

2-22-90

Placing the KM210A against the $\frac{1}{2}$ " diameter threaded rod and a bias magnet behind it we got a good AC coupled wave when moving the KM210A. The magnet was rotated for a centering of the DC coupled meter but was not too critical. The signal would then be counted up & down with directional info from the motor control cct.

However, direct contact is not possible in service. The difficulty is that the sensor cannot separate threads when the sensor is about twice the thread pitch away from the rod. Therefore, the sensor would have to be accurately located within ± 125 " from the threaded rod.

Also the rod would have to be steel (rust!) and would have to be plastic coated. This would reduce our clearance a bit too. See magnetic linear too.

Alternately, an ~~linear~~ angular, rotary sensor could be operated by the gear rack with up/down counter controlled by the motor drive or with quadrature sensors. See ~~the~~ P 32 from the magazine following.