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TURCK

Devicent Encoder Replacement

5860 to RM-89 Series

Manual

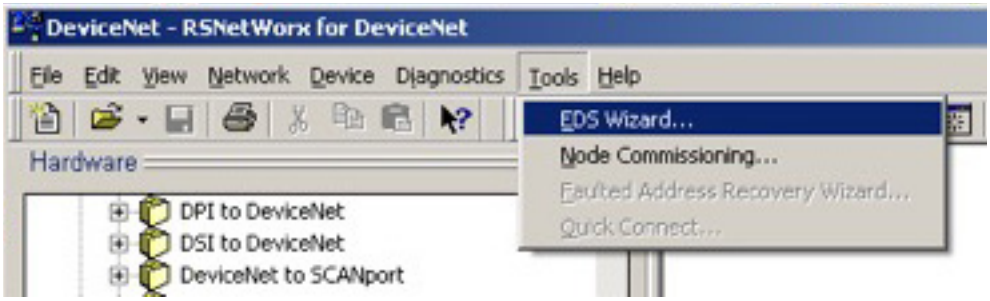
Swapping Kuebler 5860 with RM-89 Device Net Resolver

The following section explains how to replace Kuebler 5860 DeviceNet encoder with RM-89 Resolver. The only common denominator for both devices is the position measurement, which is provided as 32-bit value back to PLC. Other features are or may be different such as:

- IO data size
- Supported parameters
- EDS files

The encoder's replacement and scanner's reconfiguration has to be done online in following steps:

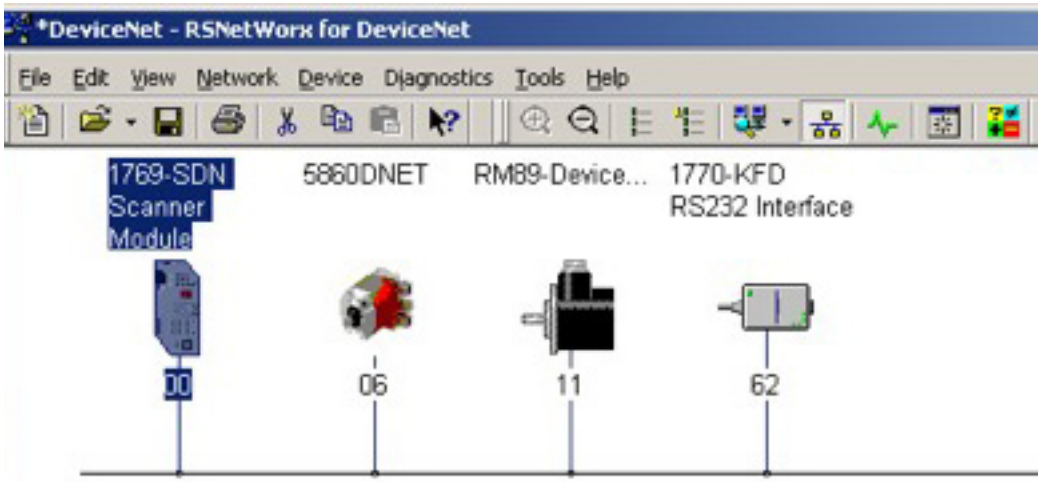
1 Use RSNetworx Tool drop down menu to install RM-89 EDS file:



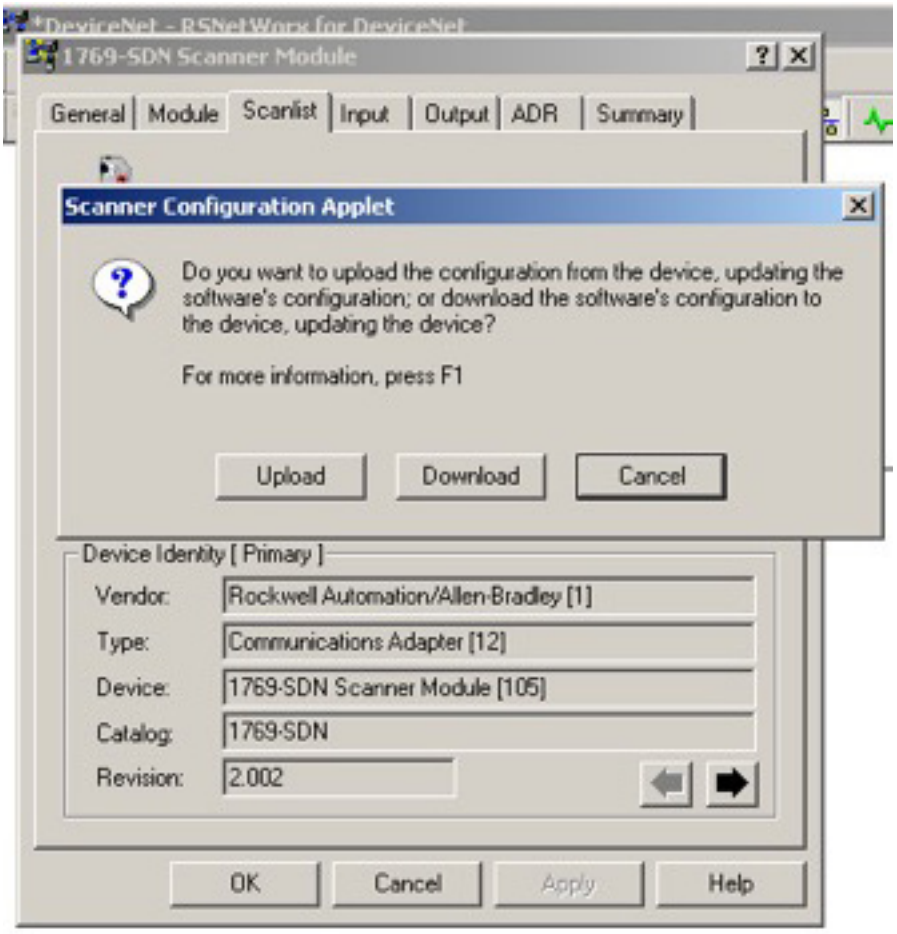
Follow instructions:

2 Go on-line and upload network content:

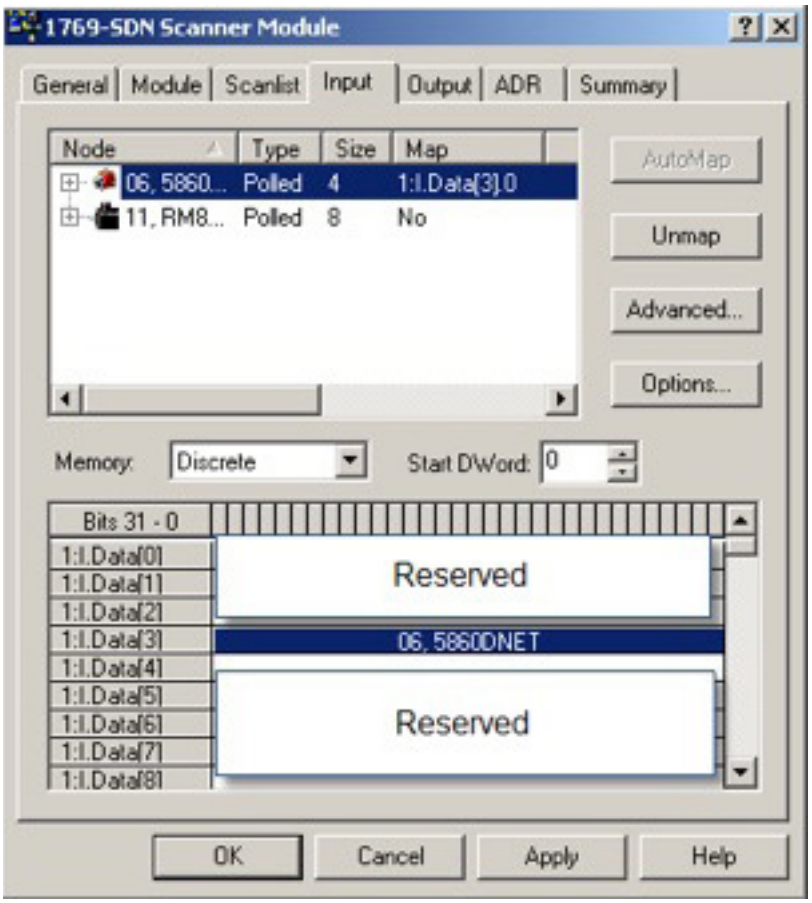
Kuebler 5860 encoder is in the scan-list and will be replaced at the same address with the RM-89:



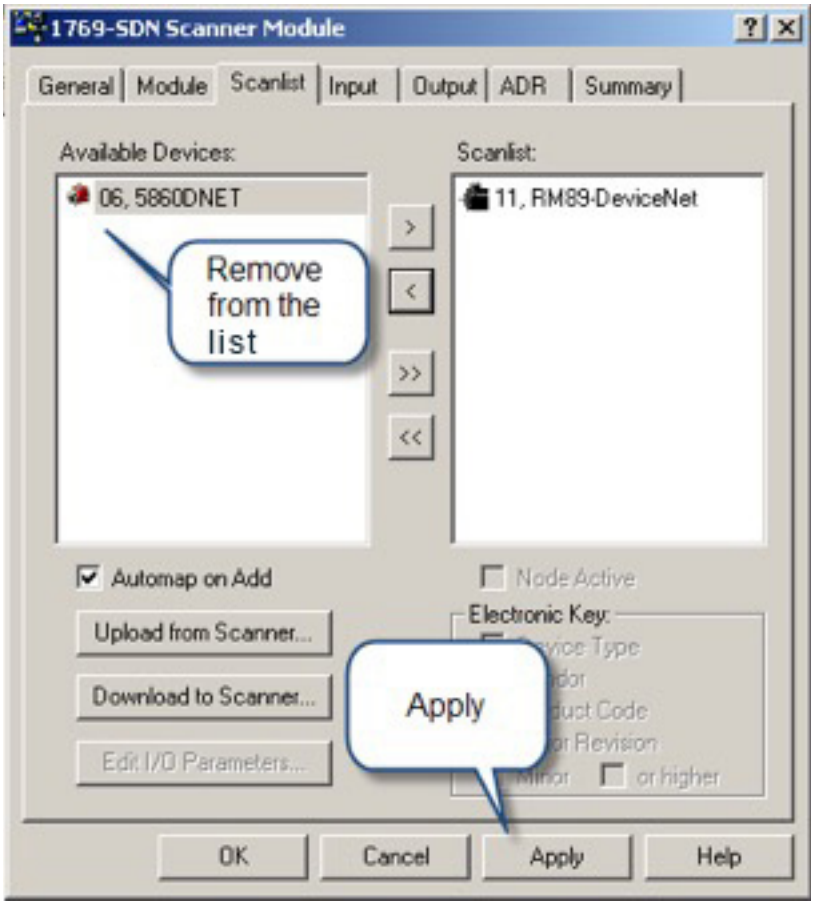
3 Upload scan-list from the scanner:



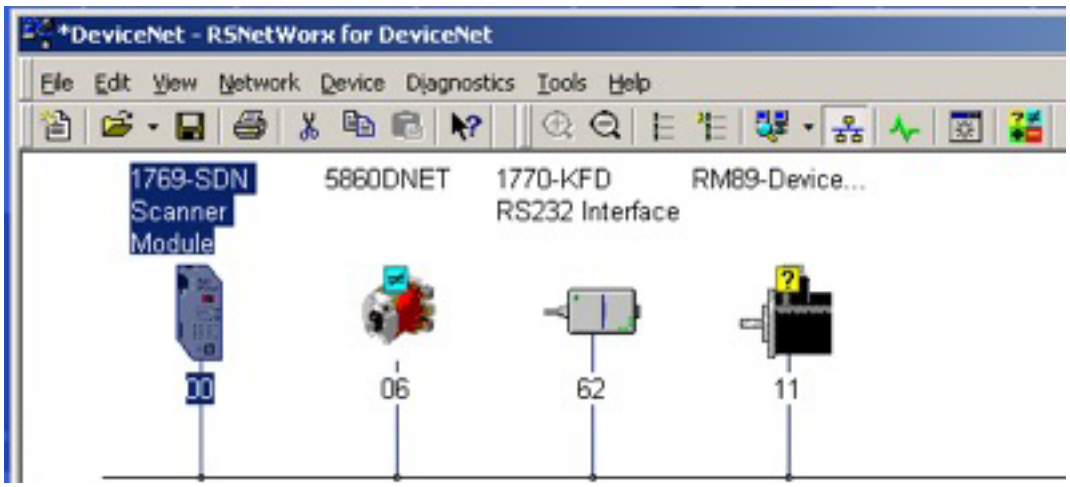
4 Note the that offset where the Kuebler 5860 encoder has been mapped is "1:I.Data[3]" Other memory locations are reserved for other nodes:



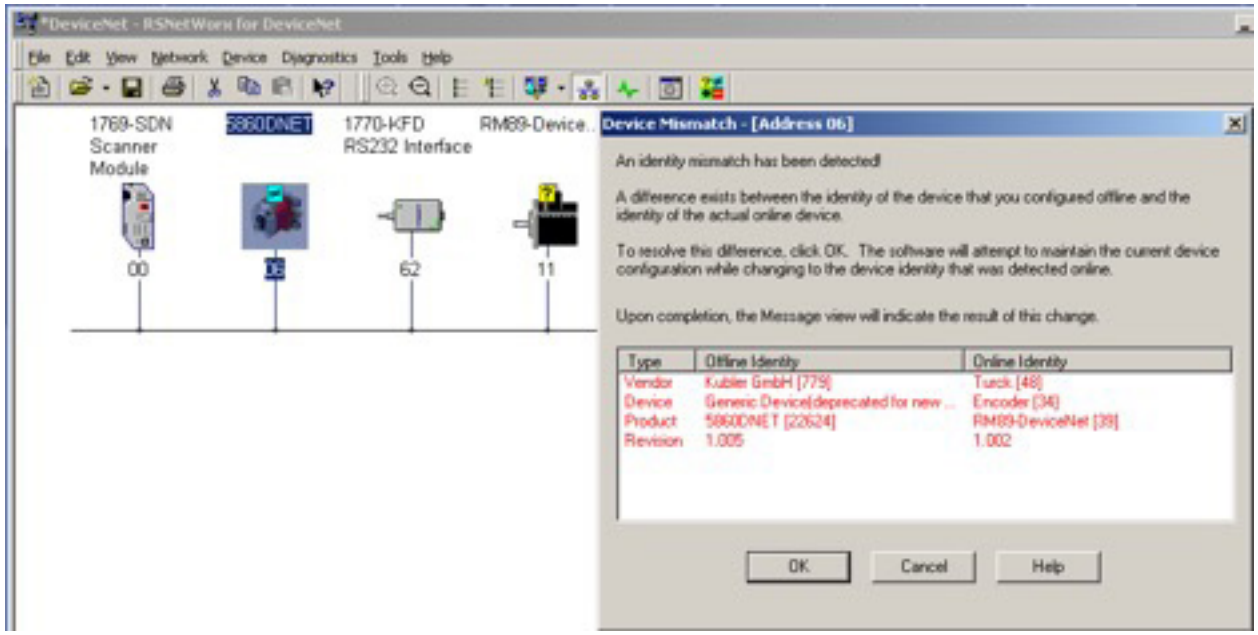
5 Remove Kuebler 5860 encoder from the scanlist, click "**Apply**" and download configuration to the scanner:



