Features of CP-16U & Characteristics Data

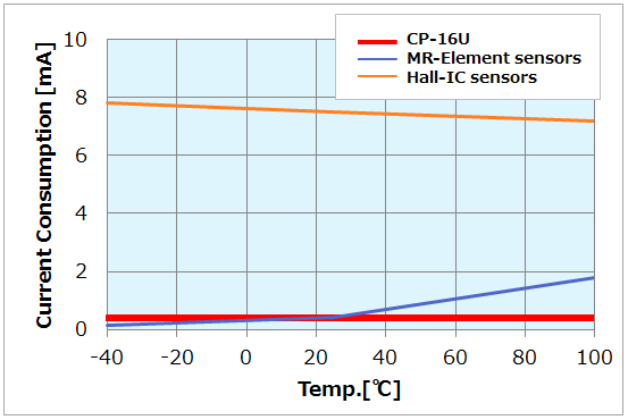
We introduce you about many features of CP-16U in this paper.

Feature (1) Ultra Low Current Consumption

・Current consumption of typical Hall-IC sensors is around 10mA.
・Typical MR-Element sensors change resistance value by temperature. When it is in high temperature, resistance value decrease and current consumption increase.

・TMR Element is high resistance value so that CP-16U keeps low current consumption even if it is installed amplification circuit

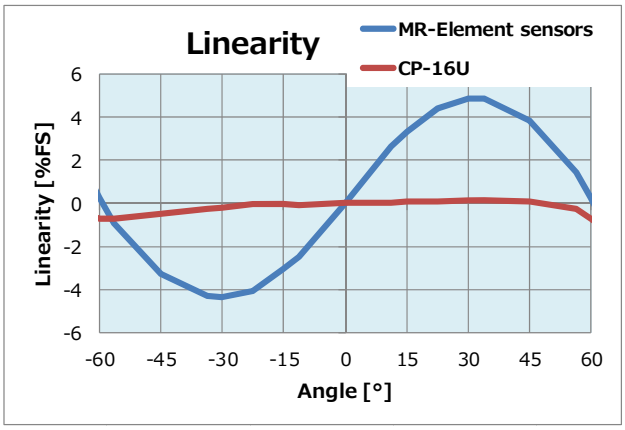
On the other hand, resistance change is very small by temperature, so that it keeps low current consumption from low to high temperature condition.



・Typical low current consumption type potentiometers are high resistance value so load resistance (input impedance of user's circuit) must be millions ohm. CP-16U's load resistance is only 100kohm min. so that it would be easy to design circuit.

Feature (2) Linear output at wide angle

・Output of typical MR-Element sensors is Sin curve.
So that linearity of wide angle would become worse.
CP-16U has linear output for wide angle by devised magnetic circuit



Feature (3) Fast Response / High Resolution

・Response time of typical Hall-IC sensors is only thousands Hz. CP-16U meets response time more than 100kHz by using analog circuit.
・Resolution of typical Hall-IC sensor is only 12bits. Resolution of CP-16U is theoretically infinitesimal because of analog circuit type.

Contact address;
MIDORI PRECISIONS CO.,LTD.
3-2-8, Shinmeidai, Hamura-shi,
Tokyo 205-0023, JAPAN
Tel : +81-554-5650
Fax : +81-551-5950
E-mail : overseas@midori.co.jp