



## KAC ALARM COMPANY LIMITED

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THE WORLD SERIES OF CALL POINTS AND ACCESSORIES

# PRODUCT INFORMATION

Issue January 1999 - expanded to 16 pages, additions include Rainproof Models and Pattress

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As Call Point Specialists, KAC Alarm Company Limited is dedicated to satisfying the ever more diverse needs of the Alarm Industry. This has resulted in the Range of Call Points and Associated Products manufactured by KAC becoming the largest and most comprehensive in the World.

Associated Publication Reference LIT:101 provides a colourful overview of the seven Model "Classes" of THE WORLD SERIES.

### NON LISTED PRODUCTS AND "SPECIALS":

It is only possible to catalogue the more widely used products in this publication. KAC's Technical Department will be pleased to answer application questions, to provide details of Non Listed products, and if appropriate design a model variant to meet a specific requirement.

### PRICE CODES:

These are in the style "00-000" and cross refer with those in the Price List dated January 1999. The first one or two digits define the number of the page of this document on which the item is described; the other three digits form a sequential number that identifies the particular item.

## MARKING AND PUNCHING

**MARKING** refers to information printed on the exterior of the Call Point and on associated components. **PUNCHING** refers to punching the Escutcheon Plate of CLASS 9000 Models to accommodate various types of switching devices. Various charges are made for these services, the following terms define those charges:

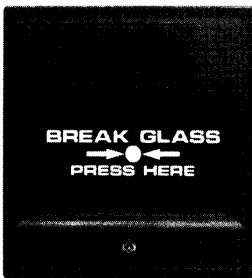
**PREFERRED** No additional charges apply.

**NEW MARKING/PUNCHING:** An **Initiation Charge** is made plus, in some cases, a charge per **Item Printed/Punched**.

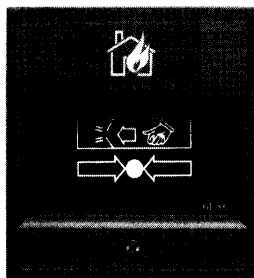
**EXISTING MARKING/PUNCHING:** Those for which printing plates or punch tools exist. No initiation charge is made but in some cases a **Setup Charge** is made per order and in some cases a charge is made for each **Item Printed/Punched**.

**All indicated prices are for single colour printing in black or white, as is standard for that particular class of printing.**

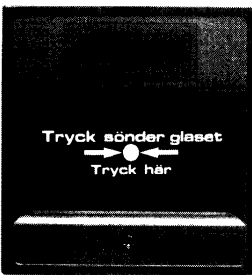
**Examples of Fire Alarm Models with PREFERRED Marking.**



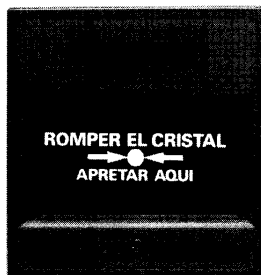
Glass Marking: GL002  
Function Marking: F 001



Glass Marking: GL532  
Function Marking: F 222



Glass Marking: GL061  
Function Marking: F 014



Glass Marking: GL100  
Function Marking: F 005

Unless otherwise requested, Call Points will be "Branded" KAC as illustrated. This will ensure that the user will be able to source Replacement Glasses.

**FUNCTION MARKING** refers to marking the Call Point with the Switching Function to be performed by the Call Point; examples "FIRE", "EMERGENCY STOP". "FIRE", in all national languages, are among the available **PREFERRED** Function Markings (no additional charge). Some examples of other **PREFERRED** Function Markings are provided on Page 5, a complete list will be provided on request.

**NEW FUNCTION MARKINGS:**

**Initiation Charge** - 2-001; and a charge Per Item Printed.

**EXISTING FUNCTION MARKINGS:**

**Setup Charge** - 2-007 per order; and a charge Per Item Printed.

**"BRANDED" LID AND DEFORMABLE ELEMENT** refers to the printing of corporate information on the Call Point Lid and on the Deformable Operating Element.

The **ESCUTCHEON PLATE** of a CLASS 9000 Call Point must be suitably punched to accept the particular switching device and may need to be printed with operator instructions. The punchings and printings of those examples illustrated on Pages 14 to 16 are **PREFERRED**, for which no additional charges apply.

**NEW MARKING FOR BRANDED LID:**

**Initiation Charge** - 2-002; charge per Item Printed - 2-006.

**NEW MARKINGS FOR DEFORMABLE OPERATING ELEMENT AND ESCUTCHEON PLATE:**

**Initiation Charge** - 2-003; no charge Per Item Printed.

**EXISTING MARKINGS FOR BRANDED LID:**

**Setup Charge** - 2-009 per order; charge per Item Printed - 2-006.

**STANDARD DEFORMABLE OPERATING ELEMENT MARKING:**

This refers to the Operator Instructions to "Press Here" in various languages along with standard graphics. These are **PREFERRED** Markings so no additional charge is made.

**STANDARD GLASS MARKING:**

This refers to the Operator Instruction to "BREAK GLASS - Press Here" in various languages along with standard graphics. These are **PREFERRED** Markings so no additional charge is made.

**BRANDED GLASSES** refers to the printing of corporate information on the glass.

**NEW BRANDED GLASSES:**

**Initiation Charge** - 2-005; no other additional charges apply.

**TRANSPARENT HINGED COVER PRINTING**

**NEW PRINTING**

**Initiation Charge** - 2-002; charge per Item Printed - 2-006.

**EXISTING PRINTING**

**Setup Charge** - 2-009 per order; charge per Item Printed - 2-006.

**ESCUTCHEON PLATE PUNCHING**

**NEW PUNCHINGS**

**Initiation Charge** - 2-004; no charge for punching.

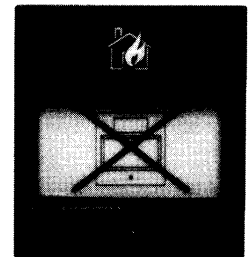
**EXISTING PUNCHINGS**

**Setup Charge** - 2-008 per order; no charge Per Item Punched. Details of available **PREFERRED** Punchings are available on request.

**GS (Glass Substitute) ELEMENT**

By adding '/GS' to the Model Reference, the Call Point is provided with a rigid plastic GS ELEMENT that serves as a temporary substitute for the Glass Operating Element while the Call Point is in transit and until the System is handed over. Such a Call Point can be operated with the test key.

**PRICE:** This reduces the price of the Call Point by 2-010.



WR2001/GS-HOUSE FLAME

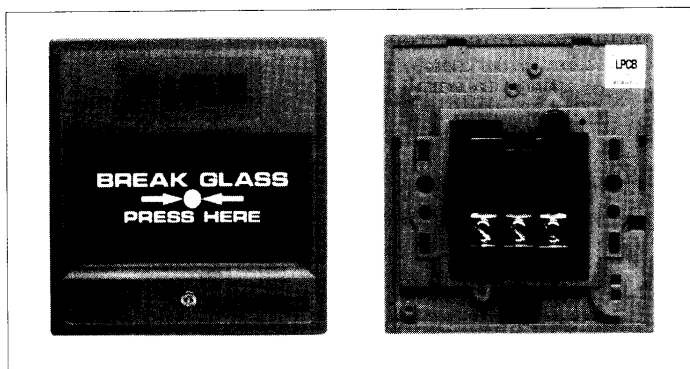
**BRANDING NOTE:**

**AVOIDING TELEPHONE NUMBERS AND THE PROPOSED REQUIREMENTS OF EN54:PART 11**

Change to the Copy of any item requires that it be totally replaced by an alternative that must be costed as a **NEW** Item. For this reason the inclusion of Telephone Numbers in Copy is not recommended.

The current draft of the CEN Standard for Call Points, EN54:Part 11, proposes to permit graphics, as on GL532, and will additionally permit "Wording to help Operator Understanding", plus "reference to EN54:Part 11". As reference to EN54:Part 11 cannot yet be marked on the Glass, the Part Number of the glass is printed on it in order to readily identify that the Glass is fitted, in its correct orientation, in the Call Point. It should be borne in mind that the current draft of EN54:Part 11 proposes to restrict the space that

## CLASS 2000 - TRADITIONAL AND CONVENTIONAL



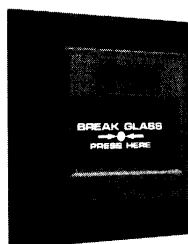
Class 2000 Models are "Traditional", in that the Installer Terminals are of the traditional style on the rear of the Call Point, and are for "Conventional", rather than "Analyse/Addressable" applications.

There are more model variants of Class 2000 Models than of any other Class. Some of the more widely used types are described below in Fire Alarm Form. Those for Special Application Switching duties are dealt with on the following page.

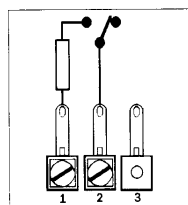
CLASS 2000 Models are fitted with switch type Indoor.

### CLASS 2000 FIRE ALARM MODELS FOR INDOOR USE

Models described, and prices referred to on this page, are in "call point only" form; that is, without mounting box. Such call point fronts will fit "directly" to a flush fitted UK General Purpose Installation (GPI) box as illustrated on page 4, or to GPI boxes of other territories of similar dimensions and having compatible fixing holes. Such a call point front can be fitted "indirectly" to many other types of flush mounted boxes using CLASS 3000 products described on page 6.



A call point with ETT/3 + BEZEL 3 fitted to the rectangular backbox of a no longer manufactured call point. This box is illustrated right.

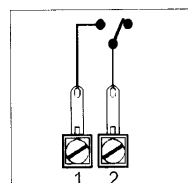


#### WR2072 + END CODE 3-019 WITH MONITORING RESISTOR

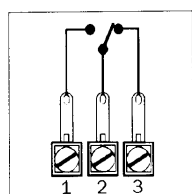
For normally open circuit use only with a 1.0 Watt monitoring resistor. This model can only be connected with the resistor in circuit.

