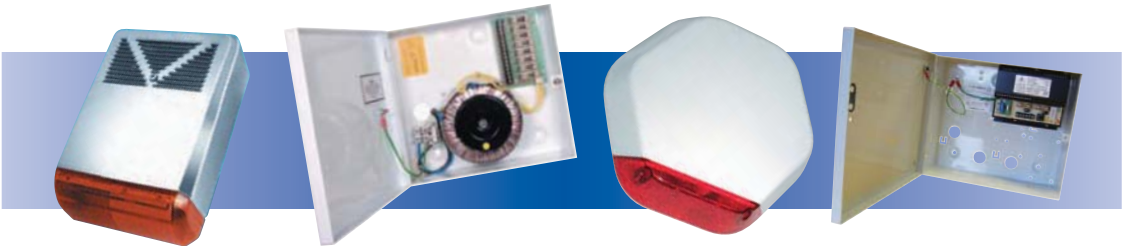


ELMDENE

Protecting People & Property

A  POTTER Company

Product Range 2011



INTRUDER



ACCESS
CONTROL



CCTV



FIRE

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Elmdene International - An Introduction

Who We Are

Elmdene International is a subsidiary of Potter Electric Signal, LLC, upholding traditional values for building relationships and conducting business with customers through our internal and external sales personnel for both UK and International sales.

What We Do

Elmdene is a manufacturer of Electronic Products for the Security, Access Control, CCTV and Fire Industries around the world. Established over forty years ago Elmdene has enjoyed steadfast growth based on the design and production of reliable products for those specific markets.

Our product range has expanded over the years and indeed continues to grow with the introduction of new products to meet customer requirements and in response to the demands of new standards as they arrive in the market place.

Standards and Quality

In addition to being accredited to BS EN9000:2000 for our quality management system, Elmdene manufactures products to quality and technical standards around the world including: VdS in Germany for EN54-4 power supply equipment for the fire industry, Nfa2p in France, NCP in Holland and INCERT in Belgium for Magnetic Contacts, External Sounders, Power Supplies and Inertia Detectors.

Our Aim

To provide customers with quality products they need now and in the future at competitive costs, while providing support at each step from initial product selection through to final installation and beyond.

Warranty Terms

With Effect from June 1st 2009 the following Warranty periods apply from date of manufacture:

Power Supplies and Sounders – 3 Years

Magnetic Contacts, Junction Boxes, Panic Buttons and Door Loops – 5 Years



INTRUDER

ACCESS CONTROL

CCTV

FIRE



INTRUDER



CCTV



ACCESS CONTROL



FIRE

Introduction

Ranges

Elmdene produce both 12V dc and 24V ac & dc power supplies for a wide range of applications including Intruder, Fire, CCTV, Access Control and General Purpose use in both Linear and Switch Mode formats.

Construction

Boxed power supplies are formed from 1.2mm powder coated steel and finished in white; a selection of 24V ac units are available in polycarbonate IP66 rated boxes. Unboxed units are mounted on a 1.2mm galvanised steel chassis. Encapsulated units are class II double insulated.

Features

Individual features of the various ranges are detailed on the following pages.

Standards

All Elmdene power supplies carry the CE mark and conform to EN60950-1:2006, EN50130-4:1995 and EN55022:2006 in addition to standards specified for individual ranges on the relevant pages.

Quick Reference Guide For Choice of Power Supply

12 Volt Range				
Range	Intruder	Access	CCTV	General
G		Page 5&6	Page 5&6	Page 5&6
FS		Page 7		Page 7
EN	Page 8			
Vision			Page 9	

24 Volt Range				
Range	Fire	Access	CCTV	General
Standard		Page 11	Page 11	Page 11
BM	Page 12	Page 12		Page 12
ST	Page 13			
Vision			Page 14	
TR	Page 15	Page 15		

Power Supply Units
you can rely on



12v Ranges

A range of 12V dc Power Supplies manufactured to accommodate the various disciplines of Intruder, Access Control, CCTV and General Purpose use in both Linear and Switch Mode formats.

Designed to provide reliability and performance in their respective field with low maintenance and operational costs.

Typical features include: (Check model for individual specification).

- **High efficiency switch mode operation**
 - Full Current to Load, Plus Additional Current for Charging the Standby Battery
 - Deep Discharge Protection
 - Battery Monitoring
 - LED Status Indication
 - Volt Free Fault Output
 - Mains Transient Protection
 - Electronic Short Circuit Protection
 - Tamper Protected Enclosure
 - Transformer Thermal Protection
 - Alternative Box Sizes
- **G** range for use in **Access Control, CCTV and General Purpose** - page 5&6
 - ◆ Standard & Battery Monitored range of Switch Mode power supplies
 - **FS** range for use in **Access Control, and General Purpose** - page 7
 - ◆ Features signalling of mains fail condition and deep discharge protection
 - **EN** range for use in **Intruder** alarm systems - page 8
 - ◆ Fully compliant with EN50131-6:1997
 - **Vision** range for use in **CCTV** systems - page 9
 - ◆ Linear and Switch Mode power supplies for cameras

Power Supply Units
you can rely on



'G' Range N Series

Switch Mode 12 Volt dc Power Supply Units

High efficiency, cost effective range of Switch Mode power supplies for use in Access Control, CCTV and General Purpose applications. Modular construction provides for easy maintenance and upgrade capability. Boxed and unboxed models.

Featuring a regulated highly stable output supplying a full rated current to load and a universal mains voltage input (90 to 264 Volts a.c.)

The Range Consists of 13 Models:

Boxed		Unboxed	
• G13801N-A	1.0A	• G13801NU	1.0A
• G13802N-A	2.0A	• G13802NU	2.0A
• G13802N-C	2.0A		
• G13803N-A	3.0A	• G13803NU	3.0A
• G13803N-B	3.0A		
• G13803N-C	3.0A		
• G13804N-B	4.0A		
• G13804N-C	4.0A		
• G13805N-B	5.0A		
• G13805N-C	5.0A		

'G-N' Series Features:

- Full Rated Current to Load + 0.5A battery charging
- Universal Mains Voltage Input 90V – 264V ac
- Electronic Overload Protection
- Mains Transient Protection
- Front Tamper Protection
- LED Indication
 - ◆ Mains Status
 - ◆ Fault (1, 2 & 3A Models)

Specification:

Output (mains on)	13.6 – 14.2V dc nominal
Load Output	1,2,3,4 & 5 Amp
Max Battery Capacity	'A' Box: 1 x 7Ah. 'B' & 'C' Box 1 x 17Ah - not supplied
Mains Supply Environment	90 – 264V a.c. @50-60Hz -10C to 40C @ 95%RH

Enclosure:

A	200h x 230w x 80d hinge lid
B	330h x 355w x 80d clam lid
C	275h x 330w x 80d hinge lid

*Power Supply Units
you can rely on*



'G' Range BM Series

Switch Mode 12 Volt dc Power Supply Units

High efficiency, cost effective range of Switch Mode power supplies featuring Mains and Battery Monitoring with two independent volt free fault outputs, for use in Access Control, CCTV and General Purpose applications. Modular construction provides for easy maintenance and upgrade capability.

Featuring a regulated highly stable output supplying a full rated current to load and a universal mains voltage input (90 to 264 Volts a.c.)

The Range Consists of 5 Models:

- G13804BM-B 4.0A
- G13804BM-C 4.0A
- G13805BM-B 5.0A
- G13805BM-C 5.0A
- G13810BM-C 10.0A

'G-BM' Series Features:

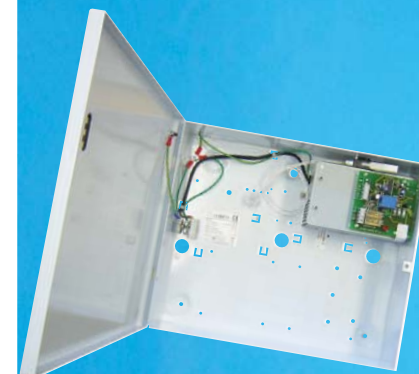
- Full Rated Current to Load + 0.5A battery charging
- Universal Mains Voltage Input 90V – 264V ac
- Mains and Battery Monitoring
- Deep Discharge Protection
- Electronic Overload Protection
- Volt Free Fault Output - 1
 - ◆ Mains Fail
- Volt Free Fault Output – 2
 - ◆ Battery Failure
 - ◆ Output / Battery Fuse Failure
 - ◆ Output Short Circuit or Low Voltage
- LED Indication
 - ◆ Mains Status
 - ◆ Output Fuse Fail
 - ◆ Output Short Circuit or Low Voltage
 - ◆ Battery Low or Missing
- Mains Transient Protection
- Front Tamper Protection

Specification:

Output (mains on)	13.6 – 14.2V dc nominal
Load Output	4, 5 & 10 Amp
Max Battery Capacity	1 x 17Ah - not supplied 2 x 7Ah (10 Amp) - not supplied
Mains Supply Environment	90 – 264V a.c. @50-60Hz -10C to 40C @ 95%RH

Enclosure:

B	330h x 355w x 80d clam lid
C	275h x 330w x 80d hinge lid



*Power Supplies
you can rely on*



'FS'

Range

12 Volt dc Power Supply Units

The 'FS' range of power supplies has been designed for General Purpose applications and Access Control, particularly where there is a requirement for volt free contacts to signal fault conditions.

