# Simplex

## Cautions and Warnings

ELECTRICAL HAZARD - Disconnect electrical power when installing or servicing.

STATIC HAZARD - Static electricity can damage components.  Ground yourself before opening or installing components.

## Introduction

The 4099-9032 through 4099-9037 Series Manual Call Points provide a means to manually initiate a fire alarm condition to the 4010 Fire Alarm Control Panel (FACP), via the IDNet™ channel.  The IDNet channel provides the communication link between a call point and 4010 FACP and powers the entire circuitry.

## Installation

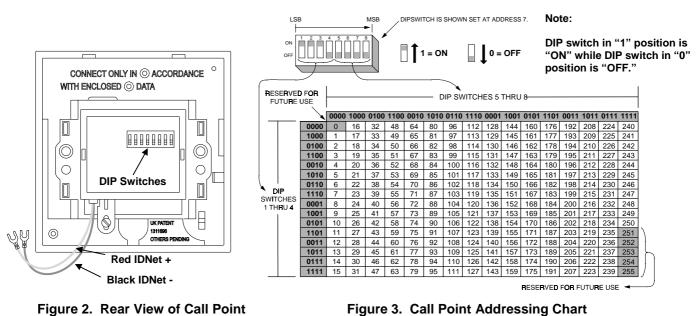Addressable call point installation consists of the following steps.

1.  Setting the call point address.
2.  Making electrical connections to the call point.
3.  Mechanically installing the call point.
4.  Replacing the glass substitute element with the break glass.
5.  Testing the call point.

**Figure 1.  Front View of Call Point
(English Version with Glass Installed)**

## 1.  Setting the Call Point Address

Each call point has a unique address (1 through 250).  The address of the call point is set via an eight position DIP switch (Figure 2), DIP switch position **1** is the least significant bit (LSB) and position **8** is the most significant bit (MSB).  Set the call point address using Figure 2 as a reference.  Use a small screwdriver or pen to set the switches.

Configure the call point to the 4010 panel using the *4010 Fire Alarm Panel Programming Instructions* (574-054) and the *4010 Fire Alarm Installation and Operation Instructions* (574-052).  Use device type KACPUL.  Refer to the *4010 Panel Label* (526-444) for the appropriate revision of the instructions to be used.



**Note:**

**DIP switch in "1" position is "ON" while DIP switch in "0" position is "OFF."**

DIPSWITCH IS SHOWN SET AT ADDRESS 7.

1 = ON    0 = OFF

RESERVED FOR FUTURE USE

DIP SWITCHES 1 THRU 4

| DIP SWITCHES 5 THRU 8 | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0000 | 1000 | 0100 | 1100 | 0010 | 1010 | 0110 | 1110 | 0001 | 1001 | 0101 | 1101 | 0011 | 1011 | 0111 | 1111 |
| 0 | 16 | 32 | 48 | 64 | 80 | 96 | 112 | 128 | 144 | 160 | 176 | 192 | 208 | 224 | 240 |
| 1 | 17 | 33 | 49 | 65 | 81 | 97 | 113 | 129 | 145 | 161 | 177 | 193 | 209 | 225 | 241 |
| 2 | 18 | 34 | 50 | 66 | 82 | 98 | 114 | 130 | 146 | 162 | 178 | 194 | 210 | 226 | 242 |
| 3 | 19 | 35 | 51 | 67 | 83 | 99 | 115 | 131 | 147 | 163 | 179 | 195 | 211 | 227 | 243 |
| 4 | 20 | 36 | 52 | 68 | 84 | 100 | 116 | 132 | 148 | 164 | 180 | 196 | 212 | 228 | 244 |
| 5 | 21 | 37 | 53 | 69 | 85 | 101 | 117 | 133 | 149 | 165 | 181 | 197 | 213 | 229 | 245 |
| 6 | 22 | 38 | 54 | 70 | 86 | 102 | 118 | 134 | 150 | 166 | 182 | 198 | 214 | 230 | 246 |
| 7 | 23 | 39 | 55 | 71 | 87 | 103 | 119 | 135 | 151 | 167 | 183 | 199 | 215 | 231 | 247 |
| 8 | 24 | 40 | 56 | 72 | 88 | 104 | 120 | 136 | 152 | 168 | 184 | 200 | 216 | 232 | 248 |
| 9 | 25 | 41 | 57 | 73 | 89 | 105 | 121 | 137 | 153 | 169 | 185 | 201 | 217 | 233 | 249 |
| 10 | 26 | 42 | 58 | 74 | 90 | 106 | 122 | 138 | 154 | 170 | 186 | 202 | 218 | 234 | 250 |
| 11 | 27 | 43 | 59 | 75 | 91 | 107 | 123 | 139 | 155 | 171 | 187 | 203 | 219 | 235 | 251 |
| 12 | 28 | 44 | 60 | 76 | 92 | 108 | 124 | 140 | 156 | 172 | 188 | 204 | 220 | 236 | 252 |
| 13 | 29 | 45 | 61 | 77 | 93 | 109 | 125 | 141 | 157 | 173 | 189 | 205 | 221 | 237 | 253 |
| 14 | 30 | 46 | 62 | 78 | 94 | 110 | 126 | 142 | 158 | 174 | 190 | 206 | 222 | 238 | 254 |
| 15 | 31 | 47 | 63 | 79 | 95 | 111 | 127 | 143 | 159 | 175 | 191 | 207 | 223 | 239 | 255 |