Model Example: WR2072-470

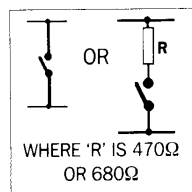
This would have a 470Ω 1.0 Watt resistor.



#### WR2101 3-020 SINGLE POLE, NORMALLY OPEN ONLY, CLOSING ON ALARM.



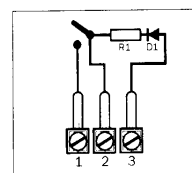
#### WR2001 3-015 SINGLE POLE CHANGEOVER



#### WR2012 3-016

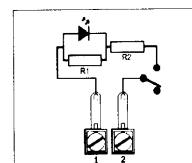
**THE RETROFIT:** This is a useful "van stock" item. It can be used in a basic normally open system or in a normally open system requiring either a 470Ω or a 680Ω resistor.

The "snap on" Terminal Cover is supplied loose enabling the engineer to cut off and discard the unwanted components before fitting the Cover and installing the Call Point.



#### WR2013 3-017

**SAV-WIRE** Model; so called as it is designed for use with the two wire SAV-WIRE system of Protector Alarm Systems Ltd. A SAV-WIRE model is fitted with a 0.5 Watt 470Ω resistor and a diode IN4004.



#### WR2061 + END CODE 3-018

##### LED MODEL

Resistors R1 and R2 must be selected by the equipment manufacturer in order to ensure that the Call Point is compatible with the control equipment. The **END CODE** of the Model Reference specifies the values of the resistors in ohms. The resistors are 0.5 Watt. R2 is current limiting, R1 is to ensure that the Call Point functions if the LED fails, to open circuit.

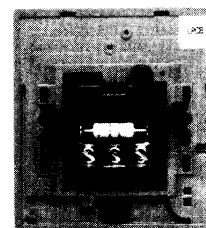
#### OTHER ITEMS - further details on request

#### Model WR2004 3-021

**THE FRENCH CALL POINT** - providing, in a single Model, a Call Point suitable for:

1. a simple normally open system,
2. a normally open system requiring a 910Ω 2.0 Watt monitoring resistor, and
3. a normally closed system.

These variations are achieved by selecting alternative terminals. For normally closed circuit use the resistor is removed and discarded.



Rear view of Model WR2004/G

#### THE FRENCH CLAWS

These enable CLASS 2000 call points to fit to the type of 60mmØ mounting box widely used in France. Call points can be ordered fitted with these Claws by adding '/G' to the Model Reference: example WR2004/G-MF\*.

Price Code 3-030.

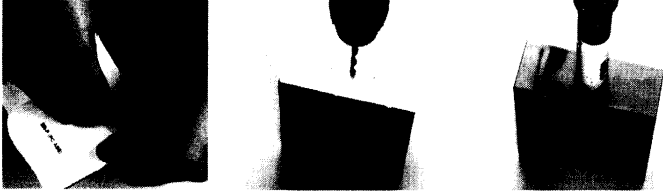
\* -MF refers to the marking Marquage Français - see French language KAC publication LIT:108

Claws can be supplied in packs, for self fitting - Order Reference P 040 - price 3-031 per pack of a set of Claws.

# CLASS 2000 - FIRE ALARM MODELS FOR INDOOR USE..... Continued.

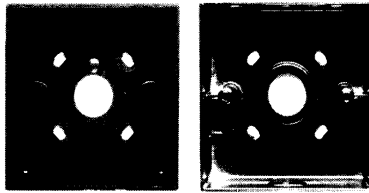
## SURFACE MOUNTING BOXES - there is a choice of either plastic or metal.

PLASTIC BOX 'SR' (Surface Red) is of the same material as the Call Point. Box SR has plain sides but cable entry holes are easily cut using the Hole Cutting Template provided on every pack box.



Use of Hole Cutting Template

METAL BOX 'MR' (Metal Red) is pressure die-cast in a zinc based alloy and epoxy powder coated to match the Call Point colour. Four 20mmØ cable entry holes are provided, these being fitted with plastic hole stoppers.



Box 'SR'

Box 'MR'

Both classes of boxes are provided with a 20mmØ entry hole on the rear, and fixing holes compatible with a small circular U.K. BESA Box.

Both types have the same external dimensions; 87mm square x 32mm deep.

## THE CALL POINT PATTRISS

The Call Point Pattress is designed for use with wiring systems that enter the device directly, without the use of bulky terminations.

In a Pattress model reference the third letter specifies the colour. In a red model this is 'R'.

The Pattress is 87mm square and 23mm deep.

## CABLE ENTRY:

Locally thinned wall sections are provided both in the top and the bottom of the pattress. The installer can easily cut these away to provide the required cable access. These thinned sections are designed to accept either one or two circular plastic sheathed cables of the order of 8mm diameter but can easily be enlarged.

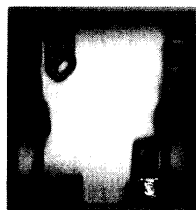
The Pattress is more fully described in Literature item LIT:120.

## THE PROVISION OF EARTH TERMINALS:

Box 'MR' is provided with the means to assemble an Earth Terminal. A single fixed terminal can be provided in Box 'SR' by adding '1T' to the model reference making it 'SR1T'. Pattress reference 'PTR' describes a basic Red Pattress without an earth terminal. Pattress 'PTRE', illustrated above, is provided with an earth terminal.



A call point, surface mounted on a Pattress, wired to two fire resistant cables to BS7629



A view of Pattress PTRE. The 'E' specifies the earth terminal

## Ordering Surface Mounting Boxes and Pattresses individually:

- Box 'SR' 4-062
- Box 'SR1T' 4-064 with earth terminal
- Box 'MR' 4-065
- Pattress 'PTR' 4-066
- Pattress 'PTRE' 4-067 with earth terminal

## CALL POINTS COMPLETE WITH SURFACE MOUNTING BOXES AND PATTRISSES.

Complete with Surface Red Plastic Box add '/SR' to the Call Point Reference and add price 4-062 to the CALL POINT ONLY Price.

Complete with Surface Red Plastic Box with earth terminal add '/SR1T' to the Call Point Reference and add price 4-064 to the CALL POINT ONLY Price.

Complete with Metal Red Surface Box add '/MR' to the Call Point Reference and add price 4-065 to the CALL POINT ONLY Price.

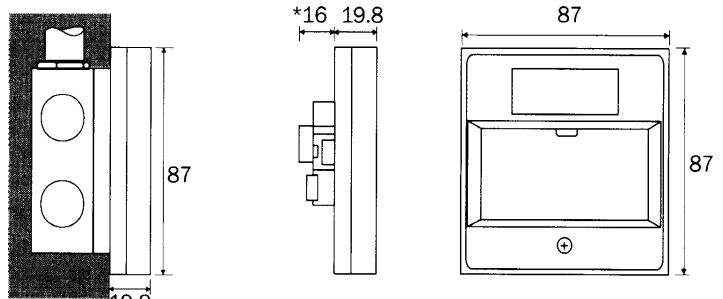
Complete with basic Red Pattress add '/PTR' to the Call Point Reference and add price 4-066 to the CALL POINT ONLY Price.

Complete with Red Pattress with earth terminal add '/PTRE' to the Call Point Reference and add price 4-067 to the CALL POINT ONLY Price.

## DIMENSIONS OF CLASS 2000 MECHANICAL PACKAGE

All dimensions except \* apply to the CLASS 3000 mechanical package and indoor CLASS 5000 models. Dimensions are in millimetres.

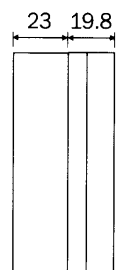
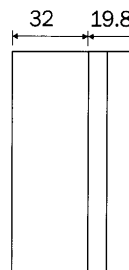
The fixing holes of the Call Point Front are 4mmØ, countersunk, at 60mm centres



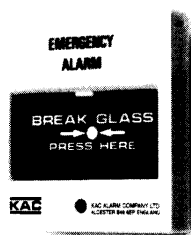
A Call Point on a UK GPI Box as is used for a socket outlet.

Side view of WR2012 & WR2072. On WR2001, WR2013, WR2061 & WR2101 \* is 13mm. On WR2004 \* is 16mm.

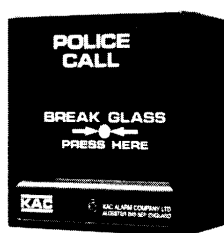
Front view



## CLASS 2000 - SPECIAL APPLICATION MODELS FOR INDOOR USE



Special Application CALL POINT ONLY,  
Model WW2001-EMERGENCY ALARM.



Model, complete with Surface Plastic  
Mounting Box, WB2001/SB-POLICE CALL.

These Models are manufactured in the colour options listed in the Table below, in single pole changeover switching configuration '2001'. Other model configurations can be provided to special order.

The references of the various model options are tabulated below, surface mounting boxes and pattresses can be ordered individually as detailed below:

COLOUR	WHITE	YELLOW	BLUE	GREEN
<b>Call Point only:</b> 5-070	WW2001	WY2001	WB2001	WG2001
<b>With Basic Surface Plastic Box:</b> 5-071	WW2001/SW	WY2001/SY	WB2001/SB	WG2001/SG
<b>With Surface Plastic Box with earth terminal:</b> 5-072	WW2001/SW1T	WY2001/SY1T	WB2001/SB1T	WG2001/SG1T
<b>With Surface Metal Box:</b> 5-073	WW2001/MW	WY2001/MY	WB2001/MB	WG2001/MG
<b>With Basic Pattress</b> 5-074	WW2001/PTW	WY2001/PTY	WB2001/PTB	WG2001/PTG
<b>With Pattress with Earth Terminal</b> 5-075	WW2001/PTWE	WY2001/PTYE	WB2001/PTBE	WG2001/PTGE

### PLASTIC BOXES

SW - Surface White  
SY - Surface Yellow  
SB - Surface Blue  
SG - Surface Green  
Price 5-076

*If an earth terminal is required add '1T' to the reference, example 'SW1T'.  
Price 5-077 for the complete box.*

### METAL BOXES

MW - Metal White  
MY - Metal Yellow  
MB - Metal Blue  
MG - Metal Green  
Price 5-078

### PATTRESSES

PTW - White  
PTY - Yellow  
PTB - Blue  
PTG - Green  
Price 5-079

*If an earth terminal is required add 'E' to the reference, example 'PTWE'.  
Price 5-080 for the complete pattress.*

### FUNCTION MARKING

The required Function Marking must be specified for Call Points for Special Applications - see MARKING AND PUNCHING on Page 2.