The Range Consists of Four Models:

- 1381FS 1.0A
- 1382FS 2.0A
- 1383FS 3.0A
- 1385FS 5.0A + 1.0A battery charging

FOM 4 or 8 can be fitted to give independent fused outputs, see ancillaries

'FS' Range Features:

- Full Rated Current to Load + 0.5A battery charging
- Deep Discharge Protection
- Battery Monitoring (1385FS only)
- Electronic Overload Protection
- LED Indication
 - ◆ Mains Status
 - ◆ Output Fuse Failure
 - ◆ Battery Fault (1385FS only)
- Volt Free Fault Output
 - ◆ Mains Fail
 - ◆ Output Fuse Failure
 - ◆ Battery Fault (1385FS only)
- Mains Transient Protection
- Front and Rear Tamper Protection

Specification:

Output (mains on) 13.8V dc nominal
 Load Output 1, 2, 3, 5 Amp
 Max Battery Capacity 1x7Ah or 1x17Ah
 (Dependant on box size, see below - not supplied)

Mains Supply 230V ac +10%/-15% @50Hz
 Environment -10C to 40C @ 95%RH

Enclosure:

'A' 1381/2FS 200h x 230w x 80d hinge lid
 'B' 1381/2/3/5FS 330h x 355w x 80d clam lid
 'C' 1381/2FS 275h x 330w x 80d hinge lid

'A' box will fit 1x7Ah battery
 'B' & 'C' box will fit 1x17Ah battery

*Power Supply Units
you can rely on*



'EN'

Range

12 Volt dc Power Supply Units - EN50131-6 Grades 2 & 3

The EN range of power supplies has been specifically designed to provide a comprehensive and flexible range for engineers designing Intruder Alarm Systems to grade 2 and 3 under PD6662:2004 / EN50131-6, with built in quality and reliability.

The Range Consists of Nine Models:

Grade 2: EN2-07-A, EN2-07-B, EN2-17-B, EN2-17-C
 Grade 3: EN3-07-A, EN3-07-B, EN3-17-B, EN3-17-C, EN3-34-R

A range of box sizes is available to suit your choice of battery:

- 07 models - 1 x 7 or 8Ah 1.0A
- 17 models - 1 x 17 or 18Ah 1.5A
- 34 models - 2 x 17 or 18 Ah 3.0A

Communication devices can be accommodated in a 'B' size box when used with a 7 or 8Ah battery.

EN Features:

- Full current to load plus additional current to charge standby battery
- Comprehensive Battery Management
 - ◆ Deep Discharge Protection
 - ◆ Battery Fault Detection (grade 3)
 - ◆ High Efficiency 3 Stage Charging (17Ah)
 - ◆ Double Battery Model has independent Battery Charging & Monitoring
- Internal LED PSU Status
- Full Rated Current To Load + Battery Charging
- Electronic Overload Protection
- Fault Outputs
 - ◆ EPS Fault (mains fail)
 - ◆ APS Fault (battery fault)
 - ◆ PSU Fault (general fault)
- High Security Front and Rear Tamper (grade 2 front only)
- Mains Transient Protection

Specification:

Grade (EN50131-6) EN2 - Grade 2, EN3 - Grade 3
 Environmental Class II
 Output (mains on) 13.8V dc nominal
 Load Output: 07 Maximum 1.0A 12 hours - 580/660mA (7/8Ah Battery)
 17 Maximum 1.5A 12 hours - 1.4/1.5A (17/18Ah Battery)
 34 Maximum 3.0A 12 hours - 2.8/3.0A (2x17/18Ah Batteries)

Mains Supply 230V ac +10%/-15% @50Hz

Enclosure:

'A' 200h x 230w x 80d - hinge lid
 'B' 330h x 355w x 80d - clam lid
 'C' 275h x 330w x 80d - hinge lid
 'R' 410h x 390w x 90d - clam lid



*Power Supply Units
you can rely on*



'Vision' Range

12 Volt dc Power Supply Units - CCTV

The 'Vision' range of power supplies has been specifically designed for CCTV installations and feature closely regulated 12V dc outputs; the range consists of both Linear and Switch Mode models. Switch Mode power supplies benefit from a universal mains supply voltage of 100V to 253V a.c.

'Vision' range Power Supplies are supplied as Encapsulated or Boxed, dependant on model.

12V dc Switch Mode Power Supplies

Encapsulated – 65x45x25/120x50x30 (3.5A)

VRS12500EE	0.5A
VRS121000EB/EE	1.0A
VRS123500EB	3.5A

Boxed – 200Hx230Wx80D (hinge lid)

VRS124000-4-A	4.0A - 4x1A fused outputs
VRS124000-8-A	4.0A - 8x0.5A fused outputs

PSU with Dusk/Dawn Sensor

VRS123000-P5DS 3.0A IP66 ABS Enclosure
Automatic day/night switching of output & Auxiliary 6A/230V ac contacts with manual override. 200Hx150Wx100d

12V dc Linear Power Supplies

Boxed – 100x150x65 (clam lid)

VR1215	1.5A
--------	------

Encapsulated Models Feature:

- EE/EB models - 2.1mm dc output plug
- Fitted with moulded mains plug:
EB=UK / EE=Europe

Specification:

Output	12V dc nominal
Mains Supply Linear	230V ac +10%/-15%@50Hz
Switch Mode (Encaps)	100V to 253V ac @50-60HZ
Switch Mode (Boxed)	90V to 264V ac @50-60Hz
Environment	-10C to 40C @ 95%RH

See Also 24 Volt Vision Range Power Supplies

*Power Supply Units
you can rely on*



CCTV

Power Supplies 24v Ranges

A range of 24V ac & dc Power Supplies manufactured to accommodate the various disciplines of Fire, Access Control, CCTV and General Purpose in both Linear and Switch Mode.

Designed to provide reliability and performance in their respective field with low maintenance and operational costs.

Typical features include: (Check model for individual specification).

- Full Current to Load, Plus Additional Current to Charge Standby Battery
 - Deep Discharge Protection
 - Battery Monitoring
 - LED Status Indication
 - Volt Free Fault Output
 - Mains Transient Protection
 - Electronic Short Circuit Protection
 - Transformer Thermal Protection
 - Alternative Box Sizes
- **Standard** range for use in **Access Control, CCTV and General Purpose** - page 11
 - ◆ Features include deep discharge protection
 - **BM** range for use in **Access Control, Fire, and General Purpose** - page 12
 - ◆ Features signalling of mains fail condition and deep discharge protection
 - **ST** range for use in **Fire** alarm systems - page 13
 - ◆ Fully compliant with EN54-4:1997 + A2:2006
 - **Vision** range for use in **CCTV** systems - page 14
 - ◆ Linear and Switch Mode power supplies for cameras
 - **TR** range for use in **Access Control / Fire** - page 15
 - ◆ Features remote control of output; ideally suited to powering door retainers.



ACCESS CONTROL



CCTV



FIRE

'Standard'

Range

24 Volt dc Power Supply Units

The 'Standard' range of power supplies has been specifically designed for General Purpose applications including CCTV and Access Control that require a cost effective solution; but also featuring an open collector fault output.

The Range Consists of Four Models:

- 2401 1.0A
- 2402 2.0A
- 2403 3.0A
- 2405 5.0A

FOM 4 or 8 can be fitted to give independent fused outputs, see ancillaries

'Standard' Range Features:

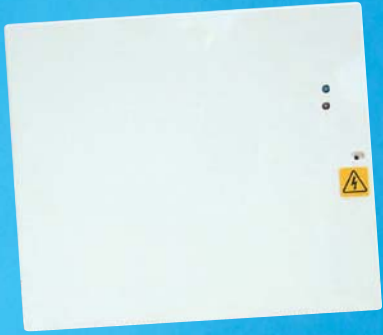
- Full Rated Current to Load + 0.5A battery charging
- Electronic Overload Protection
- Open Collector Fault Output (Sink 100mA)
 - ◆ Mains Fail
 - ◆ Output Fuse Failure
 - ◆ Output Overload or Short Circuit
- Deep Discharge Protection
- LED Indication
 - ◆ Mains Status
 - ◆ Output Fuse Failure
 - ◆ Output Overload or Short Circuit
- Mains Transient Protection

Specification:

Output (mains on)	27.6V dc nominal
Load Output	1, 2, 3, 5 Amp
Max Battery Capacity	2x7Ah - not supplied
Mains Supply Environment	230V ac +10%/-15% @ 50Hz -10C to 40C @ 95%RH

Enclosure:

All Models 'C' - 275h x 330w x 80d hinge lid



*Power Supply Units
you can rely on*



'BM'

Range

24 Volt dc Power Supply Units

The 'BM' range of power supplies has been specifically designed for General Purpose applications including Fire and Access Control that require Battery Monitoring and a volt free fault output for remote signalling of fault conditions.

The Range Consists of Four Models:

- 2401BM 0.5A
- 2402BM 1.5A
- 2403BM 2.5A
- 2405BM 5.0A

FOM 4 or 8 can be fitted to give independent fused outputs, see ancillaries

'BM' Range Features:

- Full Rated Current to Load + 0.5A battery charging
- Electronic Overload Protection
- LED Indication
 - ◆ Mains Status
 - ◆ Output Fuse Failure
 - ◆ Output Overload or Short Circuit
 - ◆ Battery Low or Missing
- Volt Free Fault Output
 - ◆ Mains Fail
 - ◆ Output Fuse Failure
 - ◆ Output Overload or Short Circuit
 - ◆ Battery Low or Missing
- Mains Transient Protection

Specification:

Output (mains on)	27.6V dc nominal
Load Output	0.5, 1.5, 2.5, 5 Amp
Max Battery Capacity	2x7Ah - not supplied
Mains Supply Environment	230V ac +10%/-15% @ 50Hz -10C to 40C @ 95%RH

Enclosure:

All Models 'C' - 275h x 330w x 80d hinge lid



*Power Supply Units
you can rely on*



'ST'

Range

24 Volt dc Power Supply Units - EN54-4 Approved

The 'ST' range of power supplies has been specifically designed for Fire System Installations and features high efficiency switch mode operation, intelligent battery charging and monitoring with remote fault signalling.

Fully compliant with EN54-4:1997 + A1:2002 & A2:2006
VdS certificate No: G209142

The Range Consists of Two Models:

- 2402STE 2.0A • 2405STE 5.0A

'ST' Range Features:

- Full Rated Current to Load + Additional current for battery charging
- Electronic Overload Protection
- LED Indication
 - ◆ Mains Status
 - ◆ Output Fault
 - ◆ Battery Fault
 - ◆ Charger Fault
- Volt Free Fault Output - EPS
 - ◆ Mains Fail
- Volt Free Fault Output – PSU Fault
 - ◆ Battery Fault
 - ◆ Charger Fault
 - ◆ Loss of Output
- Mains Transient Protection
- 2A & 5A models can house and charge 2 x 18Ah batteries
- 5A model can charge up to 2 x 38Ah Batteries housed in separate Battery Box, complete with leads, available on request.

