

OVERVIEW

The MS Series magnetic pickup consists of magnet, pole piece and detector coil as shown in Fig.1.

When a magnetic material crosses the pole piece in close approximation, the magnetic flux changes, thus causing the detector coil to generate an electric current. If, therefore, this magnetic pickup is installed close to a gear, it produces an electric signal with a frequency proportional to the revolution of the gear.

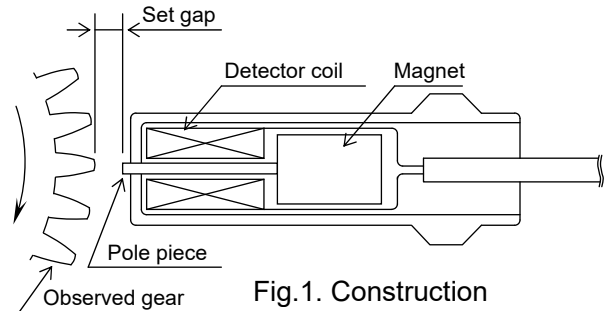


Fig.1. Construction

SPECIFICATIONS

Model	MS-1601	MS-1602	MS-2401	MS-2402
DC Resistance	95 to 115Ω at 25°C(77°F)	95 to 115Ω at 25°C(77°F)	220 to 260Ω at 25°C(77°F)	220 to 260Ω at 25°C(77°F)
Inductance	35mH (typical)	35mH (typical)	115mH (typical)	115mH (typical)
Observed gear type	Involute gear module 1 to 4 (D.P. 6 to 25 REF.)	Involute gear module 1 to 4 (D.P. 6 to 25 REF.)	Involute gear module 3 to 10 (D.P. 2.5 to 8.5 REF.)	Involute gear module 3 to 10 (D.P. 2.5 to 8.5 REF.)
Operating temperature	-10 to +120°C (14 to 248°F REF.)	-10 to +120°C (14 to 248°F REF.)	-10 to +120°C (14 to 248°F REF.)	-10 to +120°C (14 to 248°F REF.)
Vibration resistance	196m/s ² (20g REF.)	196m/s ² (20g REF.)	196m/s ² (20g REF.)	196m/s ² (20g REF.)
Threaded size	M16×1	M16×1	M24×1.5	M24×1.5
Cable or connector	With integral cable (2m (6.56ft REF.) Fluoro resin 2-wire twisted pair shielded cable)	With connector*1 D/MS3102E10SL-3P D/MS3108E10SL-3S	With integral cable (2m (6.56ft REF.) Fluoro resin 2-wire twisted pair shielded cable)	With connector*1 D/MS3102E10SL-3P D/MS3108E10SL-3S
Mass	Approx.160g (0.35lb REF.)	Approx.110g (0.24lb REF.)	Approx.380g (0.84lb REF.)	Approx.300g (0.66lb REF.)

*1 The upper side is for a socket connector and the lower side is for an L-shaped plug.