**PREFERRED** FUNCTION MARKINGS, for which no additional charge is made, are provided on high quality labels which are carried in stock and fitted at the point of manufacture. A selection is listed here, a full list will be provided on request.

PRINTED FUNCTION MARKINGS, **NEW** and **EXISTING** are printed directly onto the Call Point moulding. These are in white on red, green and blue models, and black on white and yellow models.

#### BLACK on WHITE

EMERGENCY  
ALARM  
POWER  
SUPPLY

#### BLACK on YELLOW

EXTINGUISHANT  
RELEASE  
EMERGENCY  
GAS OFF

#### WHITE on BLUE

EMERGENCY  
DOOR  
RELEASE  
POLICE  
CALL

#### WHITE ON RED

EMERGENCY STOP  
FIRE ALARM

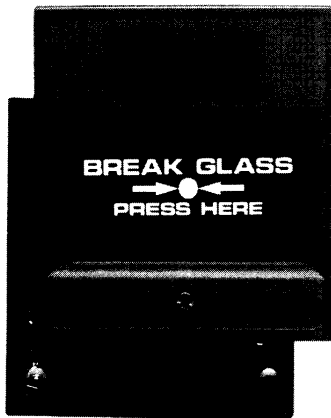
#### WHITE ON GREEN

EMERGENCY DOOR  
RELEASE  
EMERGENCY EXIT

## CLASS 3000 INSTALLERS' MODELS

### FIRE ALARM MODELS FOR INDOOR USE

CLASS 3000 Models and accessories are only listed in Fire Alarm form. Special Application Models can be made to special order - price details will be provided on request.



There are two classes of "Components" of CLASS 3000 Models; the "STATIC", or Wall Mounting Component on which the Installer Terminals are provided, and the "CALL POINT FRONT".

#### STATIC COMPONENTS

For a Surface Installation, first and second fix requires Box as 'SR3T' or a Pattress as PTR2TE.

A Flush Installation requires either of the Terminal Trays ETT/1 or ETT/2, or ETT/3 + Bezel 3. These provide the installer terminals and a mechanical interface with various types of General Purpose Installation (GPI) boxes of the World.

#### CALL POINT FRONTS

The final installation stage requires the appropriate Model of CLASS 3000 Call Point Front.

Alternatively, the Call Point Front may be a Call Point Assembly as provided by a manufacturer of Analogue/Addressable fire detection systems.

CLASS 3000 Models are fitted with switch type Indoor.

#### CALL POINT FRONTS:

The electrical connections are brought out on flying leads and are fitted with Fork Terminations compatible with the Terminal Assemblies in the Static Component.

For circuit diagrams and more detailed technical data, see information provided for CLASS 2000 Model equivalents on Page 3. For example, the electrical details of model WR3061 are the same as for model WR2061.

**WR3001** 6-081  
SINGLE POLE CHANGEOVER

**WR3013** 6-082  
SAV-WIRE Model

**WR3061 + END CODE** 6-083  
LED MODEL

**WR3072 + END CODE** 6-084  
WITH MONITORING RESISTOR

**WR3101** 6-085  
SINGLE POLE, NORMALLY OPEN ONLY,  
CLOSING ON ALARM.

#### STATIC COMPONENTS FOR SURFACE MOUNTING:

##### SURFACE MOUNTING BOXES

**SR3T** 6-091

**3 Terminals**

This Box is based on Surface Mounting Box 'SR'. The '3T' denotes 3 Installer Terminals.

##### ALTERNATIVE SURFACE MOUNTING BOXES

**SR2T** 6-092

**2 Terminals**

**SR4T** 6-093

**4 Terminals**

#### PATRESSES

**PTR2TE** 6-094

The Pattress is described on Page 4 as a means to surface mount a CLASS 2000 Call Point. PTR2TE is the principal model of Pattress for use with a CLASS 3000 Call Point Front. The '2TE' denotes 2 installer terminals and an earth terminal.

##### ALTERNATIVE PATRESSES

**PTR2T - 2 Installer Terminals Only** 6-095

**PTR3T - 3 Installer Terminals** 6-096

**PTR3TE - 3 Installer Terminals + Earth Terminal** 6-097

*PTR3TE is provided with terminal washers for use with the site fitting of components.*

#### STATIC COMPONENTS FOR FLUSH INSTALLATIONS:

##### TERMINAL TRAYS ETT/1 & ETT/2

**ETT/1** 6-099

Without "Grip Forks".

**ETT/2** 6-100

With "Grip Forks" compatible with a 60mmØ box as used in France.

These, along with optional Bezels BZR/2 (red) and BZB/2 (black), are illustrated on Pages 6 and 7 of KAC Publication LIT:101. These bezels are dealt with on page 15 of this document.

#### ETT/3 + BEZEL 3

Terminal Tray ETT/3 is designed to fit to the relatively large general purpose installation boxes as used in Italy, South Africa, Australia, the USA and Canada. As ETT/3 is larger than a CLASS 3000 Call Point Front, BEZEL 3 must be used in all cases. Additionally, ETT/3 can be fitted to the rectangular backbox of a no longer manufactured call point. Further information is provided in KAC Document LIT:112.

#### SINGLE PRODUCT PACKS TB16 & TB17

6-105

**TB16** - provides Black Bezel BZB/3

**TB17** - provides Red Bezel BZR/3

Each contains 1 - ETT/3 and 1 - BEZEL 3, along with various fixing screws including 4 - 4BA X 5/8" cheese head screws compatible with the rectangular call point backbox referred to above.

#### MULTI PRODUCT PACKS TB18 & TB19

6-106

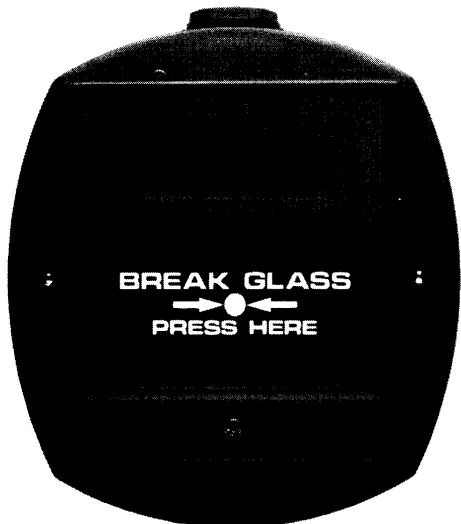
**TB18** - provides Black Bezel BZB/3

**TB19** - provides Red Bezel BZR/3

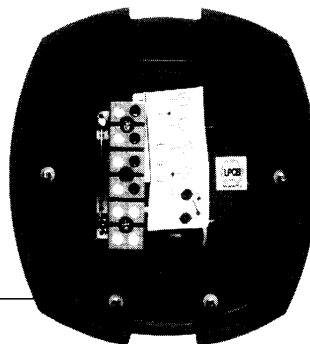
Each comprises twin packs; 1 pack containing 10 - ETT/3 and 1 pack containing 10 - BEZELS 3. This arrangement is so that the pack containing the Bezels can be placed on one side until they are required, along with the appropriate Call Point Fronts. The 4BA cheese head screws are not provided and if required should be ordered separately - Order Code SC053 for a pack of 100 screws; price 6-107 per pack.

## CLASS 4000 SPECIAL ENVIRONMENT MODELS - Ingress Protection IP67 WATERPROOF FIRE ALARM MODELS

These call points provide a terminal enclosure sealed to IP67 and employ a sealed switch which also has a rating of IP67. An illustration of the switch is provided on Page 4 of KAC Publication LIT:101.



The 'O' Ring that effects the seal between the back box and the waterproof cover.



### THE WATERPROOF COVER

In this inside view, the flying leads of the sealed switch are seen entering the terminal enclosure; the entry hole is sealed with two part epoxy resin. The 2.5 Watt resistor (Model WR4072) can be seen fitted to the non-user side of the terminal block.

### THE BACKBOX

This is provided with two 20mmØ threaded cable entry holes; one is fitted with a removable stopper.

**WR4001** 7-111  
SINGLE POLE CHANGEOVER

**WR4013** 7-112  
SAV-WIRE Model

**WR4061 + END CODE** 7-113  
LED MODEL

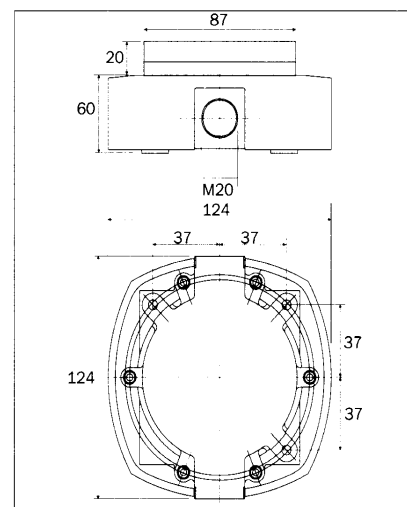
**WR4072+ END CODE** 7-114  
WITH 2.5 WATT MONITORING RESISTOR

For circuit diagrams and more detailed technical data, see information provided for CLASS 2000 Model equivalents on Page 3. For example, the electrical details of WR4061 are the same as for WR2061.