Specification:

Output (mains on)	26.0 - 28.0V dc nominal
Load Output	2.0, 5.0 Amp
Max Battery Capacity (Batteries not supplied)	
2A, 5A	2x17Ah in own enclosure
5A	Up to 2x38Ah in separate Battery Box
Mains Supply	93V ac to 264V ac @50/60Hz
Environment	-10C to 40C @ 95%RH

Enclosure:

All Models	420h x 400w x 80d hinge lid
Battery Box	420h x 420w x 180d hinge lid

*Power Supply Units
you can rely on*



FIRE

'Vision'

Range

24 Volt ac and dc Power Supply Units - CCTV

The 'Vision' range of power supplies has been specifically designed for CCTV installations and feature closely regulated 24V dc outputs as well as 24V a.c. models. The d.c. models are Switch Mode units which benefit from a universal mains supply voltage of 100V to 253V a.c.

24V dc Switch Mode Power Supplies

Encapsulated – 65x45x25

VRS24500EE	0.5A
VRS241000EE	1.0A

24V ac Power Supplies

Encapsulated – 100x70x60

VR24500EB/EE	0.5A
VR241000EB/EE	1.0A

Boxed – 100Hx150Wx65D (clam lid)

VR2410	1.0A – 1x1A fused output
VR2420	2.0A – 1x2A fused output
VR2420-4	2.0A – 4x0.5A fused outputs

Boxed – 185Hx200Wx55D (hinge lid)

VR2440	4.0A – 1x4A fused output
VR2440-4	4.0A – 4x1A fused outputs
VR2440-8	4.0A – 8x0.5A fused outputs
VR2460-4	6.0A – 4x1.5A fused outputs

IP66 ABS Box – 180x182x90

VR2440-P	4.0A – 1x4.0A fused output
VR2440-4P	4.0A – 4x1.0A fused output
VR2460-4P	6.0A – 4x1.5A fused outputs

'Vision' Range Features:

- Encapsulated models fitted with moulded mains plug – EB=UK / EE=Europe
- 24V dc Output flying lead fitted with 2.1mm jack plug

Specification:

Output d.c units	24V dc nominal
a.c units	23-28V a.c.
Mains Supply	Linear 230V ac +10%/-15%@50Hz Switch Mode 100V to 253V @50-60HZ
Environment	-10C to 40C @ 95%RH

See Also 12 Volt Vision Range Power Supplies



*Power Supply Units
you can rely on*



CCTV

'TR'

Range

24 Volt dc Power Supply Units – Remote Controlled Output

The 'TR' range of power supplies has been specifically designed for Access Control / Fire System Installations that require remote control of the power supply output as in the case of door retainers linked to a fire panel.

The Range Consists of Two Models:

- TR2 2.0A
- TR4 4.0A

Special offer bundled kits available:

- TR2+ 2,4 or 6 Door Retainers

'TR' Range Features:

- Remote Control of Output
- Choice of switching options, output normally active, power removed using either option:
 - ◆ Apply 24V dc (from bell circuit)
 - ◆ Normally Open Contact Going Closed
- LED Indication
 - ◆ Mains Status
 - ◆ Output Fuse Failure
- Mains Transient Protection

Specification:

Output 27.6V dc nominal
Load Output 2.0, 4.0 Amp

Not suitable for use with standby batteries

Mains Supply 230V ac +10%/-15% @50Hz
Environment -10C to 40C @ 95%RH

Enclosure:

All Models 'A' 200h x 230w x 80d hinge lid



*Power Supply Units
you can rely on*



Introduction

Range

A range of external sounders designed for use with intruder alarm systems, each model is available in a variety of cover and lens colour options with the HS and Maxitec sounders featuring translucent covers.

All models can be screen-printed with your company logo by our in house screen-printing department.

Colour Options

Cover Material	Cover Colour				Lens Colour			
Polycarbonate	Red	Yellow	Blue	White	Red	Amber	Blue	White
Stainless Steel	Stainless Steel		White		Clear			

Note: Euro Sounder can be supplied with Red, Amber, Blue or White Lens.

Construction

High efficiency electronic modules providing maximum sound output with minimum current demand from the control panel in standby and alarm conditions, which means the control panel has more capacity for other devices such as PIR's etc.

Elmdene external sounders are constructed of robust polycarbonate or stainless steel with options for inner steel covers and backplates if required. All electronics modules are conformally coated to protect them from harsh external environments.

Features

Typical features of Elmdene sounders include options of single or twin piezo, high power strobe and engineer mode for silent start up. (Check model for individual specification)

Enhanced versions of the HS, Maxitec and Vertec include the following additional features: self test of internal battery and piezo, remote test, fault output, audible tamper operation on commissioning and choice of four different tones.

Standards

All Elmdene UK sounders are suitable for use in systems designed to comply with PD6662:2004 at Grade 2,3 or 4 as specified and Environmental Class IV, providing full weather protection to the internal electronics module.

*External Sounders
you can rely on*



Quartz Range

External Sounders

The Quartz Range of external sirens feature a solid coloured Polycarbonate outer cover fitted over a polycarbonate backplate. The electronics module is protected by the polycarbonate backplate and internal cover, in addition to being conformally coated to withstand harsh environments.

All Sounders comply with the following standards:
PD 6662:2004, EN50131-1:2006, EN50130-4, EN61000-6-3

SPECIFICATION	3000	1000
Grade	3	3
Environmental Class	IV	IV
No of Piezo's	2	1
Sound Output (dbA at 1m)	115	112
Operating Voltage - Nominal	12V-dc	12V-dc
Siren Operating Current	130mA	130mA
Strobe Operating Current	100mA	100mA
Standby - Quiescent Current	17mA	17mA
Cut Off Timer	5secs/15 minutes	5secs/15 minutes
LED's	twin - flashing	twin - flashing
Silent Engineer Mode	yes	yes
Internal Battery	6V/300mAh-NiMH	6V/300mAh-NiMH
Replaceable Battery	yes	yes
Siren Trigger	neg	neg
Strobe Trigger	neg	neg
Strobe Flash Rate	1/sec	1/sec
Tamper Detection	cover/rear	cover/rear
Tamper Signal	neg	neg
Drill Detection	n/a	n/a
SAB/SCB	selectable	selectable
Piezo/battery status monitor	n/a	n/a
Fault Output	n/a	n/a
Choice of 4 Tones	n/a	n/a
Audible Tamper Closure	n/a	n/a

Base Plate	3mm polycarbonate	3mm polycarbonate
Inner Cover	3mm polycarbonate	3mm polycarbonate
Outer Cover	3mm polycarbonate	3mm polycarbonate
External Dimensions	292h x 323w x 68d	292h x 323w x 68d
Screen Printing Available	All Models	All Models



*External Sounders
you can rely on*



INTRUDER

Maxitec Range

External Sounders

The Maxitec Range of external sirens feature a coloured translucent Polycarbonate outer cover fitted over a polycarbonate backplate. The electronics modules are protected by a polycarbonate inner cover and conformally coated to withstand harsh environments.

All Sounders comply with the following standards:
PD 6662:2004, EN50131-1:2006, EN50130-4, EN61000-6-3

SPECIFICATION	700	500	500C
Grade	3	3	3
Environmental Class	IV	IV	IV
No of Piezo's	2	2	1
Sound Output (dbA at 1m)	120	118	112
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc
Siren Operating Current	100mA	200mA	200mA
Strobe Operating Current	100mA	100mA	100mA
Standby - Quiescent Current	17mA	40mA	40mA
Cut Off Timer	selectable	selectable	15 min or none
LED's	twin - selectable	twin - selectable	twin - fixed
Silent Engineer Mode	yes	yes	n/a
Internal Battery	6V/300mA-NiMH	6V/300mAh-NiMH	6V/170mA-NiCad
Replaceable Battery	yes	yes	yes
Siren Trigger	neg	pos/neg	neg
Strobe Trigger	neg	neg	neg
Strobe Flash Rate	1/sec	1/sec	1/sec
Tamper Detection	cover/rear	cover/rear	cover/rear
Tamper Signal	neg	pos / neg / vf	neg
Drill Detection	n/a	n/a	n/a
SAB/SCB	selectable	sab	sab
Piezo/battery status monitor	yes	n/a	n/a
Fault Output	yes	n/a	n/a
Choice of 4 Tones	yes	n/a	n/a
Audible Tamper Closure	yes	n/a	n/a

Base Plate	Polycarbonate	Polycarbonate	3mm polycarbonate
Inner Cover	Polycarbonate	Polycarbonate	ABS/Acrylic
Outer Cover	3mm polycarbonate	3mm polycarbonate	3mm polycarbonate
External Dimensions	280h x 320w x 65d	280h x 320w x 65d	280h x 320w x 65d
Screen Printing Available	All Models	All Models	All Models



*External Sounders
you can rely on*



INTRUDER

Vertec

Range

External Sounders

The Vertec Range of external sirens features a solid coloured Polycarbonate outer cover fitted over a polycarbonate or metal backplate. The electronics modules are conformally coated to withstand harsh external environments.