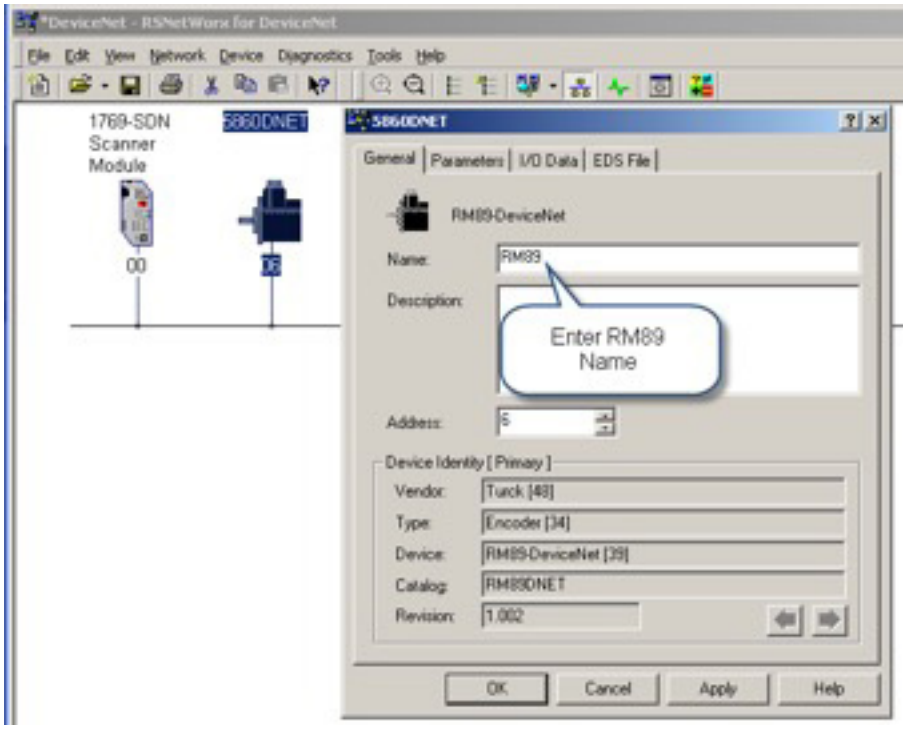
6 Remove the Kuebler 5860 encoder from the network; set address of the RM-89 to 6 and cycle power to the RM-89. Browse network and click on "≠":