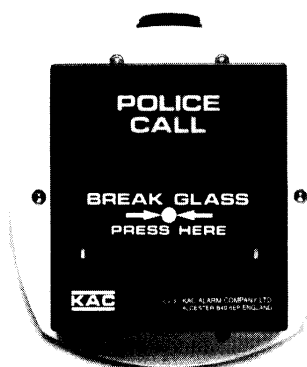
### MECHANICAL DATA

Nominal dimensions of CLASS 4000 call points in millimetres.

The diagram right shows the locations of the three 5mmØ fixing holes.



## WATERPROOF SPECIAL APPLICATION CALL POINTS



CLASS 4000 Call Points are manufactured in White and Yellow for non fire alarm "Special Applications".

Demand does not justify the manufacture of Blue and Green Models, but as can be seen from the Table, White Models are manufactured with alternatively Blue or Green lids.

Only Models of configuration 4001, single pole changeover, are listed. Other model types can be manufactured to special order.

The arrangements for Function Marking is as for CLASS 2000 Special Application Models.

COLOURS	WHITE	YELLOW	WHITE WITH BLUE LID	WHITE WITH GREEN LID
REFERENCES	WW4001	WY4001	WW-B4001	WW-G4001

Examples of complete Model References:  
**WW4001-EMERGENCY ALARM**  
**WW-B4001-POLICE CALL**

**PRICE:** 7-120 - all Listed Models

## CLASS 4000..... Continued.

### MODELS CERTIFIED TO BRITISH STANDARDS APPROPRIATE TO HAZARDOUS AREAS

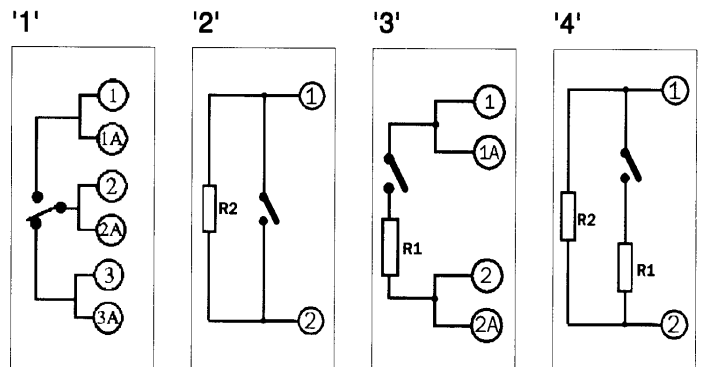
Very important conditions apply to the selection and application of these Call Points and the responsibility that these conditions are met is placed on the Installer. The specification of the Call Point must not be changed in any way. KAC's Technical Department will be pleased to advise on matters relevant to the application of these Call Points.

On those Models that are fitted with monitoring or end of line resistors, the resistors are encapsulated in two part epoxy resin and cannot later be changed. They are manufactured to order and once manufactured cannot be returned for credit or exchange. The fitting of resistors by the Installer would be a serious infringement of the Certification.

There are two groups of these models, each group having four electrical variants. These have model references in the styles:

<b>WRZ2/4000</b>		and	<b>WRD/4000</b>	
Certified to BS4683:			Certified to BS6467:	
Part 3:1972			Part 1:1985	
Code Ex N II T6				
- Flammable Gas -			- Flammable Dust -	
Single Pole Changeover - Diagram '1'.				
<b>WRZ2/4001</b>	8-141	<b>WRD/4001</b>	8-141	
Normally open, closing on alarm, fitted with End of Line (E.O.L.) Resistor of the ohmic value of "R2" - Diagram '2'.				
<b>WRZ2/4002-R2</b>	8-142	<b>WRD/4002-R2</b>	8-142	
<i>Example: WRZ2/4002-4700 is fitted with a 4K7Ω E.O.L. Resistor.</i>				
Normally open, closing on alarm, fitted with a Monitoring Resistor of the ohmic value of "R1" - Diagram '3'.				
<b>WRZ2/4072-R1</b>	8-143	<b>WRD1/4072-R1</b>	8-143	
<i>Example: WRD1/4072-680 is fitted with a 680Ω Monitoring Resistor.</i>				
Normally open, closing on alarm, fitted with a Monitoring Resistor of the ohmic value of "R1" and an End Of Line Resistor of the ohmic value "R2" - Diagram '4'.				
<b>WRZ2/4010-R1-R2</b>	8-144	<b>WRD/4010-R1-R2</b>	8-144	
<i>Example: WRZ2/4010-470-2200 is fitted with a 470Ω Monitoring Resistor and a 2K2Ω E.O.L. Resistor.</i>				

Circuit Diagrams referred to left:



### CALL POINTS AS SIMPLE APPARATUS IN INTRINSICALLY SAFE (I.S.) SYSTEMS

If the Certificate of an I.S. System permits the use of Simple Apparatus, then many Call Points of the World Series may be installed in that system. KAC's Technical Department will be pleased to advise on matters relevant to the application of these Call Points.

## CLASS 5000 - PANEL MOUNTING

Typical applications for CLASS 5000 Models are illustrated on Page 5 of KAC Publication LIT:101.

Of the four listed Model Types, all are available in Fire Alarm

and Special Application form; see table under CLASS 2000 - SPECIAL APPLICATION MODELS FOR INDOOR USE on Page 5 for details of Colour References.

**FOR INDOOR USE:** There are two Listed Model Types. These are fitted with Switch Type "Indoor" and are provided with flying leads 16/0.2mm, 600mm long.

**FOR USE IN SPECIAL ENVIRONMENTS:** There are two Listed Model Types, these being fitted with Switch Type "Waterproof" which is sealed to IP67.

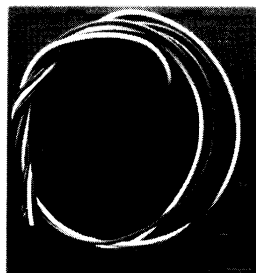
The connecting cables are 256/0.05mm, 600mm long. Both Model Types provide Single Pole Changeover Switching.

### SINGLE POLE CHANGEOVER

Fire Alarm Model  
**WR5001** 8-151

Special Application Model  
Example:

**WY5001-EXTINGUISHANT  
RELEASE** 8-152

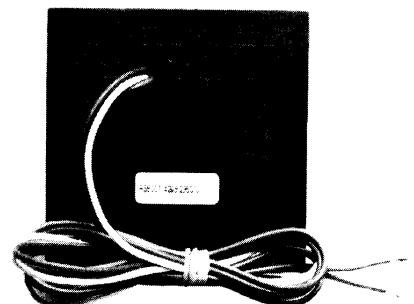


Rear view of WR5001

### BASIC WATERPROOF TYPE

Fire Alarm Model  
**WR5007** 8-154

Special Application Model  
Example: **WB5007-  
EVACUATE** 8-155



### NORMALLY OPEN ONLY, CLOSING ON ALARM

Fire Alarm Model  
**WR5101** 8-153

## CLASS 5000 - PANEL MOUNTING..... Continued.

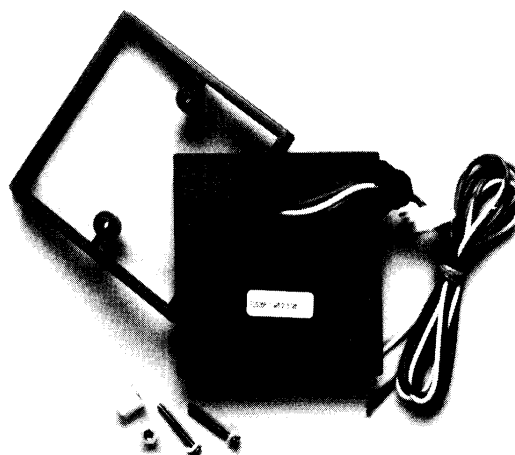
### WATERPROOF TYPE DESIGNED FOR EASY FITTING.

The flying leads are potted in an M16 bush which is provided with a nut and sealing washer. Two blind threaded spacers and countersunk screws are provided for Call Point fixing purposes. This greatly simplifies the task of preserving the waterproof integrity of the panel. A Spacer Piece is supplied to provide clearance for the cable entry arrangement.

**Fire Alarm Model WR5068** 9-156

### Special Application Model

**Example: WB5068-EVACUATE** 9-160



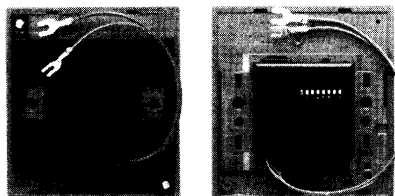
## CLASS 6000 - FOR ADDRESSABLE MODELS

The term "Call Point Assembly" is used to describe a call point equipped with an electronic interface, or address board, as is required when part of an analogue addressable alarm system. CLASS 6000 Models are designed to form the basis of such call point assemblies.

Although Model examples are listed below, most CLASS 6000 Call Points that are supplied, are designed and manufactured to meet the specific requirements of the particular Alarm Equipment Manufacturer to whom they are supplied.

CLASS 6000 Models are provided in one of three mechanical packages. The style of the Model Reference indicates the particular mechanical package:

**As WR6001** -  
Indoor package.



Two examples of Call Point Assemblies employing the Indoor package.

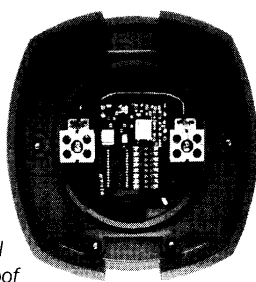
**LEFT:** With Small Address Board Cradle - SABC.

**RIGHT:** With Miniature Address Board Cradle - MABC.

**As WR6001W** - Waterproof package, terminal enclosure sealed to IP67 with switch type Waterproof, also sealed to IP67.

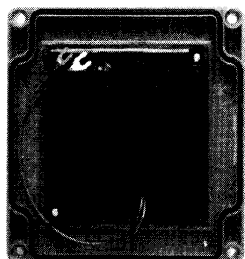
Only Address Boards of dimensions compatible with an MABC can be accommodated within these Models.