All Sounders comply with the following standards:
PD 6662:2004, EN50131-1:2006, EN50130-4, EN61000-6-3

SPECIFICATION	7000(M)	3000(5000)	1000
Grade	3	3	3
Environmental Class	IV	IV	IV
No of Piezo's	2	2	1
Sound Output (dbA at 1m)	120	118	112
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc
Siren Operating Current	100mA	200mA	200mA
Strobe Operating Current	100mA	100mA	100mA
Standby - Quiescent Current	17mA	40mA	40mA
Cut Off Timer	selectable	selectable	selectable
LED's	twin - selectable	twin - selectable	twin - fixed
Silent Engineer Mode	yes	yes	n/a
Internal Battery	6V/300mA-NiMH	6V/300mA-NiMH	6V/170mA-NiCad
Replaceable Battery	yes	yes	yes
Siren Trigger	neg	pos/neg	neg
Strobe Trigger	neg	neg	neg
Strobe Flash Rate	1/sec	1/sec	1/sec
Tamper Detection	cover/rear/module	cover/rear/module	cover/rear/module
Tamper Signal	neg	pos / neg / vf	neg
Drill Detection	n/a	n/a	n/a
SAB/SCB	selectable	sab	sab
Piezo/battery status monitor	yes	n/a	n/a
Fault Output	yes	n/a	n/a
Choice of 4 Tones	yes	n/a	n/a
Audible Tamper Closure	yes	n/a	n/a

Base Plate	Polycarbonate (Galv steel)	Polycarbonate (Galv steel)	3mm Polycarbonate
Inner Cover	Polycarbonate (Galv steel)	Polycarbonate (Galv steel)	ABS/Acrylic
Outer Cover	3mm polycarbonate	3mm polycarbonate	3mm Polycarbonate
External Dimensions	320h x 210w x 60d	320h x 210w x 60d	320h x 210w x 60d
Screen Printing Available	All Models	All Models	All Models

*External Sounders
you can rely on*



INTRUDER

HS

Range

External Sounders

The HS Range of external sirens feature a coloured translucent Polycarbonate outer cover fitted over a polycarbonate or metal backplate. The electronics modules are protected by a polycarbonate inner cover and conformally coated to withstand harsh environments.

All Sounders comply with the following standards:
PD 6662:2004, EN50131-1:2006, EN50130-4, EN61000-6-3

SPECIFICATION	700(M)	500(M)	500C
Grade	3	3	3
Environmental Class	IV	IV	IV
No of Piezo's	2	2	1
Sound Output (dbA at 1m)	120	118	112
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc
Siren Operating Current	100mA	200mA	200mA
Strobe Operating Current	100mA	100mA	100mA
Standby - Quiescent Current	17mA	40mA	40mA
Cut Off Timer	selectable	selectable	15 min or none
LED's	twin - selectable	twin - selectable	twin - fixed
Silent Engineer Mode	yes	yes	n/a
Internal Battery	6V/300mA-NiMH	6V/300mA-NiMH	6V/170mA-NiCad
Replaceable Battery	yes	yes	yes
Siren Trigger	neg	pos/neg	neg
Strobe Trigger	neg	neg	neg
Strobe Flash Rate	1/sec	1/sec	1/sec
Tamper Detection	cover/rear	cover/rear/module	cover/rear
Tamper Signal	neg	pos / neg / vf	neg
Drill Detection	n/a	n/a	n/a
SAB/SCB	selectable	sab	sab
Piezo/battery status monitor	yes	n/a	n/a
Fault Output	yes	n/a	n/a
Choice of 4 Tones	yes	n/a	n/a
Audible Tamper Closure	yes	n/a	n/a

Base Plate	Polycarbonate (Galv steel)	Polycarbonate (Galv steel)	3mm polycarbonate
Inner Cover	Polycarbonate (Galv steel)	Polycarbonate (Galv steel)	ABS/Acrylic
Outer Cover	3mm polycarbonate	3mm polycarbonate	3mm polycarbonate
External Dimensions	287h x 330w x 73d	287h x 330w x 73d	287h x 330w x 73d
Screen Printing Available	All Models	All Models	All Models

*External Sounders
you can rely on*



INTRUDER

Rapier Range

External Sounders

The Rapier Range of high quality sirens features Stainless Steel covers and Galvonised Steel backplates. The electronics modules are conformally coated to withstand harsh external environments.

All Sounders comply with the following standards:
PD 6662:2004, EN50131-1:2006, EN50130-4, EN61000-6-3

SPECIFICATION	2000	4000	6000
Grade	4	3	3
Environmental Class	IV	IV	IV
No of Piezo's	2	2	2
Sound Output (dbA at 1m)	118	118	118
Operating Voltage - Nominal	12V-dc	12V-dc	12V-dc
Siren Operating Current	350mA	350mA	350mA
Strobe Operating Current	150mA	150mA	150mA
Standby - Quiescent Current	78mA	78mA	78mA
Cut Off Timer	5s/15 min	5s/15 min	5s/15 min
LED's	twin	twin	twin
Silent Engineer Mode	yes	yes	yes
Internal Battery	12V/900mA-NiCad	12V/300mA-NimH	12V/300mA-NimH
Replaceable Battery	yes	yes	yes
Siren Trigger	pos/neg	pos/neg	pos/neg
Strobe Trigger	neg	neg	neg
Strobe Flash Rate	1/sec	1/sec	1/sec
Tamper Detection	cover/rear/module	cover/rear/module	cover/rear/module
Tamper Signal	pos / neg / vf	pos / neg / vf	pos / neg / vf
Drill Detection	yes	n/a	n/a
SAB/SCB	sab	sab	sab
Piezo/battery status monitor	n/a	n/a	n/a
Fault Output	n/a	n/a	n/a
Choice of 4 Tones	n/a	n/a	n/a
Audible Tamper Closure	n/a	n/a	n/a

Base Plate	1.2mm Galvonised Steel	1.2mm Galvonised Steel	1.2mm Galvonised Steel
Inner Cover	1.2mm Galvonised Steel	1.2mm Galvonised Steel	1.2mm Galvonised Steel
Outer Cover	1.2mm Stainless Steel	White Coated Stainless Steel	1.2mm Stainless Steel
External Dimensions	342 x 220 x 55	342 x 220 x 55	342 x 220 x 55
Screen Printing Available	All Models	All Models	All Models

External Sounders
you can rely on



INTRUDER

Euro Siren

External Sounder

A European style siren of Stainless Steel (inox) construction.

Comprising Front cover, Inner cover, totally enclosed conformally coated Electronic module, High quality speaker and backplate.

The siren has a state of the art electronics module with very low power consumption. The electronics module is designed for ease of replacement and set up during commissioning. INCERT approved

SPECIFICATION	5000
Grade	n/a
Environmental Class	IV
Speakers	1
Sound Output (dbA at 1m)	120
Operating Voltage - Nominal	12V-dc
Siren Operating Current	400mA
Strobe Operating Current	100mA
Standby - Quiescent Current	17mA
Cut Off Timer	5secs/8 minutes
LED's	n/a
Silent Engineer Mode	n/a
Internal Battery	12V/2.1 or 7Ah lead acid (not supplied)
Replaceable Battery	yes
Siren Trigger	neg
Strobe Trigger	neg
Strobe Flash Rate	1/sec
Tamper Detection	cover/rear
Tamper Signal	neg
Drill Detection	n/a
SAB/SCB	Direct or SCB
Piezo/battery status monitor	n/a
Fault Output	n/a
Choice of 4 Tones	n/a
Audible Tamper Closure	n/a

Base Plate	1.2mm Stainless Steel
Inner Cover	1.2mm Stainless Steel
Outer Cover	1.2mm Stainless Steel
External Dimensions	185w x 260h x 90d
Screen Printing Available	yes



External Sounders
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INTRUDER

Internal Sounders

A range of four Internal Sounders to suit a variety of applications, the 'Inter' range of polycarbonate sounders is available in three versions, each of which can be supplied with or without an internal battery for SAB or direct operation:

INT Range

- INT400(S) High level sounder only
- INT500(S) High and low level sounder plus strobe
- INT600(S) High and low level sounder

*S models include NiCad battery for SAB operation.

High and low level sounder functions are triggered independently for alarm notification and entry/exit tones as required; low level sounder is fitted with a volume control which can be set to individual requirements.

ELM300

High level sounder in a robust white powder coated steel housing with SCB operation.

All Sounders comply with the following standards:
PD 6662:2004, EN50131-1:2006, EN50130-4, EN61000-6-3

SPECIFICATION	400(S)	500(S)	600(S)	ELM300
Grade	3	3	3	N/A
Environmental Class	II	II	II	II
Siren Output (dbA/1m)	120	120	120	100
Exit Tone Output (db)	N/A	80	80	N/A
Operating Voltage	12V - dc	12V - dc	12V - dc	12V - dc
Siren Operating Current	260mA	260mA	260mA	80mA
Exit Tone Current	N/A	80mA	80mA	N/A
Strobe Operating current	N/A	100mA	N/A	N/A
Quiescent Current	15(19)mA	15(19)mA	15(19)mA	19mA
Cut Off Timer	15 min	15 min	15 min	10 min
Battery 'S' Versions	6v/150mA NiCad	6v/150mA NiCad	6v/150mA NiCad	6v/150mA NiCad
Replaceable Battery 'S' Models	Yes	Yes	Yes	No
Siren Trigger	Neg	Neg	Neg	Pos/Neg
Exit Tone Trigger	N/A	Neg	Neg	N/A
Strobe Trigger	N/A	Neg	N/A	N/A
Strobe Flash Rate	N/A	1/sec	N/A	N/A
Tamper Detection	Cover/Rear	Cover/Rear	Cover/Rear	Cover/Rear
Tamper Signal	Neg	Neg	Neg	Neg
SAB/SCB 'S' Versions	SAB	SAB	SAB	SCB

Cover & Backplate	3mm Polycarbonate	3mm Polycarbonate	3mm Polycarbonate	1.2mm Steel
Dimensions	110W x 160H x 40D	110W x 160H x 40D	110W x 160H x 40D	170W x 225H x 50D
Screen Printing Available	Yes	N/A	Yes	Yes

*External Sounders
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INTRUDER

SI500

Internal Sounder

European style all steel construction, high performance siren suitable for internal use. Conformally coated electronics allow it to be used in a wide variety of environments up to light industrial situations. The unit is ideal for distributed (zonal) warning of alarms and has a high sound output.

Complies with: NFA2P. EN50131-1.

