# CP840Ex Intrinsically Safe Weather-proof Break Glass Callpoint

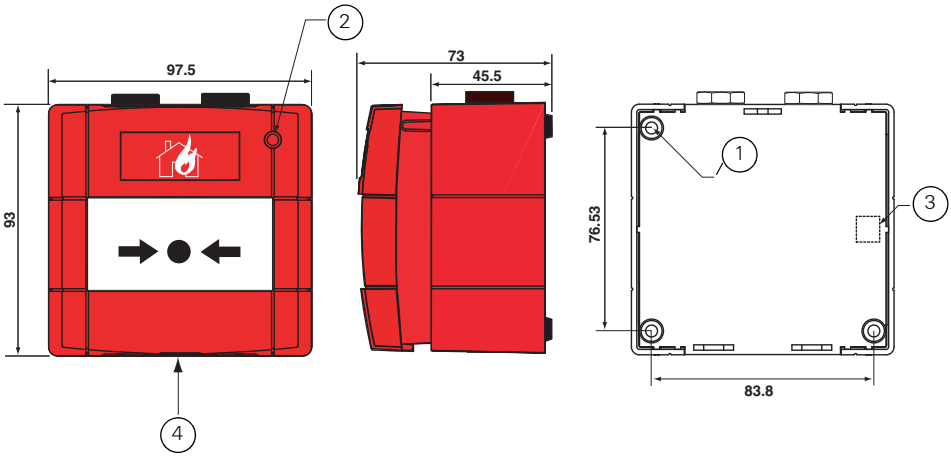



*Fig. 1: CP840Ex Dimensions*
*1– Ø4.5 fixing holes (3) places*
*2– Alarm indicator LED (red)*
*3– Earth continuity terminal (internal)*
*4– Test/release key access*

## Introduction

The CP840Ex Intrinsically Safe Weatherproof Break Glass Callpoint, is designed to monitor and signal the condition of a switch contact that is operated by breaking a glass sheet. The type of alarm generated by the callpoint is configured in MX Consys.

The CP840Ex is fitted into a standard KAC weatherproof backbox which is supplied with the callpoint.

The CP840Ex callpoint meets the requirements of EN54 Pt. 11.

## Address programming

The CP840Ex has a default factory set address of 255. This must be set to the loop address of the device using the 801AP MX Service Tool/ 850EMT Engineering Management Tool IN THE SAFE AREA ONLY. The CP840Ex is programmed with the address via the Programming Port (see Fig. 2).

**Site Drawings**

Once the address has been programmed, take note of the device location and address number, to include on site drawings.

# Technical Specifications

Table 1 shows the technical specification information.

| Parameter | Value |
|---|---|
| Type Identification Value | 139 |
| System Compatibility | Use only with MX Fire Alarm Controllers |
| Environment | Indoor/Outdoor applications |
| Operating Temperature | -25 to +70 °C |
| Storage Temperature | -30 to +70 °C |
| Operating Humidity | Up to 95 % non-condensing |
| Dimensions (HWD) | 93 x 97.5 x 73 mm |
| IP Rating | IP67 |

*Table 1: Technical Specifications*

## Electrical Characteristics

| Characteristics | Min | Typ. | Max | Unit |
|---|---|---|---|---|
| Loop Voltage | 18 | | 24 | V |
| Quiescent Current | | 250 | 300 | µA |
| Alarm Current | | 4.5 | 5 | mA |

*Table 2: Electrical characteristics*

## Electromagnetic Compatibility

The CP840Ex complies with the following:

- Product family standard EN50130-4 in respect of:
  - Conducted Disturbances
  - Radiated Immunity
  - Electrostatic Discharge
  - Fast Transients
  - Slow High Energy.
- EN61000-6-3 for Emissions.

# Mounting & Cabling

Mount the backbox in the required location ensuring the orientation is as shown in Fig. 1.

Cables are to be selected in accordance with Publication 17A-02-D1 and local regulations, for example the current issue of BS5839..

Cabling should be connected as shown in Fig. 3, ensuring correct polarity.

## Mounting location

Additional protection may be required for the CP840Ex when installing in areas where it is at risk of damage.

## Wiring notes

1. There are no user-required settings (such as switches or headers) on the CP840Ex.
2. All wiring must conform to the current edition of IEE Wiring Regulations and BS5839 part 1.
3. All conductors to be free of earths. For typical wiring configuration see Fig. 3.
4. Verify the correct polarity of the wiring before connecting the CP840Ex to the Intrinsically Safe loop circuit. Fit front cover to backbox.

