

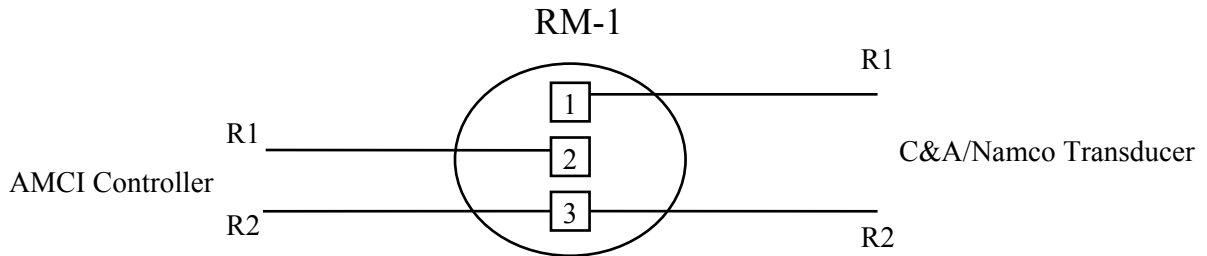
## RM-1 INSTALLATION INSTRUCTIONS

The RM-1 reference module is used to interface C&A/Namco and AMCI products. Depending on how the RM-1 is wired, AMCI controllers can be used with C&A/Namco transducers, or AMCI transducers can be used with C&A/Namco controllers.

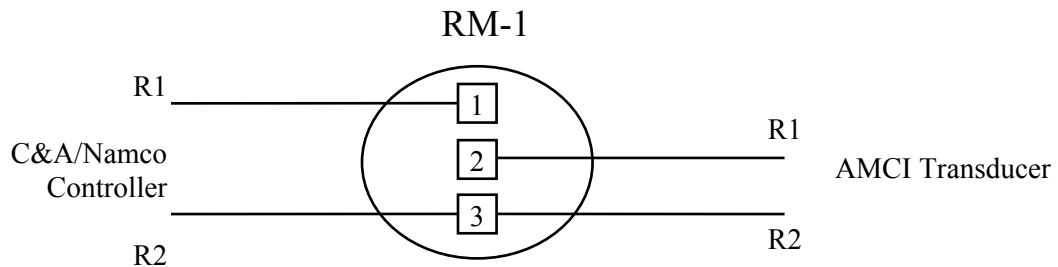
The main difference between AMCI and C&A/Namco resolvers is the transformation ratio. AMCI resolvers have a transformation ratio of 0.95 while C&A/Namco resolvers have a transformation ratio of 0.5. The RM-1 reference module adjusts the reference voltage generated by the controller so that the transducer being used appears to have the expected transformation ratio.

The RM-1 reference module has a 1 inch square or round body and is 1.5 inches high. A 6-32 mounting stud makes it easy to install the Reference Module on an enclosure wall or mounting panel. Note that the Reference Module must be mounted as close to the controller as possible.

The following diagram shows how to wire the RM-1 reference module so that AMCI controllers will work with C&A/Namco transducers.



The following diagram shows how to wire the RM-1 reference module so that AMCI transducers will work with C&A/Namco controllers.



All of the other resolver signals between the transducer and controller should be directly connected to each other.

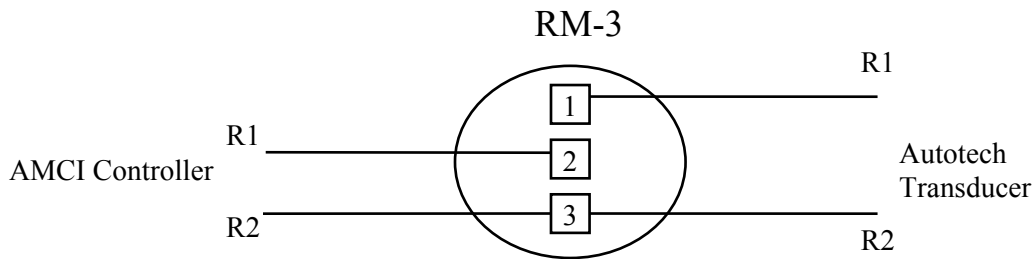
## RM-3 INSTALLATION INSTRUCTIONS

The RM-3 reference module is used to interface Autotech and AMCI products. Depending on how the RM-3 is wired, AMCI controllers can be used with Autotech transducers, or AMCI transducers can be used with Autotech controllers.