Row labels (DIP SWITCHES 1 THRU 4): 0000, 1000, 0100, 1100, 0010, 1010, 0110, 1110, 0001, 1001, 0101, 1101, 0011, 1011, 0111, 1111

RESERVED FOR FUTURE USE

CONNECT ONLY IN ACCORDANCE WITH ENCLOSED DATA

DIP Switches

UK PATENT 1311696 OTHERS PENDING

Red IDNet +

Black IDNet -

**Figure 2.  Rear View of Call Point**

**Figure 3.  Call Point Addressing Chart**

## 2. Making Electrical Connections to the Call Point

The IDNet signal connects to the call point using the red and black wires. The connections for the call point are illustrated in Figure 2.
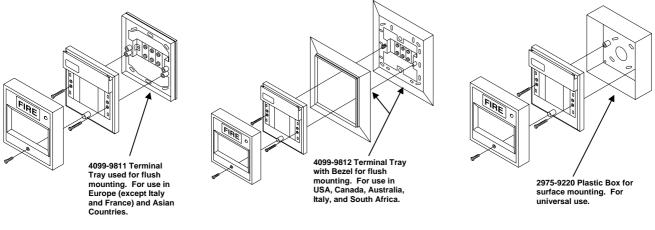
**Notes:**

1. The maximum allowable run from 4010 to the farthest device is not to exceed 2,500 feet. The maximum total wire length (including all T-Taps) from 4010 FACP is 10,000 feet. IDNet wiring is supervised and power-limited.

2. Field wiring connections must be in accordance to local code.

## 3. Mechanically Installing the Call Point

Install the call point into a suitable electrical box (not supplied) using Figure 4 as a reference. Mounting accessories (sold separately) are available to support a variety of electrical boxes.
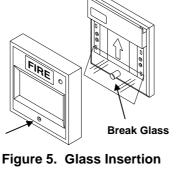
**Note:** The call point fits directly to a U.K. switch/socket box (not shown in Figure 4). A minimum box depth of 25mm is recommended.



**4099-9811 Terminal Tray used for flush mounting. For use in Europe (except Italy and France) and Asian Countries.**

**4099-9812 Terminal Tray with Bezel for flush mounting. For use in USA, Canada, Australia, Italy, and South Africa.**

**2975-9220 Plastic Box for surface mounting. For universal use.**

**Figure 4. Installing the Call Point**

## 4. Replacing the Glass Substitute Element with the Break Glass

1. Remove the screw in the bottom of the call point cover.
2. Remove the plastic glass substitute element.
3. Insert the break glass into the call point.
4. Replace the call point cover and screw it in place.



**Screw Hole**

**Break Glass**

**Figure 5. Glass Insertion**

## 5. Testing the Addressable Call Point

A key is shipped with the call point to test the call point without breaking the glass. To test the call point, insert the key into the small keyhole on the bottom left of the call point (see Figure 6). When the key is inserted, the glass drops and tests the switch. Do not leave the test key with the call point after commissioning.
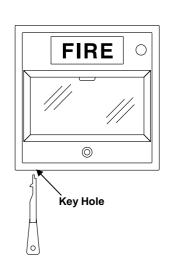


**Key Hole**

**Figure 6. Key Insertion**

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