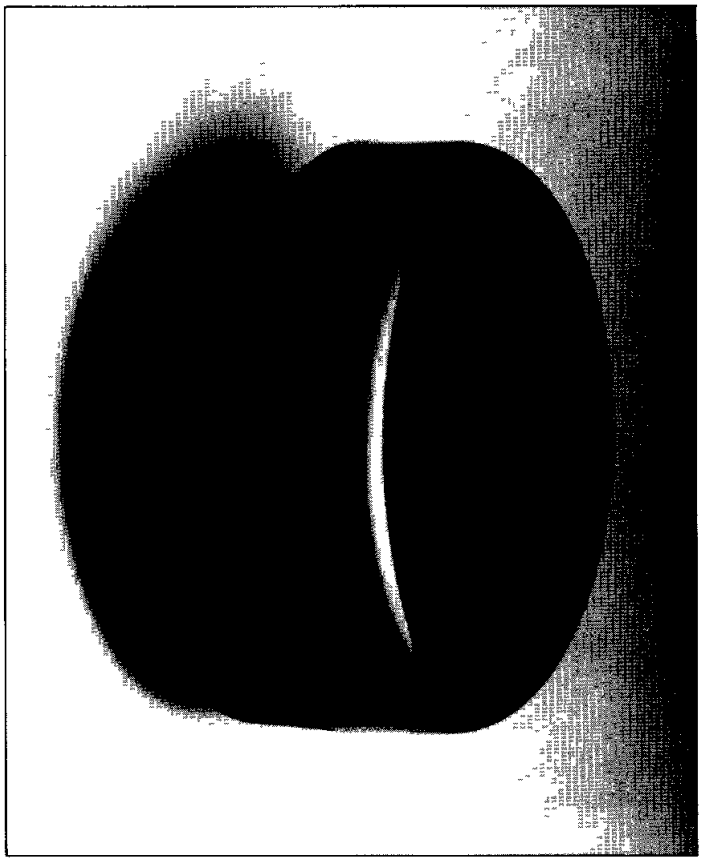
ELECTRONIC BELL

GENERAL SPECIFICATION



This versatile electronic bell breaks completely new ground in bell technology It offers advanced levels of sound quality, reliability and ease of installation, while also consuming less electrical current than other solenoid bells

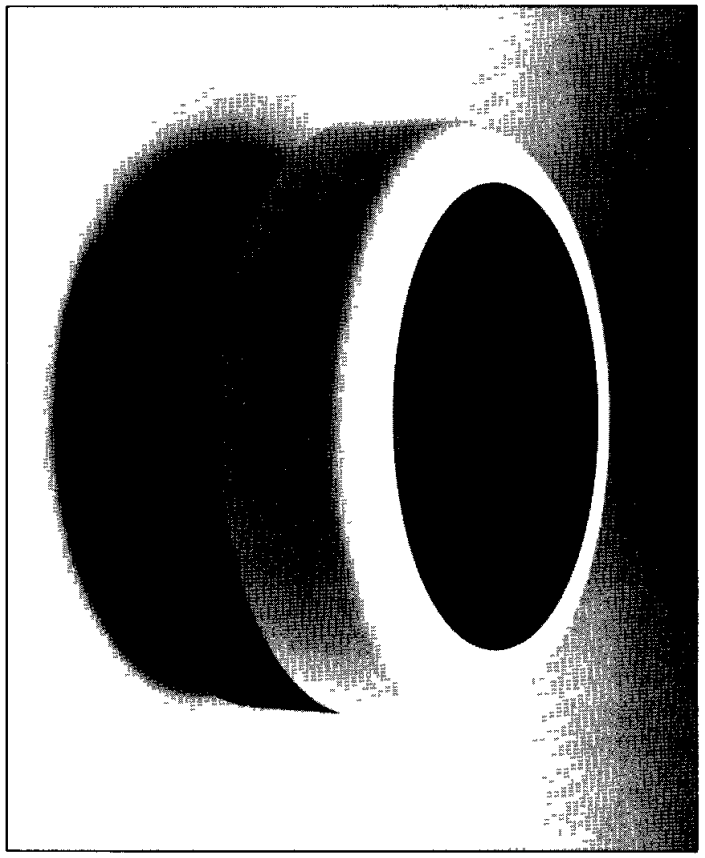
The new bell also embodies our continuing commitment to the most rigorous standards of quality control and assurance