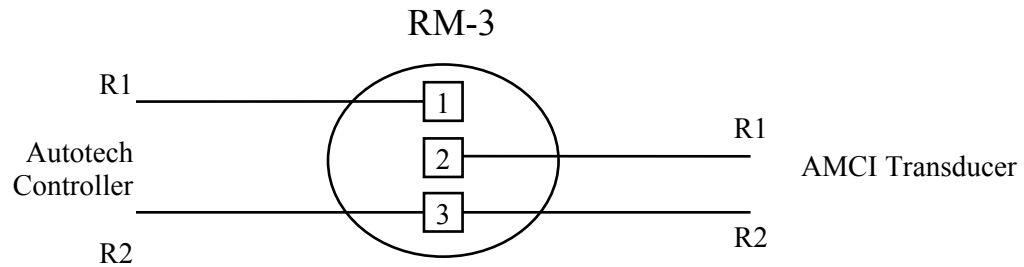
The main difference between AMCI and Autotech resolvers is the transformation ratio. AMCI resolvers have a transformation ratio of 0.95 while Autotech resolvers have a transformation ratio of 1.47. The RM-3 reference module adjusts the reference voltage generated by the controller so that the transducer being used appears to have the expected transformation ratio.

The RM-3 reference module has a 1 inch square or round body and is 1.5 inches high. A 6-32 mounting stud makes it easy to install the Reference Module on an enclosure wall or mounting panel. Note that the Reference Module must be mounted as close to the controller as possible.

The following diagram shows how to wire the RM-3 reference module so that AMCI controllers will work with Autotech transducers.



The following diagram shows how to wire the RM-3 reference module so that AMCI transducers will work with Autotech controllers.



All of the other resolver signals between the transducer and controller should be directly connected to each other.

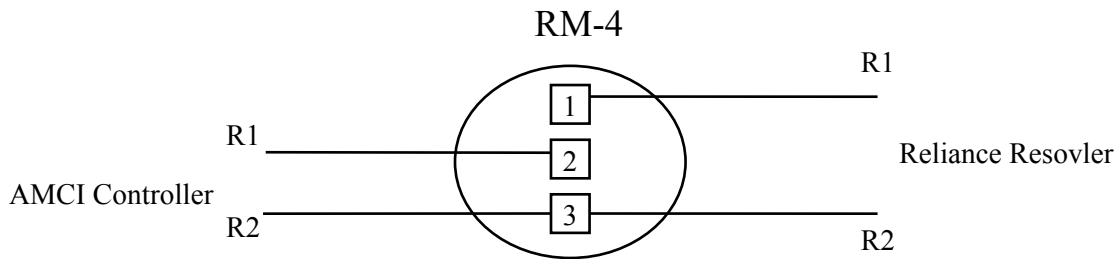
## RM-4 INSTALLATION INSTRUCTIONS

The RM-4 reference module is used to interface Reliance and AMCI products. Depending on how the RM-4 is wired, AMCI controllers can be used with Reliance transducers, or AMCI transducers can be used with Reliance controllers.

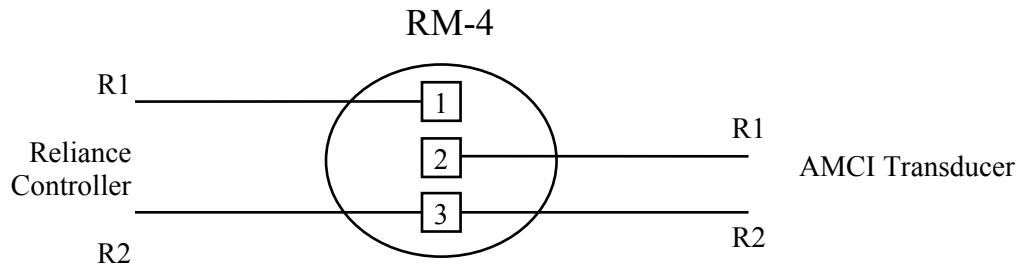
The main difference between AMCI and Reliance resolvers is the transformation ratio. AMCI resolvers have a transformation ratio of 0.95 while Reliance resolvers have a transformation ratio of 0.45. The RM-4 reference module adjusts the reference voltage generated by the controller so that the transducer being used appears to have the expected transformation ratio.

