



Highway Crossing Bell - Electronic

The electronic highway crossing bell is unique in that its striking method is electrically contactless, and mechanically it is as simple as possible, with only one moving part. These features permit a considerable reduction in manufacturing cost with greatly increased reliability.

Striker mechanism

The striker is a solid octagonal stainless steel plunger which is alternately raised by pulses fed to a solenoid coil and allowed to fall against the rim of the gong. Immediately following contact with the gong, the solenoid raises the striker, avoiding prolonged contact and damping of gong resonance. The cycle is repeated approximately 3.7 times per second.

External appearance and construction are very similar to previous models. The steel gong is 305mm (12in) in diameter and the body is a one-piece silicon aluminium casting.

Maintenance eliminated

The solenoid coil is impregnated for protection against moisture and capped to prevent dust entering the plunger tube. The electronic driving unit is completely encapsulated and protected against voltage surges up to 4000 volts.

All components are enclosed by the gong and its overhanging shroud, protecting them from rainfall, and the gong is coated with a high grade industrial paint.

Mounting and installation

The cast body fixes to a 140mm (5.5in) OD tubular mast and can be adapted to 114mm (4.5in) OD by means of an adaptor sleeve. Terminal access is obtained by removing the gong.

Ordering

Order by piece number

Piece Number	Description	Drawing/Reference	
		Group	Sheet
M24820	Electronic highway crossing bell 8-1 5 volts DC (smoothed or unsmoothed) 10-24 volt version	EM186	5
—	Adaptor sleeve for 114mm mast	AM5005	7