The movements are rated at nominal 12V dc, 24V dc and 220/240V ac (50/60Hz) Applied as security, fire or general purpose alarm for both interior or exterior use, this new electronic bell leads the field both in terms of its versatility and advanced technology

Features at a glance

- a bold, incisive ring
- exceptional reliability
- long life
- low current consumption
- easy to install
- no maintenance required
- tough polycarbonate base
- resistance to vandal attack
- a surprisingly low price

DESIGN



The electronic bell is available in three types

- The 12V dc version for use as a security alarm, both internally and externally when incorporated into a conventional bell box Available in grey only
- The 24V dc version is designed for use as a fire alarm and is available in red only A weather resistant version is available for external use
- The 220/240V ac version is designed for use as an extremely effective signalling unit for industrial environments and is available in either grey or red A weather resistant version is available for use externally

SYSTEM SPECIFICATION

BS5839 part 1 specifies the sound generation levels for fire detection and alarm systems as follows

- not less than 65dB(A) in all accessible parts of a building,
- dB(A) above any noise likely to persist for more than 30 seconds,
- 75dB(A) at all bed heads to arouse sleeping persons, with all doors shut

An installation must include at least two alarm sounder circuits, using the same type of sounders throughout protected areas

For intruder alarm systems the requirements for external audible alarms are specified by BS 4737

A minimum average sound level around the sounder, when assembled into a protective housing, of 70dB(A) is required with a minimum of 65dB(A) in any one direction (BS 4737 Appendix A details the test procedure)

External alarms should be mounted to avoid accidental damage and to discourage wilful interference

ELECTRONIC BELL

INSTALLATION

Mounted on ceiling or wall, with flush or surface wiring, the electronic bell is designed for maximum ease of installation, requiring no final adjustment on site

A simple clip holds the movement to the base, and a twist-lock mechanism holds the gong in position The tough, vandal-resistant fixing is completed by the rigid snap-fit label which encloses the unit

STANDARDS

The two models of elctronic bell comply with major national and international standards including BS3456 (Household and similar appliances) and IEE Wiring Regulations — 15th edition

OPERATION

The microcircuit which controls the electronic bell offers two major benefits enhanced sound characteristics plus greatly reduced current consumption

The unit's outstanding reliability — we know of no other bell in this class which can match it — is achieved by a combination of sophisticated electronic switching and an extremely advanced design of solenoid movement

The new design's electronic movement, avoiding the need for mechanical contacts, prolongs the life of the bell and greatly enhances reliability

Brilliant sound clarity and volume is achieved by current to the coil drawing the striker away from the gong and, when released, allowing it to strike the gong in free flight Current through the coil is switched electronically and continuously monitored by a feedback loop which optimises the timing

DIMENSIONS

■ Gong diameter	155mm
■ Base diameter	150mm
■ Overall depth	85mm

WEIGHTS (APPROXIMATE)

■ 12V dc	1 00kg
■ 24V dc	1 00kg
■ 24V dc weather resistant	1 10kg
■ 240V ac	1 20kg
■ 240V ac weather resistant	1 25kg

TECHNICAL

	12V dc	24V dc	220/240V ac
Nominal voltage	12V dc	24V dc	220/240V ac
Supply voltage range	9 – 15V	18 – 30V	200 – 250V, 50 – 60Hz
Current at nominal voltage	60mA	30mA	30mA
Minimum sound output	96dB(A) at 1m, 84dB(A) in accordance with BS4737	96dB(A) at 1m	96dB(A) at 1m
Ambient temperature range	– 10 to + 55°C	– 10 to + 55°C	– 10 to + 55°C
Resistance to dust and moisture	IP40	IP55 (weather resistant model)	IP55 (weather resistant model)
Mean time to failure		Over 500 hours' continuous operation	
Colour	grey	red	grey or red

SMS
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a **Pillar electrical** company

ORDERING CODES

74431 – 66NM	12V dc	grey gong
74430 – 88NM	24V dc interior use	red gong
74432 – 88NM	24V dc exterior use	red gong
74330 – 50NM	240V ac interior use	red gong
74331 – 50NM	240V ac interior use	grey gong
74332 – 50NM	240V ac exterior use	red gong
74333 – 50NM	240V ac exterior use	grey gong

Bulk quantities of all products can be supplied in personalised livery — please ask for details The electronic bell is made and tested under a manufacturing and quality assurance system registered to meet BS5750, Part 2

EBELL/5000/1/90