7 Click **OK** to resolve mismatch:

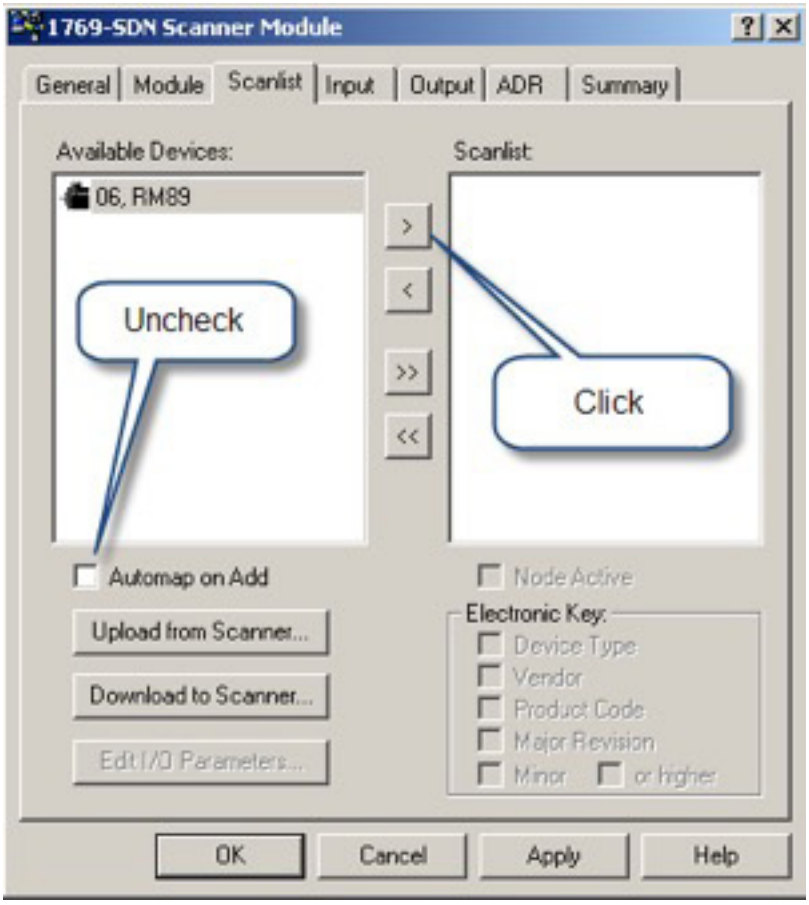


8 Enter into Name "RM89" , click "**Apply**" and "**OK**"

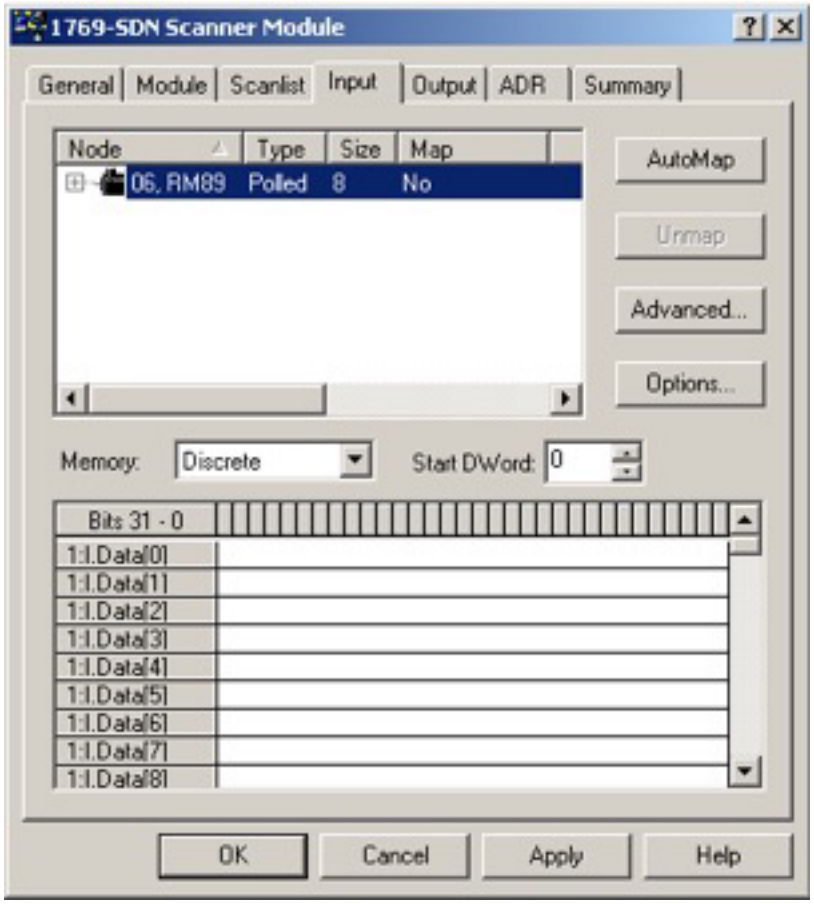


9 Click on the scanner and upload scanlist;

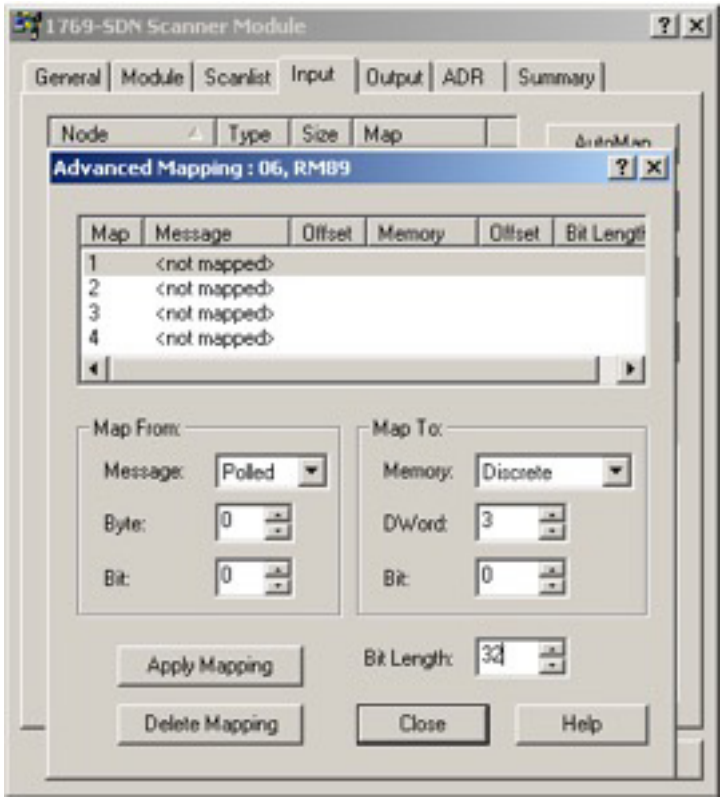
