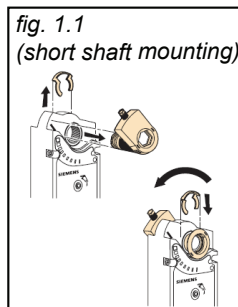
For easy mounting on short shafts without special accessories, the self-centering shaft adapter can be mounted on the backside of the actuator. Each actuator includes an adapter so that the position indicator is still easily viewed [figure 1.1].

The frame mounting kit (MTR-0005) is used when the actuator cannot be directly mounted on the damper shaft due to space limitations [figure 1.2].

Easily replace existing Honeywell, Johnson and Barber-Colman modulation motors using the foot mounting kit (MTR-0006). The foot mounting kit can also be used for placing the actuator in the air stream and linking to the damper blades [figure 1.3].

Other kits provide additional mounting options such as wall mounting (MTR-0007) [figure 1.4].

(For all kits, parts are included, except for the damper rod.)



WIRING

⚠ (Be sure to follow all local and electrical codes. Turn off power to the unit before mounting or making any connections.)

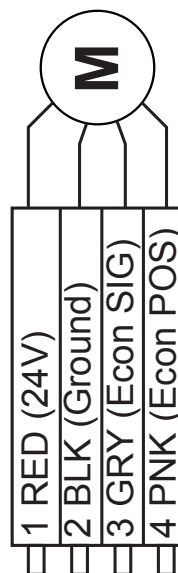
Multiple acutators can be powered off of one transformer (up to ten on one transformer) [figure 2.1].

Actuators can be wired in parallel with one signal driving up to ten actuators. Feedback should not be wired together and can be read off of one of the actuators [figure 2.2].

Actuators can be wired in parallel with one signal driving a bank of up to ten actuators. Multiple transformers can power multiple actuators. Feedback should not be wired together and can be read off of one of the actuators [figure 2.3].

Master and slave actuators can be tandem mounted for 0 to 10 V applications. This effectively doubles the torque produced by one actuator. This unique feature allows the actuators to operate in a wider range of applications [figure 2.4].

With the settings shown in [figure 2.5], two 0 to 10 V actuators can be sequenced such that the first one will operate at 0 to 2 V and the second at 2 to 10 V. This feature allows for specialized applications, such as staging or minimum required airflow.



(continued)

fig. 2.1
(one transformer)

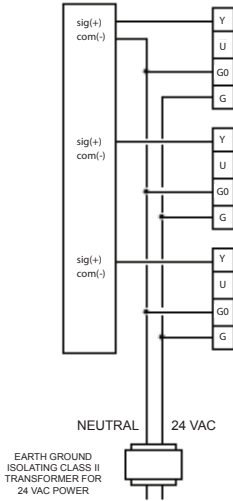


fig. 2.2
(parallel w/ one signal)

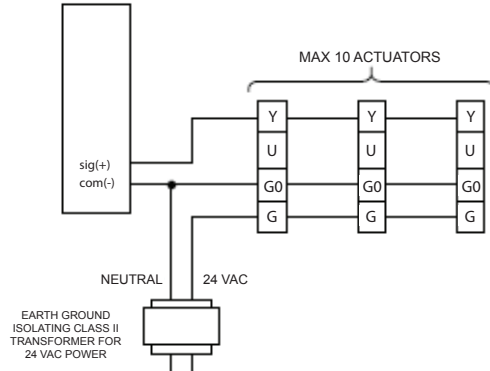


fig. 2.3
(parallel w/ multiple transformers)

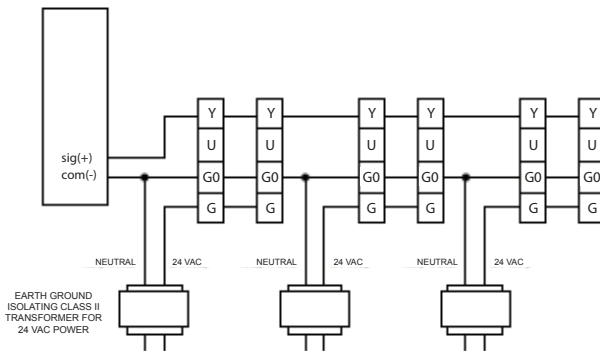


fig. 2.4
(master and slave)

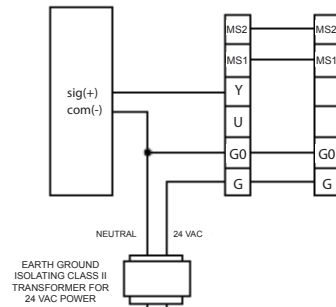


fig. 2.5
(sequencing)