Inside view of the waterproof cover of a Call Point Assembly in a CLASS 4000 waterproof package. The address board is housed in a Waterproof Address Board Cradle - WABC.



**As WR7/6001** - Rainproof package with switch type Indoor.

**As WR7/1001** - Rainproof package with switch type Waterproof, sealed to IP67.



CLASS 6000 Models are generally only listed in Fire Alarm form. They can be supplied in Special Application Model form, details will be provided on request.

**Basic Model, no LED. Three cables connect with single pole changeover switch contacts.**

**WR6001** - Indoor Model 9-165

**WR6001W** - Waterproof Model 9-166

**WR7/6001** - Rainproof Model with switch type Indoor 9-167

**WR7/1001** - Rainproof Model with switch type Waterproof 9-168

**Four Cable Model; two to normally open closing on alarm switch contacts and two to LED.**

**WR6618** - Indoor Model 9-170

**WR6618W** - Waterproof Model 9-171

**WR7/6618** - Rainproof Model with switch type Indoor 9-172

For Rainproof Model with switch type Waterproof see WR7/1061 below.

**Five Cable Model; three to single pole changeover switch contacts and two to LED.**

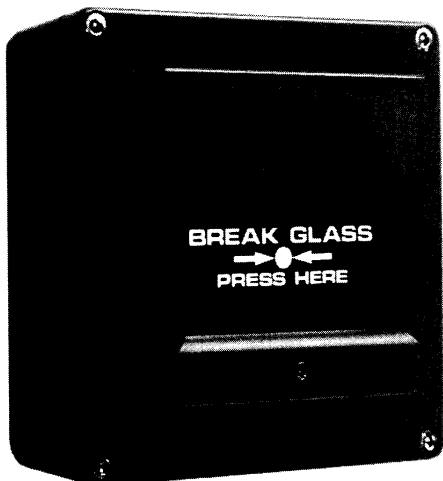
**WR6630** - Indoor Model 9-180

**WR6630W** - Waterproof Model 9-181

**WR7/6630** - Rainproof Model with switch type Indoor 9-182

**WR7/1061** - Rainproof Model with switch type Waterproof 9-183

## CLASS 7000 - RAINPROOF MODELS



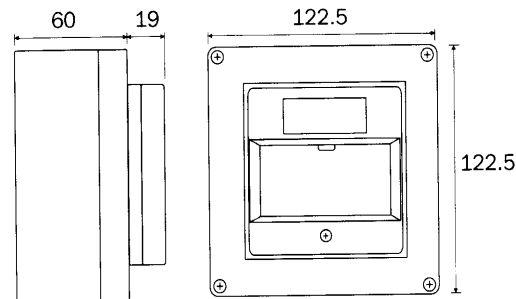
The CLASS 7000 Mechanical Package provides Ingress Protection IP65 for the Terminal Enclosure and IP55 for the switch. Listed models are fitted with switch type 'indoor'. Switch type 'waterproof' can be fitted as in model WR7/1001 for addressable use.

There are CLASS 7000 Rainproof Model equivalents of most CLASS 2000, 3000 and 6000 Models of the World Series. CLASS 7000 model references are formed by adding "7/" to the reference of the corresponding indoor model as illustrated in the tables below.

Literature item LIT:113, dated April 1997 provides additional information.

ELECTRICAL DATA is generally as CLASS 2000 Models.

The integrity of the Terminal Enclosure employs a tongue and groove system with a neoprene sealing gasket.

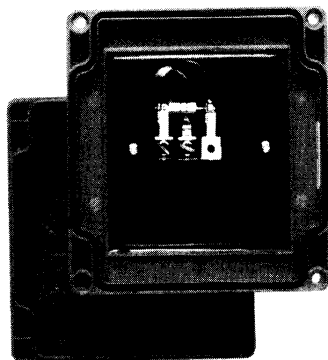


External Dimensions of CLASS 7000 Call Points in millimetres.

## CLASS 7000 FIRE ALARM MODELS

### MODELS COMPATIBLE WITH THOSE OF CLASS 2000:

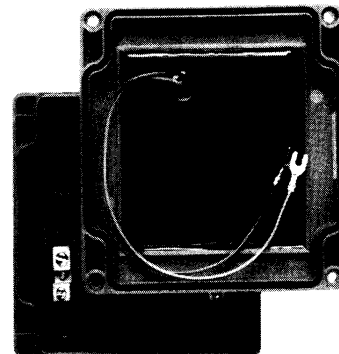
A terminal assembly is provided, similar to that of CLASS 2000 Models. Components such as resistors are fitted as in the illustrated example and the rear of LED's are encapsulated in two part epoxy resin.



Model WR7/2072-470  
- the equivalent of CLASS 2000 Model WR2072.

### MODELS COMPATIBLE WITH THOSE OF CLASS 3000:

As can be seen from the example illustrated right, the arrangements for connecting and testing the system wiring are similar to that of CLASS 3000 Models.



Model WR7/3101  
- the equivalent of CLASS 3000 Model WR3101.

CLASS 7000 REFERENCES	CORRESPONDING CLASS 2000 MODELS	PRICE CODES
WR7/2001	WR2001	10-191
WR7/2061-120-470	WR2061-120-470	10-192
WR7/2072-470	WR2072-470	10-193

CLASS 7000 REFERENCES	CORRESPONDING CLASS 3000 MODELS	PRICE CODES
WR7/3001	WR3001	10-194
WR7/3061-120-470	WR3061-120-470	10-195
WR7/3072-470	WR3072-470	10-196

## RAINPROOF SPECIAL APPLICATION CALL POINTS

CLASS 7000 Call Points are manufactured in White and Yellow for non fire alarm "Special Applications".

Demand does not justify the manufacture of Blue and Green Models, but as can be seen from the Table,

White Models are manufactured with alternatively Blue or Green lids.

Only Models of configuration 7/2001, single pole changeover, are listed. Other model types can be manufactured to special order.

The arrangements for Function Marking is as for CLASS 2000 Special Application Models.

Examples of complete Model References:

**WW7/2001-EMERGENCY ALARM**  
**WW-B7/2001-POLICE CALL**

**PRICE:** 10-200 - all Listed Models

COLOURS	WHITE	YELLOW	WHITE WITH BLUE LID	WHITE WITH GREEN LID
	WR7/2001	WR7/2001	WR7/2001	WR7/2001

## CLASS 9000 - CALL POINTS FITTED WITH VARIOUS TYPES OF SWITCHING DEVICES

A variety of Switching and Indicating devices can be housed in the CLASS 9000 Mechanical Package.

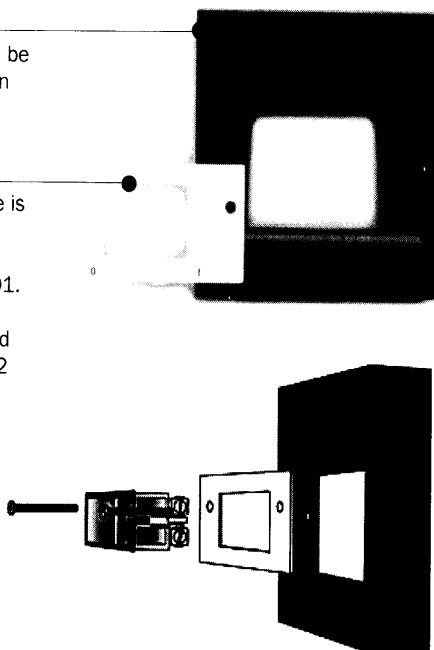
There are two injection moulded components that are dedicated to the CLASS 9000 Package; due to its compatibility with other products and accessories of The World Series, the facilities provided are extensive.

### MAIN MOULDING

Function Markings can be printed as described on Page 2.

### ESCUTCHEON PLATE

The illustrated example is MM490, punched and printed to suit Rockerswitch type 9201. Other **PREFERRED** examples are illustrated below and on Pages 12 and 13.



The Escutcheon Plate, fitted with the Device, snaps into the main Moulding and is held permanently in place by the fixing screws.

Model reference example **'WW9101/SW-EVACUATE'** is constructed as follows:

**'WW'** denotes World Series model in white.

Other colour options are as follows:

'WR' - Red, 'WY' - Yellow, 'WG' - Green and 'WB' - Blue.

Prices are not affected by the choice of colour.

The first numeric digit, '9' denotes a CLASS 9000 model.

The second numeric digit, '1' denotes a Keyswitch.

This is one of the four listed families of switching devices as follows:

- 1 - Keyswitches
- 2 - Rockerswitches
- 3 - Miniature Push Switches
- 4 - Various

The remaining two numeric digits, '01', denote the particular switching device as detailed below.

**'/SW'** denotes the inclusion of surface white mounting box as detailed on pages 4 and 5.

**'EVACUATE'** specifies the function marking as explained on page 2.

**APPROVALS:** No approvals are considered to be appropriate to CLASS 9000 models.

## KEYSWITCHES - Device Family '1'

The keyswitches fitted in the three Listed Models are of the TOK P2 Range from SAIA Burgess Electronics Ltd., of Gateshead, England.

### Contact rating:

2A 250VAC 0.7PF

10A 24VDC Resistive

The connecting cables limit rating to 6.0A.

**TYPE 9101** Key positions two, these marked '1' and '0'. Key removable in both. Key 3FD (TOK 3).

**Price Code:** 11-300

**TYPE 9102** As Type 9101 but key trapped in one position to be specified - 0 or 1. (Position 1 as standard) Key 3FD (TOK 3).

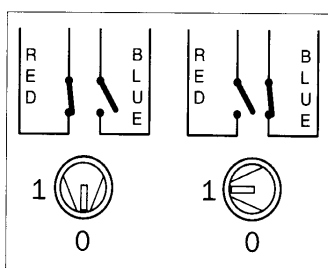
**Price Code:** 11-301

### TYPE 9103 - FIREMAN SWITCH

Three position, key removable in all three. Two pairs of electrically separate contacts; both open in centre position, one closes in each of the other positions.