SPECIFICATION	SI500
Grade	3
Environmental Class	II
Siren Output (dbA at 1m)	116
Keypad/Exit Tone Output (dB)	n/a
Operating Voltage - Nominal	12V-dc
Siren Operating Current	1.3A
Keypad/Exit Tone Current	n/a
Strobe Operating Current	n/a
Standby - Quiescent Current	5mA
Cut Off Timer	15/30 min
Internal Battery (not supplied)	12V/2.1Ah lead acid
Replaceable Battery	yes
Siren Trigger	neg
Keypad/Exit Tone Trigger	n/a
Strobe Trigger	n/a
Strobe Flash Rate	n/a
Tamper Detection	yes
Tamper Signal	yes
SAB/SCB	SAB
Cover & Backplate	1.2mm steel
External Dimensions (mm)	192W x 183H x 55D
Screen Printing Available	n/a



*Internal Sounders
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INTRUDER

Magnetic Contacts

Introduction

Range and Grading

Elmdene has an extensive range of high quality Magnetic Contacts providing a choice of both Surface and Flush mounting, with options of 'Cabled' or 'Terminal' Contacts within these ranges.

Our Magnetic Contacts are Graded with respect to PD6662:2004 +A1 +A2 / DD CLC/TS50131-2-6 with options available at Grades 1, 2 and 3.

Terminal Contacts

'Terminal' Contacts are Environmental Class II and available in both Surface & Flush, supplied fitted with resistors of your choice for use in FSL systems and in most cases can also be used in Double Pole systems (check specification). Terminal Contacts benefit from a quality spring action micro switch providing reliable tamper protection.

Cabled Contacts

'Cabled' Contacts are Environmental Class III and are also available in both Surface and Flush fitting; cabled contacts are potted providing life long protection against the ingress of moisture, most are available in 4 or 6 wire versions.

4 wire Contacts are suitable for use in double pole systems, whereas 6 wire Contacts (patent pending) include integral resistors for use in FSL systems but with the added benefit that they can still be used in a double pole system, thus offering maximum versatility. Contacts can be configured to single or multiple doors in each case.

Application Notes

Consideration should be given to the fitting of contacts on or within a ferrous material (e.g. steel), which will usually reduce the operating gap. Some contacts can be supplied with spacers to distance the contact and magnet from a ferrous surface if required.

The 'High Security' range of contacts requires correct orientation with respect to contact and magnet and accurate alignment for successful operation. The VS222 Roller Shutter and the HDBR-SO contacts are available in a reversed (REV) version if required.

Contacts with Integral Resistors

Where Contacts are supplied with Integral Resistors, Cabled or Terminal, a Colour Code is used to make it easy for you to match them to your chosen control panel, ensuring you have the correct value resistors built into the Contact. The colour code is simply attached to the end of the product code, for example EN3-LSC-RD

The table below identifies the 'Contact Colours' designated to the most popular control panels:

Resistors	Colour	Code	Control Panel(s)
4k7 / 2k2	Red	RD	ADE - Bosch - Castle - Dycon - Menvier - Pyronix - Scantronic - Texecom
1k / 1k	Green	GN	Honeywell
8k2 / 8k2	Blue	BL	Guardall
4k7 / 4k7	Grey	GY	Aritech - HKC
6k8 / 4k7	Purple	PU	GardTec
2k2 / 2k2	Yellow	YL	Europlex
5k6 / 5k6	Orange	OR	DSC
22k / 10k	Brown	BRN	Texacom Veritas

*Magnetic Contacts
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INTRUDER



ACCESS CONTROL

Magnetic Contacts Grade 1 & 2

Flush

Grade	1	2	2	2	2
Model	QF-5	6QFC	QFT	6FM2	RFT



Material	ABS	ABS	ABS	ABS and Aluminium	ABS
Colour	White or Brown	White or Brown	White or Brown	Silver	White or Brown

Application

Application	Terminals	Cabled	Terminals	Cabled	Terminals
Cabled / Terminals	Terminals	Cabled	Terminals	Cabled	Terminals
Ferrous Materials	Yes	Yes	Yes	Yes	Yes
Operation Mode	DP	FSL & DP	FSL	FSL & DP	FSL & DP
Single / Multiple Doors	Single or Multiple	Single or Multiple	Single	Single or Multiple	Single
Special Features	N/A	N/A	Tampered Enclosure	Twin Read	Tampered Enclosure
Fixing	Screws	Screws	Screws	Screws	Pin

Contact Details

Contact Details	16	20	10	20	10
Operating Gap- Minimum Close (mm)	16	20	10	20	10
Resistors Fitted	No	Yes	Yes	Yes	Yes
Number of Wires or Terminals	5T	6W	2T	6W	2T
Stainless Steel Cable Protection	N/A	No	N/A	No	N/A
Encapsulation	N/A	Potted	N/A	Potted	N/A

Dimensions

Dimensions	15	15	20.5	15	18
Depth (mm)	15	15	20.5	15	18
Flange (mm)	36 x 22.5	36 x 22.5	36x22.5	57 x 32	26 dia
Body Diameter (mm)	20	20	20	25	20
Magnet	As Contact	As Contact	As Contact	As Contact	As Contact
Cable Length (cm)	N/A	100	N/A	100	N/A

Classification

Classification	1	2	2	2	2
TS50131-2-6 Grade	1	2	2	2	2
NFA2P*					
BVVO*					
NCP*					
INCPRT*					
Environmental Class	II	III	II	III	II
Protection	IP43	IP67	IP43	IP67	IP43

Magnetic Contacts you can rely on



INTRUDER



ACCESS CONTROL

*Contact sales for specific model

Magnetic Contacts Grade 1 & 2

Flush

Grade	2	2	2	2	2
Model	B	M	F	BP	MDP



Material	ABS / Brass	ABS	ABS	ABS	ABS
Colour	Black / Silver	White	White or Brown	White	White

Application					
Cabled / Terminals	Cabled	Cabled	Cabled	Cabled	Cabled
Ferrous Material	No	No	No	No	Yes
Operation Mode	FSL & DP	FSL & DP	FSL & DP	FSL & DP	FSL & DP
Single / Multiple Doors	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple
Special Features	N/A	N/A	N/A	N/A	Ideal for Ferrous M
Applications					
Fixing	Push Fit	Push Fit	Push Fit	Pin	Screw

Contact Details					
Operating Gap- Minimum Close (mm)	10	10	10	10	20
Resistors Fitted	6 wire version	6 wire version	6 wire version	6 wire version	6 wire version
Number of Wires or Terminals	4W or 6W	4W or 6W	4W or 6W	4W or 6W	4W or 6W
Stainless Steel Cable Protection	No	No	No	No	No
Encapsulation	Potted	Potted	Potted	Potted	Potted

Dimensions					
Depth (mm)	34	34	34	34	34
Flange (mm)	12	9.5	N/A	18	28x38 Oval
Stand off flange diameter (mm)	N/A	N/A	N/A	N/A	25
Body Diameter (mm)	7.5	7.5	7.5	8	12
Magnet	As Contact	As Contact	As Contact	As Contact	As Contact
Cable Length (cm)	60	60	60	60	60

Classification					
TS50131-2-6 Grade	2	2	2	2	2
NFA2P*	Yes				
BVVO*		Yes			Yes
NCP*		Class 2			Class 2
INCERT*		Yes			Yes
Environmental Class	III	III	III	III	III
Protection	IP67	IP67	IP67	IP67	IP67

Magnetic Contacts Grade 2

Surface - Plastic

Grade	2	2	2	2	2	2	2	2	2
Model	QST	MST	LST	SHD	SHD2	S	SL	PHD	SFU/E



Material	ABS	ABS	ABS	ABS	ABS	ABS	ABS	ABS	ABS
Colour	White or Brown	White or Brown	White or Brown	White	White	White or Brown	White or Brown	White	White or Brown

Application									
Cabled / Terminals	Terminal	Terminal	Terminal	Terminal	Terminal	Cabled	Cabled	Cabled	Cabled
Ferrous Materials	With Spacer	With Spacer	With Spacer	No	No	With Spacer	Yes	Yes	No
Operation Mode	FSL & DP	FSL & DP	FSL & DP	FSL & DP	FSL & DP	FSL & DP	4 wire - DP		
6 wire - FSL & DP	FSL & DP	FSL & DP							
Single / Multiple Doors	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple
Special Features	Tampered Enclosure	Tampered Enclosure	Tampered Enclosure	N/A	N/A	N/A	N/A	N/A	Flush or Surface Mounting
Spacers Available	2.5mm	2.5mm	2.5mm	N/A	N/A	1.5mm	N/A	N/A	N/A
Fixing	Screws	Screws	Screws	Screws	Screws	Screws	Screws	Screws	Screws

Contact Details									
Operating Gap- Minimum Close (mm)	20	30	40	12	10	15	20	30	10
Resistors Fitted	Yes	Multiple	Yes	FSL version	FSL version	6 wire version	Yes	6 wire version	6 wire version
Number of Wires or Terminals	4T	5T	6T	4T	6T	4W or 6W	6W	4W or 6W	4W or 6W
Stainless Steel Cable Protection	N/A	N/A	N/A	N/A	N/A	No	No	No	No
Encapsulation	N/A	N/A	N/A	N/A	N/A	Potted	Potted	Potted	Potted

Dimensions									
Length (mm)	70	84	93	61	61	38	70	80	57
Width (mm)	17	19	25	23	23	14	17	20	14
Depth (mm)	15	19	25	13.5	13.5	8.5	15	12	13.5
Magnet	As Contact	As Contact	As Contact	As Contact	61 x 14 x 9	As Contact	As Contact	As Contact	As Contact
Cable Length (cm)	N/A	N/A	N/A	N/A	N/A	60	100	60	60

Classification									
TS50131-2-6 Grade	2	2	2	2	2	2	2	2	2
NFA2P*					Yes	Yes			
BVVO*				Yes		Yes			
NCP				Class 2		Class 2			
INCERT*				Yes		Yes			
Environmental Class	II	II	II	II	II	III	III	III	III
Protection	IP43	IP43	IP43	IP43	IP43	IP67	IP67	IP67	IP67