# Service and maintenance

The CP840Ex contains no user serviceable parts. For repair or refurbishment please contact the manufacturer.

# Ordering information

| Name | Stock code number |
|---|---|
| CP840Ex Break Glass Callpoint | 514.800.513 |
| Callpoint Glasses (pack of 5) | 515.001.015 |

*Table 3: Ordering information*

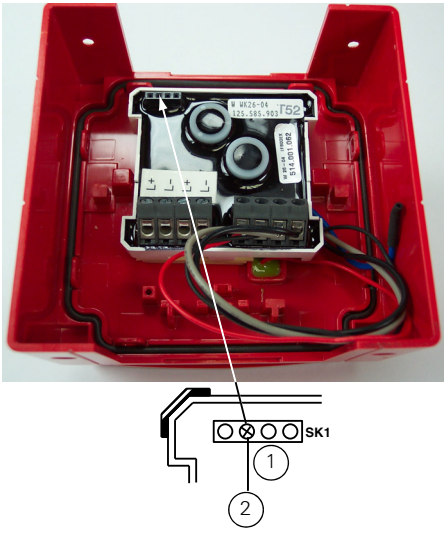



*Fig. 2: CP840Ex Internal View*
*1– Programming port*
*2– Unused pin*

# CPR Information

CE 0786 UKCA 0832

Tyco Fire & Security GmbH
Victor von Bruns-Strasse 21
8212 Neuhausen am Rheinfall
Switzerland

15
0786-CPR-20673
23
0832-UKCA-CPR-F0165
DoP-2015-4098

**EN54-11: 2001 + A1: 2005**
Intrinsically safe addressable Type A manual outdoor callpoint for use in fire detection and alarm systems
CP840Ex

**Essential Characteristics**
**EN54-11**
Nominal activation conditions / Sensitivity and Performance under fire conditions: Pass
Operational reliability: Pass
Durability of operational reliability temperature resistance: Pass
Durability of operational reliability; vibration resistance: Pass
Durability of operational reliability; humidity resistance: Pass
Durability of operational reliability; corrosion resistance: Pass
Durability of operational reliability; electrical stability: Pass

Product Application & Design Information 17A-02-CPEx
Fixing Instructions
120.415.985_17A-03-CPEx

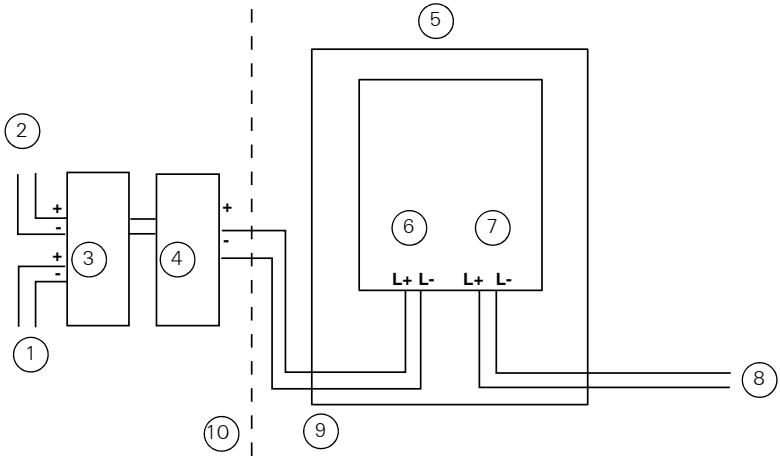



*Fig. 3: CP840Ex Simplified Wiring Diagram*

*1– MX Loop OUT*
*2– MX Loop IN*
*3– EXI800 Interface Module*
*4– Galvanic isolator*
*5– CP840Ex Callpoint*
*6– MX Loop IN*
*7– MX Loop OUT*
*8– To next I.S. device*
*9– Hazardous area*
*10–Safe area*

120.415.985_17A-03-CPEx, doc. version 9.0, 24. April 2023
© 2023 Johnson Controls. All rights reserved. All specifications and other information shown were current as of document revision date and are subject to change without notice.
www.zettlerfire.com
Tyco Fire & Security GmbH, Victor von Bruns-Strasse 21, 8212 Neuhausen am Rheinfall, Switzerland