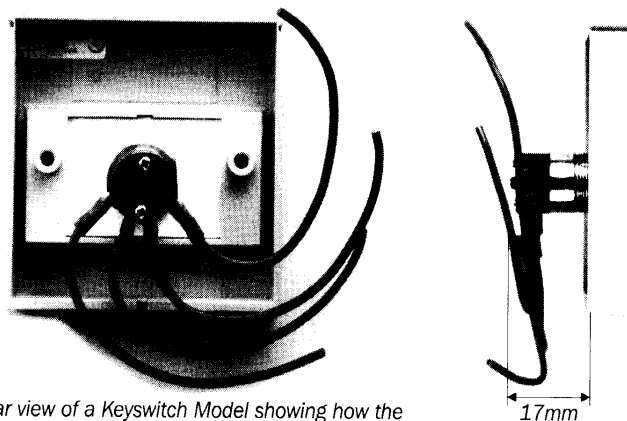
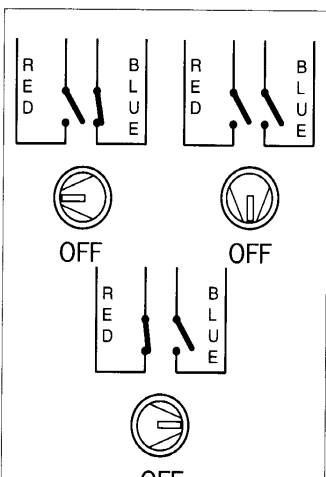
Key 3FB (TOK 1).

**Price Code:** 11-302



**ABOVE:** Contact arrangement on Types 101 and 102.

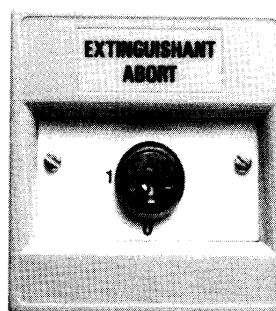
**BELOW:** Contact arrangement on Type 103.



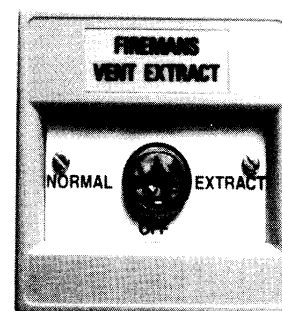
Rear view of a Keyswitch Model showing how the connections are brought out on 32/0.2mm<sup>2</sup> flying leads.

The installer is required to make the required connections and remove the unwanted conductors.

Dimensioned side view of a keyswitch model



Frontal appearance of model WY9101-EXTINGUISHANT ABORT or WY9102-EXTINGUISHANT ABORT



Model WY9103-FIREMANS VENT EXTRACT Escutcheon Plate MM490

## ROCKERSWITCHES - Device Family '2'

The rockerswitches fitted in the three Listed Models are of the 2600 SERIES from APEM Components Ltd., Wellington Street, Thame, Oxfordshire, England.

**Contact rating:**

10A 250VAC Resistive  
16A 24VDC Resistive

**TYPE 9201** Two positions, these marked '1' and '0'. Double pole changeover contacts.

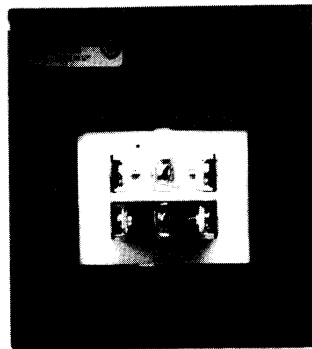
**Price Code:** 12-310

**TYPE 9202** Double pole ON/OFF switch with red 220VAC neon indicator connected across the output terminals.

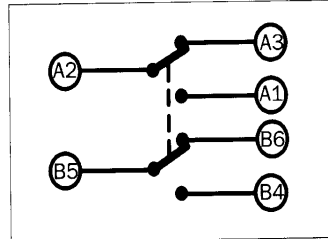
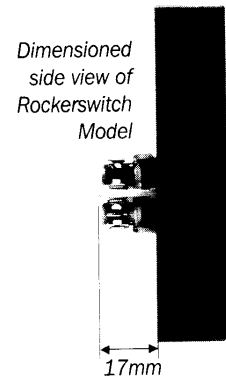
**Price Code:** 12-311

**TYPE 9203** Three positions, marked '0', '1' and '2'. Two sets of three contacts. No inter-contact in centre '0' position, alternate connections made in positions '1' and '2'.

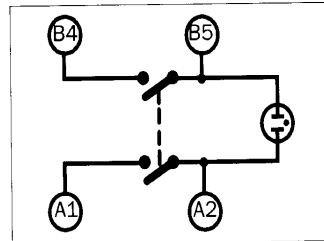
**Price Code:** 12-312



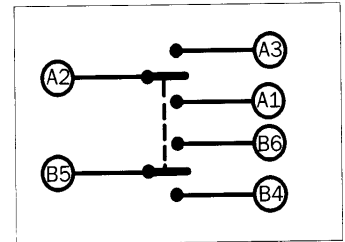
Rear view, showing the screw/clamp terminals to which the installer directly connects the installation wiring



Contact arrangement on Type 9201.



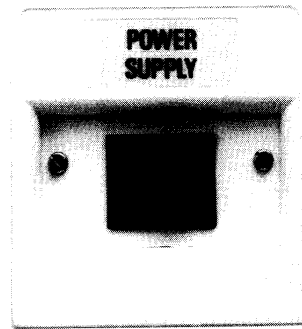
Contact arrangement on Type 9202.



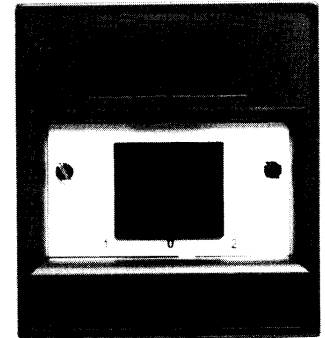
Contact arrangement on Type 9203.



Model WY9201-FIREMAN  
Escutcheon Plate MM490



Model WW9202-POWER SUPPLY  
Escutcheon Plate MM464



Model WR9203-EVACUATE  
Escutcheon Plate MM491

## MINIATURE PUSH SWITCHES - Device Family '3'

The switches fitted in the four Listed models are of the A series of miniature control units from IDEC Ltd., Unit 2, Beechwood, Chineham Business park, Basingstoke, England.

**Contacts:** Double Pole Changeover switching, ratings 0.5A 250VAC, 1.0A 24VDC Resistive.

**The term MOMENTARY ACTION** refers to the contacts transferring only while the button is depressed - like a door bell push.

**The term LATCHING** refers to a push/push action; the contacts transfer when the button is pressed and stay transferred until the button is pressed again.

**The term TERMINATED** refers to a 120mm long 16/0.2mm<sup>2</sup> cable soldered to each of six terminals of the switching device.

**The term NON-TERMINATED** refers to no cables being connected to the terminals of the switching device.

**TYPE 9301** Momentary Action, Non Terminated.

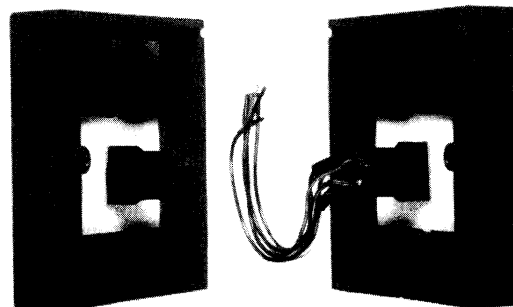
**Price Code:** 12-320

**TYPE 9302** Momentary Action, Terminated.

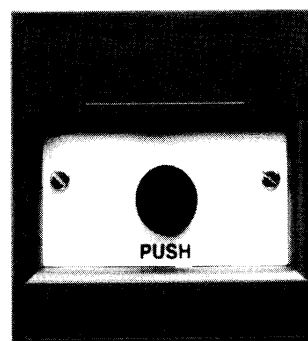
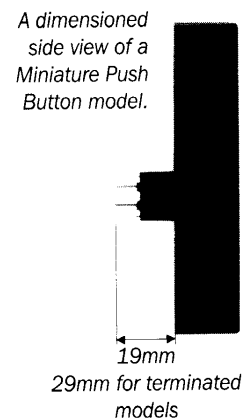
**Price Code:** 12-321

**TYPE 9303** Latching, Non Terminated

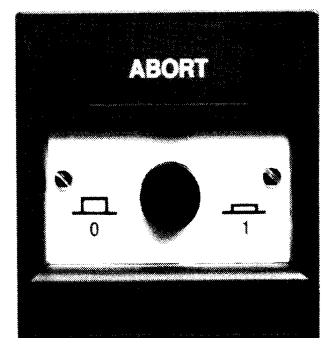
**Price Code:** 12-322



Rear views of:  
a terminated model - right and  
a non-terminated model - left.



MOMENTARY MODEL WG9301 or  
WC9302 PLAIN



LATCHING MODEL WR9303 or  
WR9304-ABORT

## CLASS 9000 .... Continued

### VARIOUS - Device Family '4'

There is currently only one model in this category, TYPE 9401.

**TYPE 9401** is a shrouded push switch, providing single pole changeover switching, momentary action.

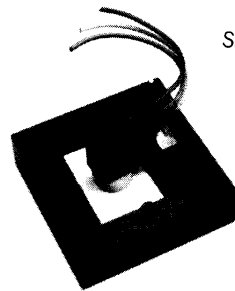
**Contact rating:**

8.0A 250VAC

8.0A 24VDC Resistive

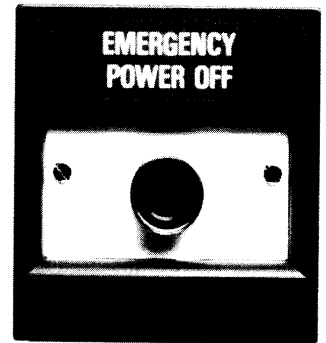
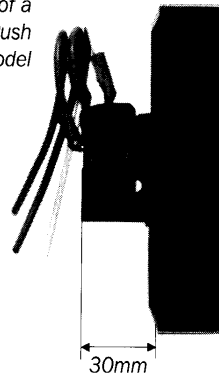
The connecting cables limit rating to 6.0A.