Magnetic Contacts you can rely on

*Contact sales for specific model

*Contact sales for specific model

Magnetic Contacts Grade 2

Surface - Metal

Grade	2	2	2	2	2	2	2	2
Model	VHDA	SM	HD	HD-SO	RSC	6RSA	RSM	RSL



Material	ABS and Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Colour	Grey and Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver

Application

Cabled / Terminals	Terminal	Cabled	Cabled	Cabled	Cabled	Cabled	Cabled	Cabled
Ferrous Materials	Yes	With Spacer	With Spacer	Yes	Yes	Yes	Yes	Yes
Operation Mode	FSL & DP	FSL & DP	4 wire - DP 6 wire - FSL & DP	4 wire - DP 6 wire - FSL & DP	4 wire - DP 6 wire - FSL & DP	4 wire - DP 6 wire - FSL & DP	4 wire - DP 6 wire - FSL & DP	4 wire - DP 6 wire - FSL & DP
Single / Multiple Doors	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple
Special Features	Tampered Enclosure	N/A	N/A	Stand Off Bracket	Stainless Steel Cable Protection	Stainless Steel Cable Protection	Stainless Steel Cable Protection	Stainless Steel Cable Protection
Spacers Available	N/A	3.3mm	3.3mm	N/A	N/A	N/A	N/A	N/A
Fixing	Screws	Screws	Screws	Screws	Screws	Screws	Screws	Screws

Contact Details

Operating Gap- Minimum Close (mm)	42	15	25	25	55	55	70	55
Resistors Fitted	Yes	6 wire version	6 wire version	6 wire version	6 wire version	6 wire version	6 wire version	6 wire version
Number of Wires or Terminals	6T	4W or 6W	4W or 6W	4W or 6W	4W or 6W	6W	4W or 6W	4W or 6W
Stainless Steel Cable Protection	No	No	Option	Option	50cm	100cm	50cm	50cm
Encapsulation	NA	Potted	Potted	Potted	Potted	Potted	Potted	Potted

Dimensions

Length (mm)	170	38	80	80	175	150	175	94
Width (mm)	25	16	19	32	52	40	52	40
Depth (mm)	25	9.5	12.5	45	15	14	15	15
Magnet	As Contact	As Contact	As Contact	As Contact	85 x 70 x 35	73 x 60 x 40	85 x 70 x 35	50 x 55 x 35
Cable Length (cm)	N/A	60	100	100	100	100	100	100

Classification

TS50131-2-6 Grade	2	2	2	2	2	2	2	2
NFA2P*			Yes					
BVVO*			Yes	Yes			Yes	
NCP*			Class 2	Class 2			Class 2	Class 2
INCERT*			Yes	Yes			Yes	Yes
Environmental Class	II	III	II	II	III	III	III	III
Protection	IP43	IP67	IP67	IP67	IP67	IP67	IP67	IP67

*Contact sales for specific model

Magnetic Contacts Grade 3

Flush

Surface

Grade	3	3	3	3
Model	EN3-QFC	EN3-QSC	EN3-LSC	EN3-RSA



Application

Cabled / Terminals	Cabled	Cabled	Cabled	Cabled
Ferrous Material	Yes	With Spacer	With Spacer	Yes
Operation Mode	FSL or DP	FSL or DP	FSL or DP	FSL or DP
Single / Multiple Doors	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple
Special Features & Detection	Magnetic Immunity	Magnetic Immunity	Magnetic Immunity	Magnetic Immunity
Spacers Available	N/A	2.5mm	2.5mm	N/A
Fixing	Screws	Screws	Screws	Screws
Material	ABS	ABS	ABS	Aluminium
Colour	White or Brown	White or Brown	White or Brown	Silver

Contact Details

Magnetic Detection / Immunity	Immunity	Immunity	Immunity	Detection / Immunity
Operating Gap- Minimum Close (mm)	13	11	7	18
Resistors Fitted	Yes	Yes	Yes	Yes
Number of Wires or Terminals	6W	6W	6W	6W
Stainless Steel Cable Protection	No	No	No	100cm
Encapsulation	Potted	Potted	Potted	Potted

Dimensions

Length (mm)	N/A	70	93	150
Width (mm)	N/A	17	25	40
Depth (mm)	15	15	25	14
Flange (mm)	36 x 22.5	N/A	N/A	N/A
Body Diameter (mm)	20	N/A	N/A	N/A
Magnet	As Contact	As Contact	As Contact	73 x 60 x 40
Cable Length (cm)	100	100	100	100

Classification

TS50131-2-6 Grade	3	3	3	3
NFA2P*				
BVVO*				
NCP*				
INCERT*				
Environmental Class	III	III	III	III
Protection	IP67	IP67	IP67	IP67

*Contact sales for specific model

High Security Magnetic Contacts

Fire Signalling

Flush

Surface

Grade	2		2		2		2	
Model	FMBR	VS105	HSI	HDBR	HDBR-SO	VS222	VS302	VS303



Application

Cabled / Terminals	Cabled	Cabled	Cabled	Cabled	Cabled	Cabled	Cabled	Cabled
Ferrous Material	No	Yes	No	With Spacer	Yes	Yes	Yes	Yes
Operation Mode	4 wire - DP	4 wire - DP	4 wire - DP	4 wire - DP	4 wire - DP	4 wire - DP	4 wire - DP	4 wire - DP
	6 wire - FSL & DP	6 wire - FSL & DP	6 wire - FSL & DP	6 wire - FSL & DP	6 wire - FSL & DP	6 wire - FSL & DP	6 wire - FSL & DP	6 wire - FSL & DP
Single / Multiple Doors	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple	Single or Multiple
Special Features	Multiple Reeds	Passive Tamper	Multiple Reeds	Multiple Reeds	Multiple Reeds	Multiple Reeds	Multiple Reeds	Multiple Reeds
	Active Tamper		Active Tamper	Passive Tamper	Passive Tamper	Active Tamper	Passive Tamper	Active Tamper
Spacers Available	N/A	N/A	N/A	3.3mm	N/A	N/A	N/A	N/A
Fixing	Screws	Screws	Screws	Screws	Screws	Screws	Screws	Screws

Material	N.C/Brass	Stainless Steel	ABS	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Colours	Silver	Silver	White	Silver	Silver	Silver	Silver	Silver

Contact Details

Operating Gap- Minimum Close (mm)	5	5	7	17	17	10	10	5
Number of Reeds	2	1	2	3	3	4	3	5
Biased Reeds	1	1	0	1	1	2	3	3
Tamper	Active	Passive	Active	Passive	Passive	Active	Passive	Active
Resistors Fitted	6 wire version	6 wire version	6 wire version	6 wire version	6 wire version	6 wire version	6 wire version	6 wire version
Number of Wires or Terminals	4W	4W	4W	4W	4W	6W	4W	4W
Stainless Steel Cable Protection	No	No	No	50cm	50cm	50cm	50cm	50cm
Encapsulation	Potted	Potted	Potted	Potted	Potted	Potted	Potted	Potted

Dimensions

Length (mm)	N/A	65	39	80	80	175	109	109
Width (mm)	N/A	10	20	19	32	52	38	38
Depth (mm)	22	11.5	9	12.5	45	15	19	19
Flange (mm)	57 x 32	98.5 x 30	N/A	N/A	N/A	N/A	N/A	N/A
Body Diameter (mm)	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Magnet	As Contact	25x18 (38x28 flange)	39 x 14 x 9	As Contact	As Contact	85 x 70 x 35	As Contact	As Contact
Cable Length (cm)	50	50	50	100	100	100	100	100

Classification

TSS0131-2-6 Grade	2	2	2	2	2	2	2	2
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NFA2P*								
BVVO*	Yes			Yes				
NCP*	Class 3			Class 3				
INCERT*	Yes			Yes				
Environmental Class	III	III	III	III	III	III	III	III
Protection	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67

*Contact sales for specific model

Interface

FSI-01

A fully monitored signalling interface for use in installations where fire and Intruder systems signal via a shared STU, the FSI-01 provides an interface between the Fire System Control Panel and STU providing independent access for Fire & Intruder Engineers.

Line Faults, Mains Fail & Battery Fault conditions are reported to both Fire & Intruder systems, allowing them to operate in unison without conflict. Additionally the FSI detects short and open circuit conditions on cabling between the Fire Panel and FSI unit.

The interface comprises of two separate sections providing physical segregation between the Intruder and Fire system connections, with both compartment covers being independently monitored for Tamper.

There is also a 'Shunt' key switch function that allows the Fire system to be tested 'locally' without the ARC being notified; this is indicated on the front panel (LED) as well as having the facility to drive a remote indicator.

The FSI-01 is designed to be close coupled to an Elmdene Power Supply also providing housing for the RedCare STU.

Specification:

Operating Voltage	9Vdc – 30Vdc
Input Current	60mA Max @ 12Vdc, normal state
Relay Outputs	Volt free contacts, 30vdc, 0.5A max switch
Shunt Active Output	Open Collector
Dimensions	170w x 107h x 40d
Environmental	-10 to +40C 75% RH non-condensing



*Fire Signalling
you can rely on*



Safe

Limpets

Designed for the protection of Safes, Filing Cabinets, Fruit Machines and any valuable article or piece of equipment that has a ferrous metal exterior. Safe Limpets incorporate multiple detection systems to provide comprehensive protection against attack.

The Range Consists of Two Models

- E16A
- E20

Features – E16A

- Inertia Vibration Detector
- Integral Analyser
- Thermal Sensor
- Proximity Sensor
- Supply Failure Detection
- Complete With 'Keep' for attachment to Safe

Features – E20

- Piezo Vibration Detector
- Integral Analyser
- Thermal Sensor
- Proximity Sensor
- Magnet Interference Detection
- Supply Failure Detection
- Complete with 'Keep' for attachment to Safe

Specification:

EN50131-1:2006	Grade 3
PD6662:2004 A1+A2	II
Environmental Class	
Supply	12V dc Nominal
Alarm Contact	N.C – Open on Alarm
Tamper Contact	N.C – Open Lid Removed

Dimensions		
Limpet	E16A	120Hx95Wx75D
	E20	120Hx95Wx35D
Keep	E16A / E20	130Hx105Wx30D

*Safe Limpets
you can rely on*



INTRUDER

Panic

Buttons

A range of panic buttons for use in commercial and domestic situations aesthetically pleasing and ergonomically designed combining good looks with functionality.