a. Uncheck "**Automap on Add**"
b. Click > to enter RM89 into scanlist
c. Click **Apply**



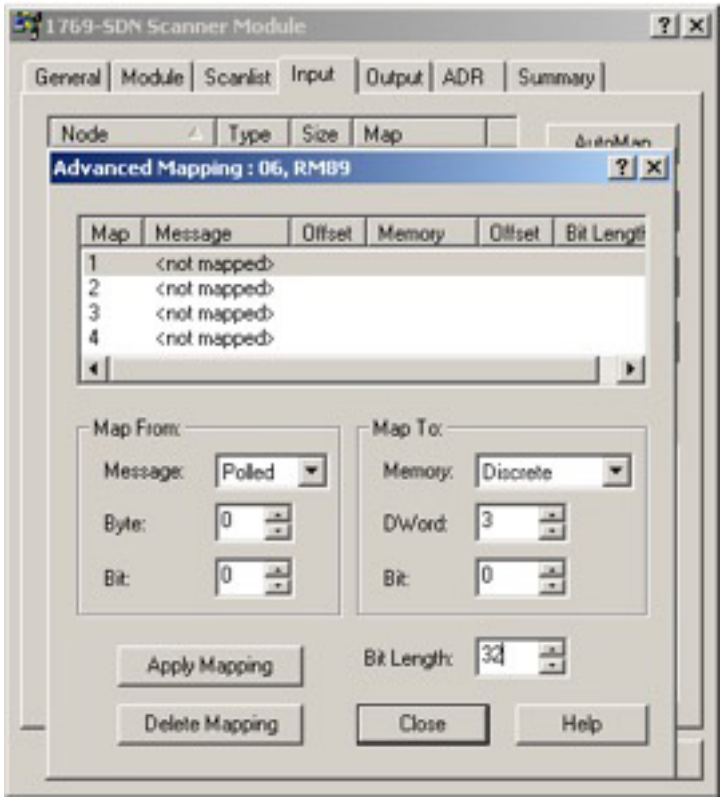
10 Click on **Input tab** and **Advanced…**



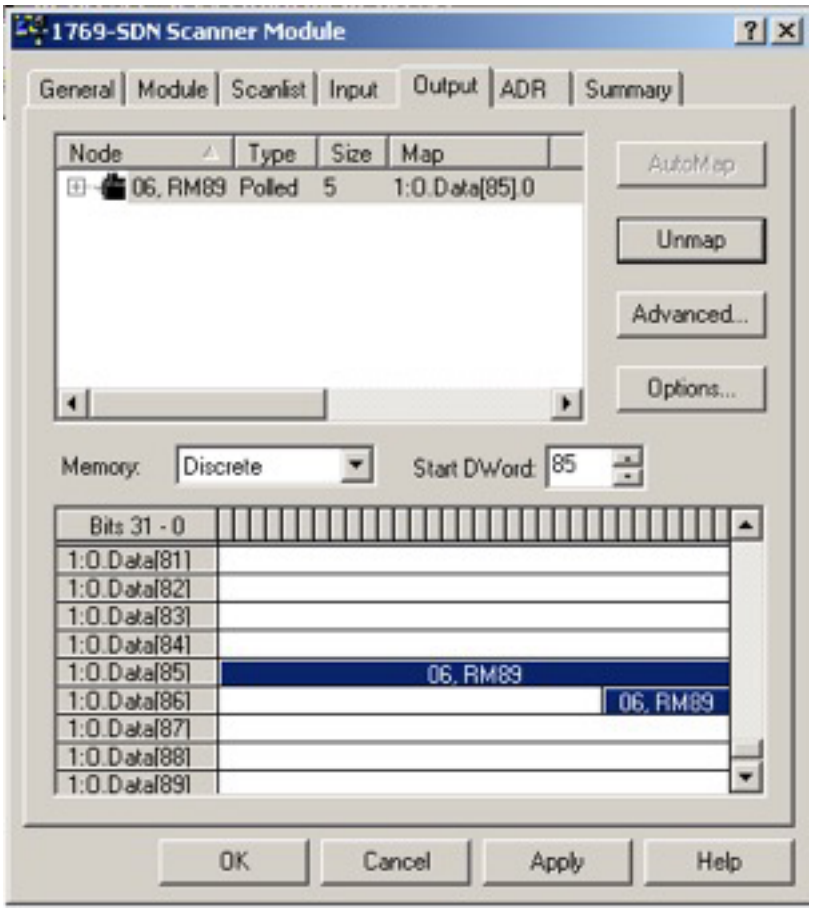
11 Advanced mapping is done exactly as follows:



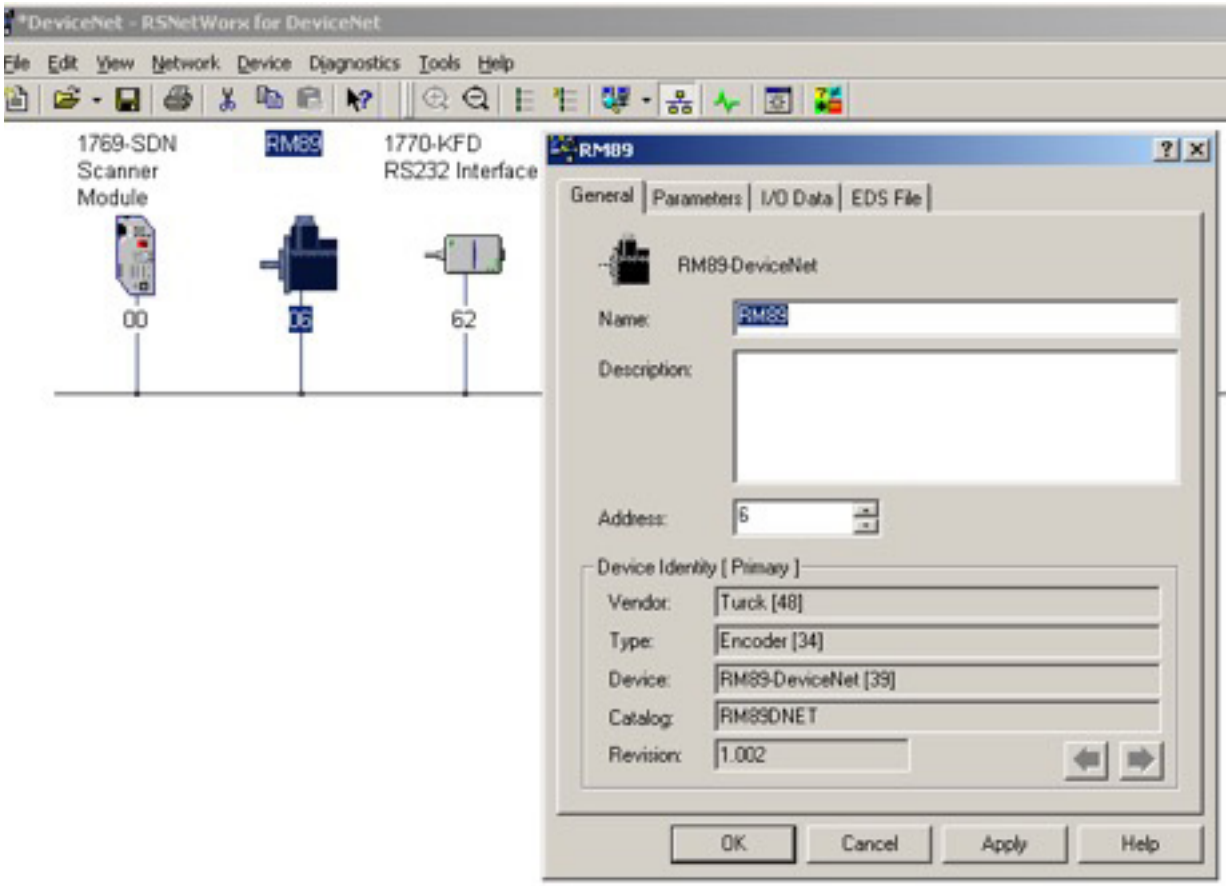
First 32 bits will be mapped to the scanlist at offset "1:I.Data[3]". Click **Apply** and **Close**:



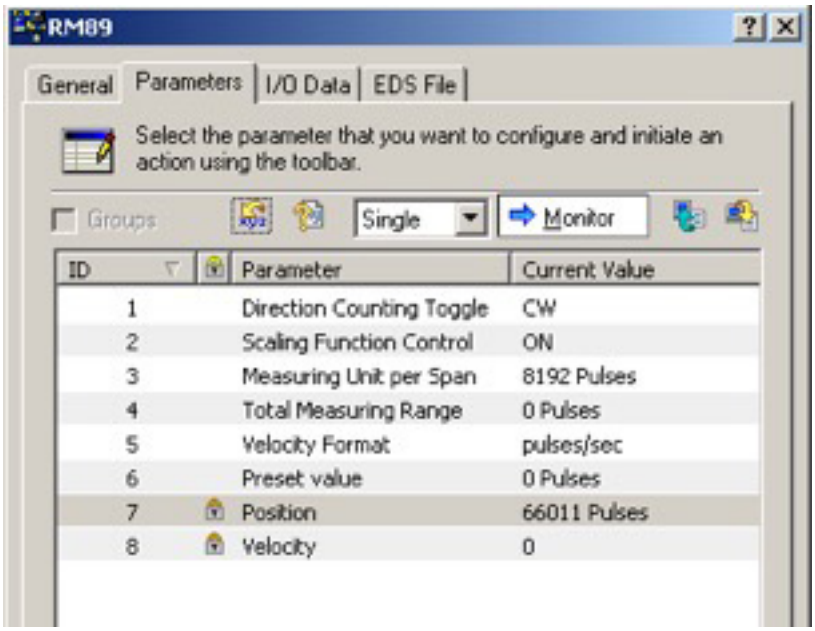
12 Map RM-89 outputs to unused portion of the IO data map; click **apply** and **download to the scanner:**



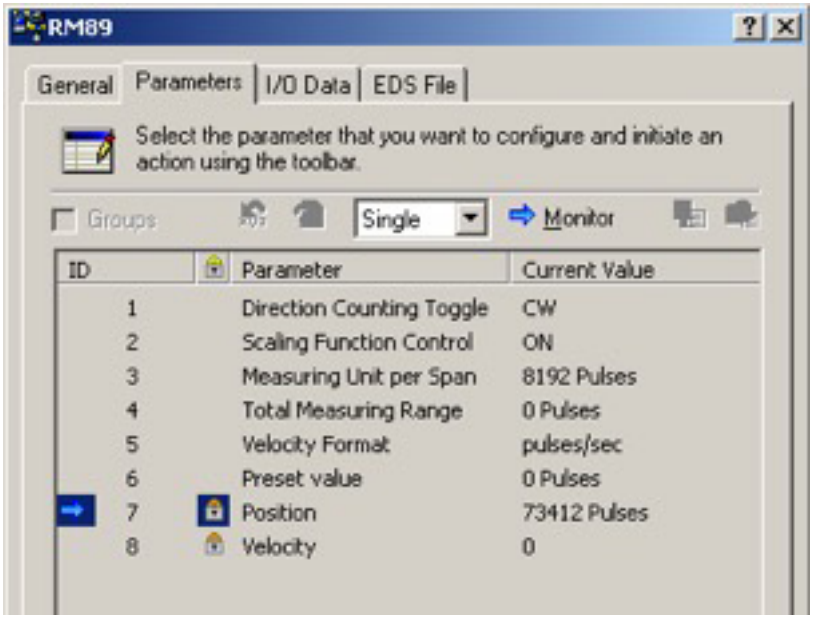
13 Double-click on **RM89** and upload parameters; General tab shows device identity:



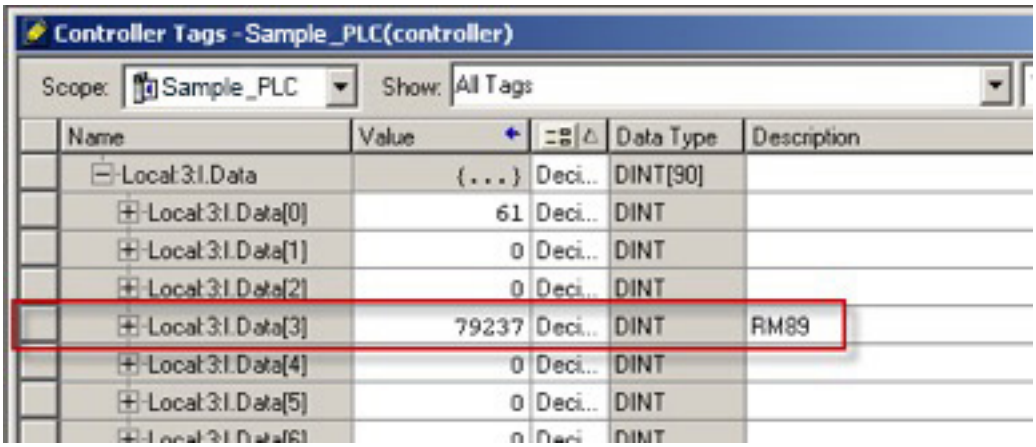
14 Click on **Parameters**, highlight "**Position**" parameter:



15 Click on **Monitor,** turn shaft and monitor position:



16 Check **PLC** reading:



17 Setup other RM-89 parameters using RM-89 User Manual

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