**Price Code:** 13-330



Rear view, showing the 32/0.2mm<sup>2</sup>, 100mm long cables to which the installer makes connections

Dimensioned side view of a Shrouded Push Switch Model



Model  
WR9401-EMERGENCY POWER OFF  
Escutcheon Plate MM494

## ELECTRICAL DATA

**FIRE ALARM MODELS** are not Approvals Listed for use at voltages greater than 50 Volts. However those of configuration 001 and 101 including **SPECIAL APPLICATION MODELS** for example WW2001 can be safely used at mains voltage unless fitted with **GRIP FORKS** - see GRIP FORKS, below.

**GRIP FORKS as required for use with the 60mm diameter mounting box used in France:**

Call Points directly fitted with Grip Forks are considered unsafe with voltages above 50Volts, as they can provide electrical contact with dangerous voltages within the mounting box.

**There are two classes of switches** as far as their electrical characteristics are concerned:  
Switch Type "**WATERPROOF**" and Switch Type "**INDOOR**".

SWITCH TYPE	INDOOR	WATER-PROOF
<b>Maximum Currents:</b>		
50 VDC Resistive	3.0 A	1.0 A
30 VDC Resistive	8.0 A*	5.0 A
30 VDC Inductive	3.0 A	3.0 A
240 VAC	8.0 A*	5.0 A
Maximum Contact Resistance - see NOTE below	0.2Ω	0.15Ω

\* - limited to 3.0 Amps continuous by internal conductors.

**Switch Type WATERPROOF** is sealed by the manufacturer, with the connections in the form of three flying leads. This is fitted in all Call Points of CLASSES 4000, and Models of CLASSES 5000, 6000 and 7000 where this is indicated.

**Switch Type INDOOR** is fitted in all Call Points of CLASSES 2000 and 3000, and Models of CLASSES 5000, 6000 and 7000 where this is indicated.

**The internal connections of all Indoor Models limit current carrying capacity to 3.0 Amps.**

The internal components of some models dictate maximum current and voltage. The contacts of the switches are of fine silver with switching capability as tabulated above.

**NOTE - MAXIMUM CONTACT RESISTANCE**

The values of Maximum Contact Resistance quoted are within the bands of results obtained from the appropriate tests of BS5839:Pt.2. Where relatively small currents are being switched, higher Maximum Resistance values apply.

**LIGHT EMITTING DIODES**

These are High Efficiency 5mm Red, as Hewlett Packard HLMP 3315.

## MECHANICAL DATA

### DIMENSIONS

There are five general families of Mechanical Packages.

**CLASSES 2000 and 3000:** see dimensioned illustrations on Page 4.

**CLASSES 4000:** see dimensioned illustration on Page 7.

**CLASS 7000:** see dimensioned illustrations on Page 10.

**CLASS 9000:** dimensions generally as CLASS 3000.

### MATERIALS

Most of the component parts of Call Points of the World Series and their Accessories are of injection moulded engineering grades of thermoplastic. Most of the main visible parts are of a Polycarbonate/ABS blend; this is referred to as PC/ABS (BAYBLEND FR110, FR1440 from Bayer PLC or CYCOLOY C2950 from G E Plastics Limited). This material is self extinguishing V-0 to U.L. 94.

**SPECIAL ENVIRONMENT PACKAGE:**

**Front Cover Red** - Modified Polyphenelene Oxide (Noryl SE100 from G E Plastics Limited). Other colours are PC/ABS.

**Back Box** - 15% Glass Reinforced Nylon 6.

**Engineering drawings of all Mechanical Packages and Components are available on request; these provide full details of the materials used.**

## ACCESSORIES

The CLASSES of Call Points to which these Accessories are appropriate are indicated by letters as detailed below.

### LETTER PRODUCT GROUP

- A** CLASS 2000  
**B** CLASS 3000  
 + CLASS 5000 and 6000 using the CLASS 3000 mechanical package  
**C** CLASS 4000  
 + CLASS 6000 using the CLASS 4000 mechanical package  
**D** CLASS 5000  
**E** CLASS 7000  
 + CLASS 6000 using the CLASS 7000 mechanical package  
**F** CLASS 9000  
**G** Surface Plastic Boxes

### Examples:

As a Replacement Glass is appropriate to all product groups except CLASS 9000 models, all letters except 'F' and 'G' are displayed against that item.

As Replacement 'O' Ring M063 is only appropriate to Models using the CLASS 4000 Special Environment mechanical package, only 'C' is displayed against that item.

### A B C D E REPLACEMENT GLASS

#### Reference of one glass: KG1

These are supplied in packs of 5, 10, 25 & 50.  
 Example: 4 Packs of 25 KG1 = 100 pieces.

Orders must specify pack size and language.

#### Price per Pack of:

5 - 14-352, 10 - 14-353, 25 - 14-354,  
 50 - 14-355.

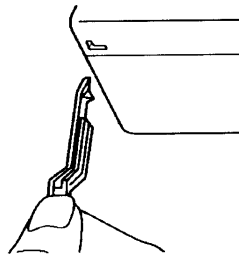


### A B C D E SPARE TEST KEYS

#### Reference SC035

Price 14-356 per pack of 10 Keys

Example: 4 packs of 10 SC035 = 40 test keys.



### A B C D E F TRANSPARENT HINGED COVER - Reference: M298

Price 14-360 each.

Fitting a transparent hinged cover to a call point provides additional protection from accidental operation. The use of the TRANSPARENT HINGED COVER and BREAKABLE COVER SEAL is fully described and illustrated on Page 7 of KAC Publication LIT:101.

#### IMPORTANT NOTE:

All World Series Call Points are equipped to receive a Hinged Cover which is supplied separately and is fitted by the Installer. Previously, a Hinged Cover was a 'Factory Fit' accessory.

### A B C D E KEY SLOT BLANK

#### Reference add 'B' - Example: WR2001/SR/B

- add price 14-363 to Call Point price.

A Call Point fitted with a transparent hinged cover and a breakable cover seal can still be operated using a test key. Fitting a key slot blank prevents this by blanking off the test key facility.

### BREAKABLE COVER SEALS

A Call Point equipped with a Transparent Hinged Cover providing protection against accidental operation, can be afforded extra security by fitting a Breakable Cover Seal. Such a Seal must be broken before the Cover can be raised.

#### A B C D E

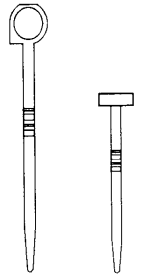
### BREAKABLE COVER SEAL M355

Not suitable for use with CLASS 9000 call points

Price per pack of 5 Seals - 14-361

Example: 4 packs of 5 M355 = 20 seals.

M355 can be used with the previous model of Transparent Hinged Cover for which old Seal M96 was produced but M96 cannot be used with new Cover M298. Seals should not be used on Call Points secured by means of the "French Grip Forks".



M355 M357

#### F

### BREAKABLE COVER SEAL M357

For use only with CLASS 9000 call points

Price per pack of 5 Seals - 14-362

Example: 4 packs of 5 M357 = 20 seals.

#### A B E F G

### CONTINUITY LINK

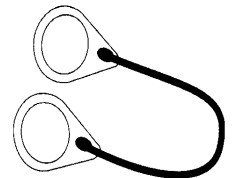
#### Reference KL1

Price per pack of 5 Links

14-365

Example: 4 packs of 5 KL1 = 20 links.

The continuity link provides the means to electrically bond two 20mmØ cable entries.



### REPLACEMENT LIDS

Replacement lids can be supplied in the event of damage or an alternative function marking requirement. The lid for a Call Point employing the Special Environment mechanical package, example a Waterproof CLASS 4000 Model, is longer than those of Indoor Models and is referred to as a "Stretched" Lid.

#### A B D E

Red Lid - Indoor 14-366

Other Colours - Indoor 14-367

Order reference Example: Red Indoor Lid - EVACUATE

#### C

Red Lid - Stretched 14-368

Other Colours - Stretched 14-369

Order reference Example: Red Stretched Lid - FIRE

### BEZELS

As can be seen from the dimensioned illustration near the bottom right of Page 4, a bezel is not normally required in such routine applications. In order to meet a variety of special needs, 3 models of bezels; BEZELS 1, BEZELS 2 and BEZELS 3 are manufactured. These are made in alternatively red or black PC/ABS, matt finish.

BEZELS 1 and BEZELS 2 both extend 9mm beyond the extremity of the call Point.

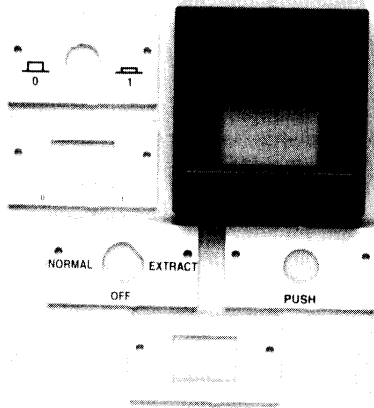
BEZELS 1 distance the Call Point 5.5mm from the wall surface.

BEZELS 2 are principally intended for use with Terminal Trays ETT/1 and ETT/2 as described on Page 7 of KAC Publication LIT:101 where BEZELS 2 are illustrated. A BEZEL 2 can also be useful where there is not sufficient free space in a mounting box to accept a Call Point. It distances the Call Point 13mm from the wall surface, creating a near flush rear profile to a CLASS 2000 Call Point. If used in this manner longer fixing screws would be required - see PACKS OF SMALL PARTS on page 16.