All units are Grade 3 Double Push with integral resistors for use with most control panels (see table below) or option for Double Pole. Spare terminals allow through connection for multiple units wired to one zone.

Special features include integral storage of reset key and anti-lock reset mechanism to ensure unit still operates if reset key is left in the unit and silent operation.

Elmdene Panic Buttons fully comply with 'The ACPO 10 Point Plan' and all requirements under EN50131-1:2006 and PD6662:2004 A1 + A2.

The Range Consists of Three Models

- ELM-PA-G3-W Double Push PA – White
- ELM-PA-G3-B Double Push PA – Brass*
- ELM-PA-G3-SS Double Push PA – Stainless Steel*
*Plated finish on plastic
- ELM-PA-G3-BK Double Push PA – Black

Panic Button Features

- Silent Operation
- FSL and D/P Connection
- Multiple Control Panel / Resistor Options
- Easy Connection of Multiple Units
- Rear Tamper
- Anti-lock Reset Mechanism
- Independent Micro Switch Tamper (removal of cover initiates tamper signal only)
- Integral Storage for Reset Key
- Selectable Normally Closed or Open Contacts

Control Panel / Resistor Options

- 4k7/2k2 ADE, Bosch, Castle, Menvier, Pyronix, Scantronic, Texecom
- 1k/1k Galaxy
- 8k2/8k2 Guardall
- 4k7/4k7 Aritech
- 6k8/4k7 GardTec
- 2k2/2k2 Europlex
- 5k6/5k6 DSC
- Double Pole (no resistors)

Specification:

EN50131-1:2006	Grade 3
PD6662:2004 A1 + A2	II
Environmental Class	
Hold Up Alarm	N.C or N.O contacts
Tamper	N.C Microswitch
Dimensions	80L x 62Wx 27D



*Panic Buttons
you can rely on*



INTRUDER

Graffiti Detector

The Merlin™ Graffiti Detection System (MGD-S) is a versatile and cost effective solution for the world wide graffiti problem. Advanced heuristics and algorithms allow the Merlin™ to identify and characterise a graffiti event by intelligent recognition of an aerosol fingerprint. This process is both reliable and accurate. The MGD uses a volt-free contact outputs to seamlessly attach to a siren, alarm system or CCTV system, allowing immediate event detection and notification. There is also a tamper facility available; alerting the operator if the MGD cover is removed. Size, coverage area and cost are similar to that of standard PIR motion detectors, yet the underlying mechanism is unique and vastly more sophisticated. Whether you are protecting a small business, a school or a public area, the Merlin™ Graffiti Detection System will fit your needs.

Using sophisticated audio sensors that detect the exact sound of spray paint, the Merlin Graffiti Detector instantly triggers alarms to deter graffiti vandals and keep them from coming back, all for much less than the on-going cost of paint removal.

- Fast Detection.
- Easy Install & Setup.
- Volt-free Relay Outputs.
- Units can be linked together to cover larger areas.
- Single unit or kit form.

The volt-free relay outputs can be used to trigger an activation device as the installation suits; either deterring the perpetrator locally, alerting personnel within the vicinity or sending a signal back remotely allowing the authorities to take the appropriate action.

Specification:

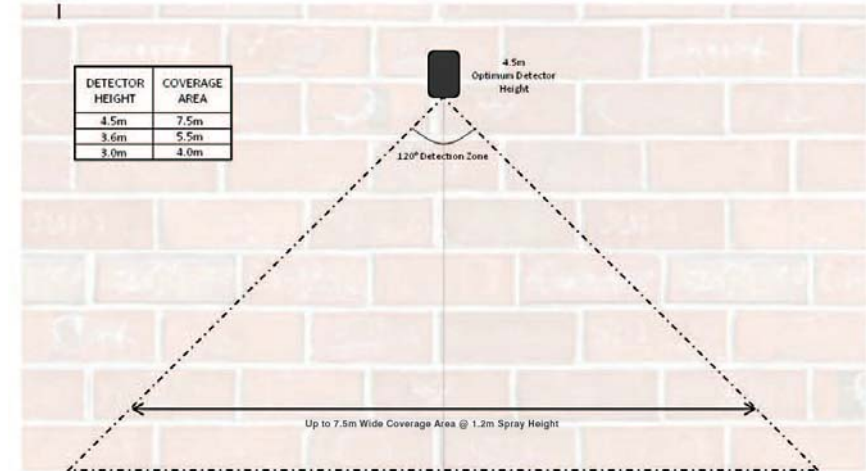
Supply	7.5 – 24Vdc
Alarm Relay (x2) Contact Rating	N.O / N.C volt free contacts 1A @30Vac/dc
Power (Typical)	60mA @ 12Vdc
Environment	-20C to 70C
Dimensions	127Hx75Wx50D

*Graffiti Detectors
you can rely on*

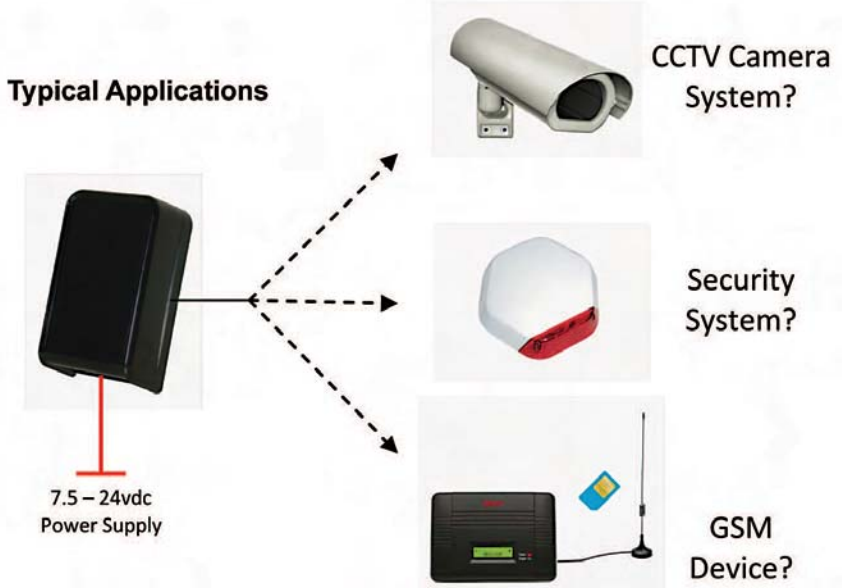


INTRUDER

Graffiti Detector



Typical Applications



INTRUDER

WIRING SYSTEMS

UP TO 4x 8 CORE SECURITY CABLES ENTRY FROM REAR



MT1 TRUNKING

MT2 TRUNKING

MULTIPLE SECURITY CABLES ENTRY FROM REAR THROUGH KNOCKOUTS

Junction Boxes you can rely on



INTERNAL CAVITY ALLOWS PLENTY OF ROOM TO TERMINATE CABLES

STRENGTHENED LID CONSTRUCTION PROVIDES SUPERIOR PROTECTION

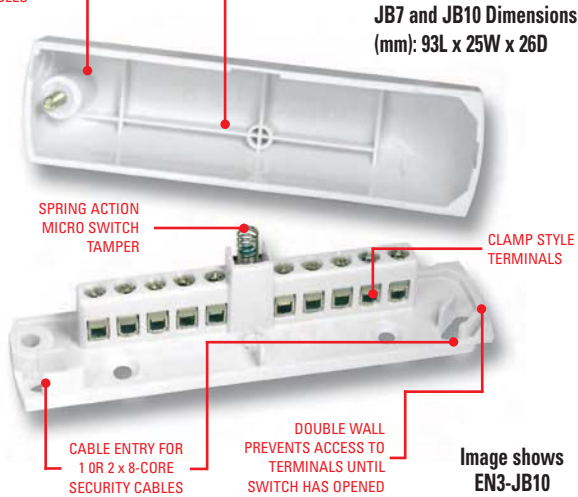
The EN range of Junction Boxes feature a high reliability spring action micro switch for the lid tamper, so now your engineers can confidently connect the tamper when using a junction box;

EN3-JB7
7 Terminals including 2 tamper connections

EN3-JB10
10 Terminals including 2 tamper connections

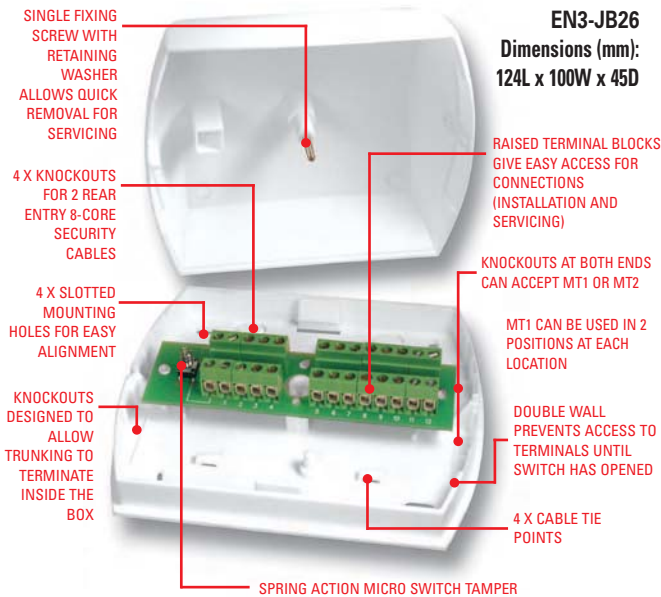
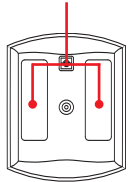


