



MC Scale is consisted of Scale, Head and Detector. Magnetic graduations magnetized on Scale at an interval of 20mm pitch are read out by the Head at Operation distance 10mm (7mm to 12mm). Head generates Sinusoidal voltage. The signal are interpolated 1/10 1/20 or 1/100 by Detector to generate AB phase pulse signal. The Operation distance between Head and Scale is so wide, therefore MC scale is widely applied to construction machineries, material handling equipments, industrial machines, etc.

SPECIFICATIONS :

Operation Distance	10mm (7mm to 12mm)
Effective Length	Unlimited (50m Max. Scale can be connected)
Resolution	2mm, 1mm, 0.2mm
X4 by counter (user side)	0.5mm, 0.25mm, 0.05mm
Accuracy	$\pm(1+0.0005L)\text{mm}$ L=Effective length (unit: meter)
Supply voltage	+12 VDC $\pm 10\%$ or +16 to +30 VDC
Output	Transistor Open Drain Applicable voltage 30V max. Sink current 100mA max.
Output mode	AB phase
Response time	50m/s max.
Operation Temperature	-20°C to 60°C (Head) -20°C to 70°C (Scale) -10°C to 60°C (Detector)