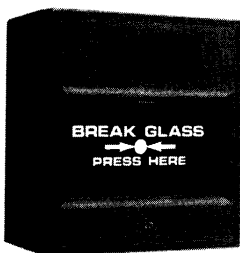
## CLASS 9000 MECHANICAL PACKAGE ONLY

### Components of the CLASS 9000 Mechanical Package

are made available to equipment manufacturers who have a need to package their switching devices. Details of this service will be provided on request.



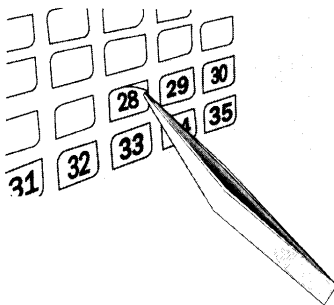
## CALL POINT NUMBERING SYSTEM



This comprises sheets of high quality labels numbered 1 to 150, precision cut to fit in the recessed front of the call point.

Some routine testing procedures for alarm systems require call points be numbered. This system enables this to be easily done without spoiling their appearance.

Reference F247 orders a sheet of labels.  
Price Code 16-401



## PACKS OF SMALL PARTS

This is the term given to the supply of items such as the Terminal Assemblies fitted in Box SR3T and self tapping screws for fixing Address Boards to Call Points. These are made available in packs of 100 or 500 pieces and a full list is available on request. The following are the two most frequently required items:

Spare Lid Fixing Screw - M3 x 16 Countersunk Pozi Stainless Steel.

100 Pack - Ref: SC026	16-451
500 Pack - Ref: SC027	16-452

Overlength Screw, as required for fixing Call Point to box when a Spacer Piece as M141 or Bezel 2 is used - M3.5 x 40 Countersunk Slot Steel, Black Phosphate Finish.

100 Pack - Ref: SC011	16-453
500 Pack - Ref: SC012	16-454

Packs of 100 Screws 4BA X 5/8" are dealt with on Page 6, under Product Packs TB18 and TB19, with which they may be required.

## APPROVALS AND THIRD PARTY TESTING

A copy of the Approvals Register is available on request. This is constantly updated to include the ever growing list of approvals obtained for Call Points of the World Series.

The following are among the products listed by the Loss Prevention Certification Board (LPCB) as complying with BS5839:Part 2:1983:

WR2001 & WR2001/SR, WR2012 & WR2012/SR, WR2061 & WR2061/SR, WR2072 & WR2072/SR, WR2101 & WR2101/SR.

Also Listed are Metal Red Box 'MR', Bezels BZR/1 BZR/2 and BZR/3, Red Spacer Piece M141W and Continuity Link KL1. Pattress models PTR and PTRE are to be submitted for testing November 1998.

*With the exception of Box 'MR', these items may be used with Class 3000 Call Points.*

In addition the following Class 3000 models and accessories are listed;

WR3001, WR3061, WR3072, WR3101 with Boxes SR2T, SR3T, SR4T, and Terminal Trays ETT/1, ETT/2 and ETT/3. Pattress models PTR2TE and PTR3TE are to be submitted for testing November 1998.

WR4001, WR4061, WR4072 and all WRZ2 and WRD models.

The following Rainproof Class 7000 models have been submitted WR7/2001, WR7/2004, WR7/2012, WR7/2061, WR7/2072, WR7/2101, WR7/3001, WR7/3061, WR7/3072, WR7/3101, and test results are due mid December 1998.

The following are among the products listed by the Lloyds Register of Shipping to Environmental Categories ENV1 and ENV2;

WR2001\*, WR2012\*, WR2061\*, WR2072\*, WR2101\*, WR3001, WR3061, WR3072, WR3101.

Hinged Cover, ETT/1, ETT/2, Plastic Mounting Boxes with or without terminals, Metal Mounting Boxes and the Continuity Link.

Those marked \* are also approved in yellow, white, blue and green variations.

The following models are also approved to ENV5;

WR4001#, WR4061#, WR4072#, WRZ2/4001, WRZ2/4002, WRZ2/4010, WRZ2/4072, WRD/4001, WRD/4002, WRD/4010, WRD/4072.

Those marked # are also approved in yellow & white variations.

Products not described in this publication are approved by the Underwriters Laboratory (UL) of the USA to UL38 and by Scientific Services Laboratory (SSL) of Australia to the Australian Call Point Standard AS1603.5-1996.

Details of these products will be provided on request.

## ACCESSORIES ..... Continued.

### A F

**BEZELS 1** - both colours - 15-376

References: **BZB/1 - Black**      **BZR/1 - Red**

### A B F

**BEZELS 2** - both colours - 15-377

References: **BZB/2 - Black**      **BZR/2 -Red**

### BEZELS 3

These are solely for use with ETT/3 and are provided as components of Product Packs TB16 through to TB19 as described on Page 6.

### A B F G

#### SPACER PIECES

All Colours: 15-370

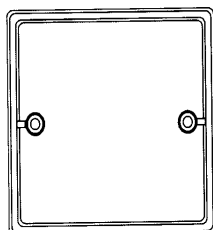
References:

**M141W - Red**      **M142W - White**

**M143W - Yellow**   **M144W - Blue**

**M145W - Green**

Spacer pieces fit to the front of Surface Plastic boxes adding 10mm to the overall depth of the box. The need for longer fixing screws should be noted - see PACKS OF SMALL PARTS on Page 16.

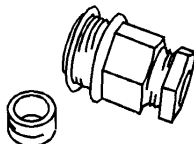


### C

#### NYLON CABLE COMPRESSION GLAND

Reference **CG1** 15-381

A Nylon compression Cable Gland having M20 male thread suitable for use with the cable entry of CLASS 4000 Call Points. Suitable for cables between 4 and 10.5mm diameter.

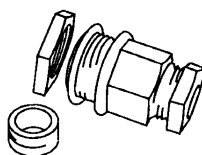


### E

#### NYLON CABLE COMPRESSION GLAND

Reference **CG2** 15-382

As CG1 but being additionally provided with a 20mm diameter locknut as required for use with call points using the CLASS 7000 mechanical package.



#### REPLACEMENT 'O' RINGS - CLASS 4000 and REPLACEMENT NEOPRENE GASKETS - CLASS 7000

If the front of a call point using either the CLASS 4000 or the CLASS 7000 mechanical package is removed, after it has been in service for some time, the 'O' Ring or the gasket, as appropriate, should be replaced. These are available in packs of 5.

### C

#### REPLACEMENT 'O' RINGS

Reference **P025**

Price per pack of 5 15-383

### E

#### REPLACEMENT GASKETS

Reference **P055**

Price per pack of 5 15-384

### A B C D E

#### 'NO GLASS' (RESETTABLE) CALL POINTS by fitting DEFORMABLE OPERATING ELEMENT Ref: WF1

**The Operating Element is normally Breakable Glass.**

All Break Glass Models listed in this Document may be converted to 'NO GLASS' form by alternatively fitting a Deformable Operating Element. This is particularly useful in locations where glass fragments are particularly unwelcome such as in food factories and swimming pools. In these typical application examples, the Call Points must be Waterproof Models as they are liable to be hosed down during routine cleaning.

**In use**, the operator depresses the Deformable Operating Element so that it latches in alarm, trapped under the switch plunger. When the test key is inserted the Operating Element is restored to the set position.

**Non Compliance with BS5839**

#### DEFORMABLE OPERATING ELEMENT .... Continued

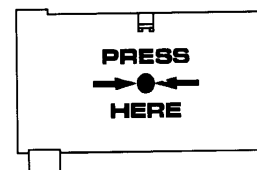
**To order fitted in a Call Point:** add '/F' to the Model

Reference: Example: WR2001/SR/F

**To price:** The price is the same, whether the Call Point is fitted with either a Glass Operating Element or a Deformable Operating Element.

**To order individually,** quote Reference WF1 and indicate language required.

Price 15-391 each.



Deformable Operating Element Ref: WF1.

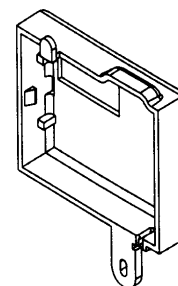
#### ADDRESS BOARD CRADLES

An Address Board Cradle provides fixing means, and in the case of MABC and SABC, mechanical protection for an Address Board as is required for call points used in analogue addressable alarm systems. The term "Call Point Assembly" is used to describe a call point complete with such an Address Board.

There are three classes of Address Board Cradles, application examples of these are illustrated on Page 9. There are several models of MABC and SABC, varying with regard to cable entry and cutouts for a DIL switch.

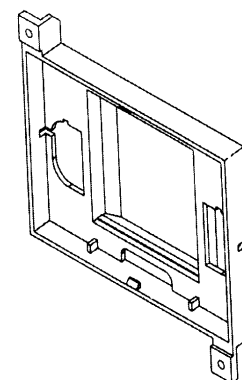
#### Miniature Address Board Cradle - MABC

These fit to CLASS 6000 models based on the indoor and the Rainproof mechanical packages. An MABC is designed to accept a printed circuit board of approximate dimensions 44.5mm x 37mm x 1.5mm.



#### Small Address Board Cradle - SABC

An SABC will accept a printed circuit board of approximate dimensions 76.5mm x 56.5mm x 1.5mm deep and will also fit to CLASS 6000 models based on the Indoor and on the Rainproof mechanical packages. A Call Point Assembly using an SABC with the Indoor mechanical package cannot be directly fitted to a flush fitted GPI box as can one using an MABC. A CLASS 6000 indoor call point assembly using SABC can however be fitted to a ETT/1 or ETT/2 or ETT/3 + BEZEL 3 as described on Page 6.



#### Waterproof Address Board Cradle - WABC

A WABC will accept an Address Board of the same dimensions as for an MABC.

Component depth restrictions, and engineering drawings can be made available.