JB7 & JB10 also available in brown



ENVIRONMENTAL CLASS II

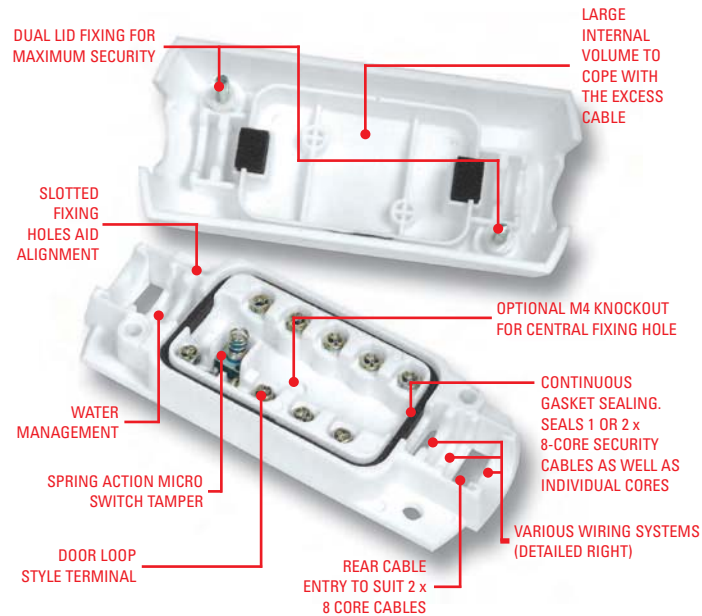
WRITABLE SURFACE INSIDE LID FOR CIRCUIT REF. & RECORDS



maintaining the security and integrity of the system and indeed the reputation of your company.
The Junction Boxes are designed to meet PD6662:2004 +A1 +A2/ BS EN 50131-1:2006 and the environmental testing requirements of EN 50131-2:2008 Class II or III as indicated.

ENVIRONMENTAL CLASS III

EN3-JB9 Dimensions (mm): 94L x 40W x 25D



Also available in brown

End sealing Grommets supplied separately in packs of 10



Junction Boxes you can rely on



WIRING SYSTEMS

8-CORE CABLE

8-CORE STRIPPED

ROUND GROMMET

SQUARE GROMMET

ROUND ALL CONDUIT

ALL CONDUIT SQUARE GROMMET

DOOR LOOP

MTY TRUNKING

Intruder Alarm Systems Accessories

A range of ancillary items primarily for use in intruder alarms systems but also suitable for other related applications.

Lockable Enclosure for Control Panel Keypads - Elm-Keypad-Box

Robust white powder coated steel enclosure designed to provide physically restricted and controlled access to control panel keypads that are mounted in open access environments.

The box features a lockable lid with key removable in both locked and unlocked positions; all units are keyed alike. An internal mounting plate is pre drilled to accept a wide range of commonly used control panel keypads or can be drilled to suit individual applications. The keypad box has a hinged lid and can be mounted to suit left or right hand applications. Dimensions 190Hx205Wx55D

Lockable Document Box - A4-Doc-Box

For safe keeping of important system documents / log books etc. Formed from white powder coated steel with cam lock, all units keyed alike. Dimensions 300Hx235Wx50D

Alarm System Setting Devices

Push Set Switch with LED Indicator - SS2/W – SS2/B

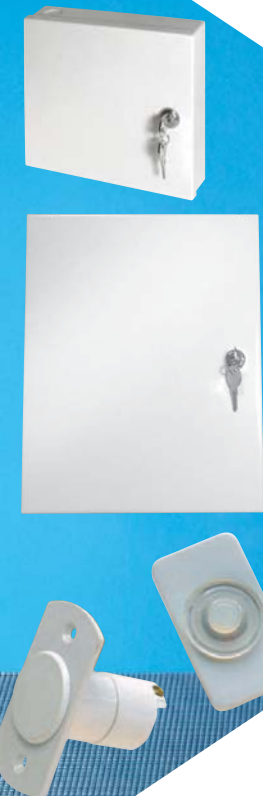
Simple 'door bell' style push switch with LED indicator ring

- N.O. contact, push to close
- Red LED bezel with 1k series resistor for 12V operation
- 2 x screw terminal connections for N.O. Push
- 2 x screw terminals for LED: +12V / 0V
- Available in white (W) or brown (B)
- Flange: 48x26, body: diameter 19mm, depth 13mm

Magnetic Set Switch – Set Switch (BN)

Discrete ferrous metal sensitive switch

- N.O contact, momentary close by presenting metal tag
- 2 x screw terminal connections for N.O. contacts
- Available in white or brown (BN)
- Flange: 50x26, body: diameter 19mm, depth 33mm



*Ancillaries
you can rely on*



INTRUDER ACCESS CONTROL CCTV

Intruder Alarm Systems Accessories

Security Equipment for use in Intruder Alarm Systems and Retail Security

Extension Speakers

A range of three Extension Speakers for intruder alarm systems, 8 and 16 ohm units available all rated at 20W and housed in a polycarbonate enclosure.

The Range Consists of Three Models:

TS443-16T	Tampered 16ohm
TS443-16	Un-tampered 16ohm
TS443-8	Untampered 8ohm
Dimensions: 110Hx110Wx55D	

Door Loops

A range of Door Loops and Door Loop Kits for applications requiring a flexible routing across a hinged or sliding door, window or partition.

Features

- 6 Core flexible tinsel cable
- Coloured cable cores
- Square cable grommets for sealing into EN3-JB9-HD
- Available in White or Brown

Sizes

- EDL1 30cm fixed length
- EDL2 25cm extendable up to 170cm
- EDL3 50cm extendable up to 330cm

Each of the Door Loops above is also available as a Door Loop Kit with an EN3-JB9-HD junction box at each end.

Exit Alarm - X12D

Self contained unit ideal for the monitoring of fire exit doors etc or any door that requires an alarm when opened by unauthorised personnel. Internal battery (dry cell PP9) gives minimum 6 months standby; key operated for setting and reset, detection and tamper circuit. Supplied with two keys, battery, 8m of wire and door contact. Also features battery test push and LED indicator. Can be powered by remote 12V psu if required but internal dry cell battery must then be removed. Dimensions: 190Hx155Wx55D



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INTRUDER ACCESS CONTROL

General Purpose Accessories

A range of useful accessories that may be used in a variety of applications.

Fused Output Module – FOM4/8

Particularly useful in CCTV applications this module provides 4 or 8 individually fused outputs with a maximum capacity of 6 Amps at 50V ac or dc.

Supplied with self-adhesive feet this module can be fitted in to most power supplies to provide separate fused outputs to multiple devices.
Dimensions: 97Lx66Wx33D.

Multi Purpose Relay – MPR001

Very useful device that provides two sets of relay changeover contacts capable of being driven from a normal 12V supply or a low current source.

Link option selects: relay changeover on application of 12V supply or low current trigger input.

Specification

Supply 12-13.8Vdc
Current 20mA
Trigger Input 1.5mA
Switch Load Maximum 1A @ 24V dc or 0.5A @ 125V ac
Dimensions 72Lx26Wx20D

Mains Relay Timer

A mains switching relay controlled from a 12V source with optional 2 to 40-minute timer for timed on or off function.

Timer mode

Normal Trigger Mode - Relay follows input trigger or resets on expiry of timer
Pulse Trigger Mode – Relay only resets on expiry of timer.

Relay Mode

Output follows input trigger, no timer function.

Specification

Supply 12V dc
Current 50mA
Trigger 12V dc
Switch Load Maximum 3A @ 240V ac
Timer 2 – 40 minutes
Dimensions 124Lx100Wx45D

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INTRUDER ACCESS CONTROL CCTV FIRE

International Ltd

EN50131 & PD6662: 2004 +A1 +A2 Product Security Grading and Environmental Class

The following Elmdene International Ltd products may be used in systems designed to comply with PD6662: 2004 at the indicated security grade and environmental class.

Compliant with PD6662:2004 / BS EN 50131-1

External Sounders	Grade	Class
HS Range	3	IV
Maxitec Range	3	IV
Prima 400, 500	3	IV
Quartz Range	3	IV
Rapier 2000	4#	IV
Rapier 4000, 6000	3	IV
Sounda	3	IV
Starlight Range	3	IV
Vertec Range	3	IV

Internal Sounders	Grade	Class
INT 400S, 500S, 600S	3	II
INT 400, 500, 600	3*	II
SI500	3	II

Speakers	Grade	Class
TS443-16	3*	II
TS443-16T	3*	II
TS443-8	3*	II

Ancillaries	Grade	Class
Document Box	All	II
ELM-Keypad-Box	All	II
EN3-7, 10, 26	3	II
EN3-JB9-HD	3	III
Set Switch Range	3	II

Compliant with DD CLC/TS50131-2-6:2004

Contacts	Grade	Class
B, BP	2	III
EN3 Range	3	III
F, FM2	2	III
HD, HD-SO	2	III
HDBR, HDBR-SO	2	III
HSI	2	III
LST	2	II
M, MDA, MDP, MST*	2	III (*II)
PHD	2	II
QF-5	1	II
QFC, QFT*, QSC, QST*	2	III (*II)
RFT	2	II
RSA, RSC, RSL, RSM	2	III
S, SFE, SFU, SL, SM	2	III
SHD, SHD2	2	II
VHDA	2	II
VS105, VS222, VS302, VS303	2	III

Compliant with EN50131-6:1997

Power Supplies	Grade	Class
EN2 Range	2	II
EN3 Range	3	II

Detection & Hold Up	Grade	Class
Limpets E16, E16A, E20	3	II
ELM-PA-G3	3	II

3* - Should not be used as a warning device for notification purposes.

4# - Grade 4 when used with i.d biscuit.

All - Not required to be graded but suitable for use in PD6662 systems.

Issue Date January 2010

RoHS and WEEE Directives

RoHS

Elmdene Products comply with RoHS regulations

WEEE

Elmdene registered with the Environment agency from March 2007

Our unique Producer Registration Number is:
WEE/DG0052TQ

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