The RM-4 reference module has a 1 inch square or round body and is 1.5 inches high. A 6-32 mounting stud makes it easy to install the Reference Module on an enclosure wall or mounting panel. Note that the Reference Module must be mounted as close to the controller as possible.

The following diagram shows how to wire the RM-4 reference module so that AMCI controllers will work with Reliance transducers.



The following diagram shows how to wire the RM-4 reference module so that AMCI transducers will work with Reliance controllers.



All of the other resolver signals between the transducer and controller should be directly connected to each other.

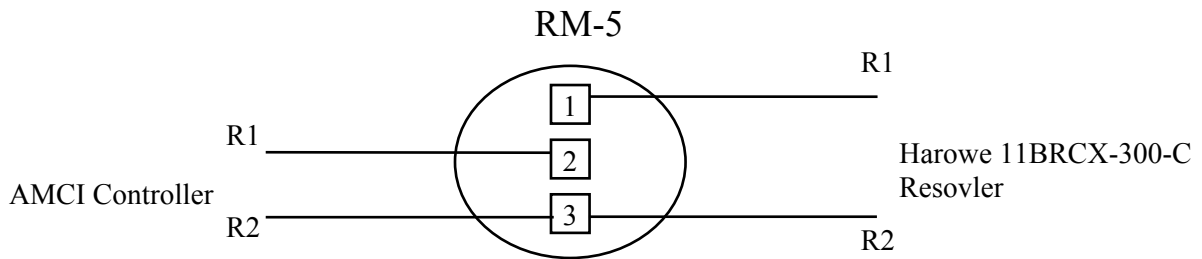
## RM-5 INSTALLATION INSTRUCTIONS

The RM-5 reference module is used to interface Harowe 11BRCX-300-C or equivalent resolvers and AMCI controllers.

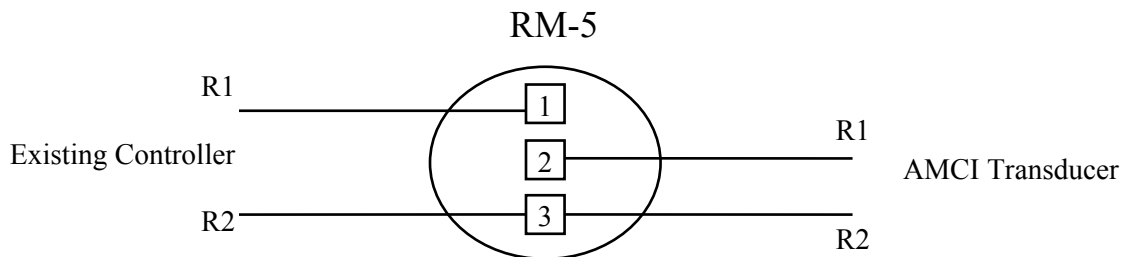
The main difference between AMCI and Harowe 11BRCX-300-C resolvers is the transformation ratio. AMCI resolvers have a transformation ratio of 0.95 while Harowe 11BRCX-300-C resolvers have a transformation ratio of 0.45. The RM-5 reference module increases the reference voltage generated by the controller so that the resovler being used appears to have the expected transformation ratio of 0.95.

The RM-5 reference module has a 1 inch square or round body and is 1.5 inches high. A 6-32 mounting stud makes it easy to install the Reference Module on an enclosure wall or mounting panel. Note that the Reference Module must be mounted as close to the controller as possible.

The following diagram shows how to wire the RM-5 reference module so that AMCI controllers will work with Harowe 11BRCX-300-C transducers.



The following diagram shows how to wire the RM-5 reference module so that AMCI transducers will work with an existing controller that was previously connected to an 11BRCX-300-C or equivalent resolver.



All of the other resolver signals between the transducer and controller should be directly connected to each other.