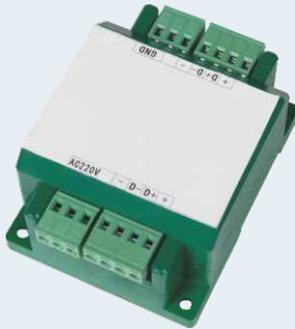
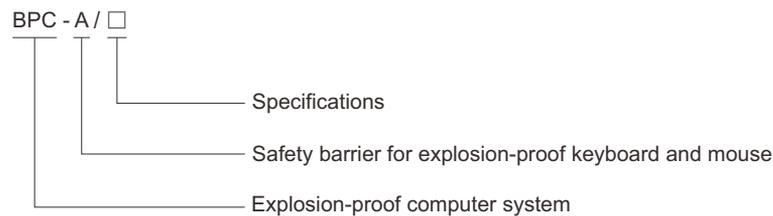


## Explosion-proof Computer System BPC-A Series Safety Barrier for Explosion-proof Keyboard and Mouse



- ◆ Explosion protection to
  - CENELEC
  - IEC
- ◆ Can be used in
  - Zone 1 and Zone 2

### Catalogue number logic



### Product features

- ◆ Is formed from flame-retardant anti-arc plastic, with the entire circuit encapsulated within the enclosure and sealed with flame-retardant epoxy resin to prevent abnormal contact of components and eliminate the possibility of external mixed contact.
- ◆ Features clearly marked intrinsic safety terminals; the distance between the terminals, the creepage distance of the distance between the terminals, the enclosure, the printed board, and the sealing material, the electrical clearance, and the relative trace index, are all in line with the relevant provisions of the GB/T 3836.4 standard;
- ◆ Displays terminal identifiers on the exterior, facilitating product identification and preventing misconnection.
- ◆ The safety barrier for BPC-A intrinsic safety keyboard and mouse is an intrinsic safety device. It serves as a safety protection feature in the explosion-proof system as an intrinsic safety associated device for the keyboard and mouse. It serves as a link between intrinsic safety keyboards and explosion-proof mice in hazardous areas and computers or industrial PC in safe areas (the safety barrier should be located in the safe zone). Under normal operation, it does not affect the measurement system's detection and control functions. In fault states (e.g., abnormal high voltages from the computer or industrial PC), the safety barrier restricts excessive energy from entering hazardous areas. Utilizing its multifunctional protective features of voltage and current limitation and rapid circuit disconnection ensures safe use of intrinsic safety keyboards and explosion-proof mice in hazardous areas.
- ◆ The safety barrier for BPC-A intrinsic safety keyboard and mouse can be combined with various on-site intrinsic safety keyboards and explosion-proof mice to form intrinsic safety explosion-proof systems, thereby achieving the automation process control of the modern industrial.

# Zones 1&2

# Explosion-proof Computer System

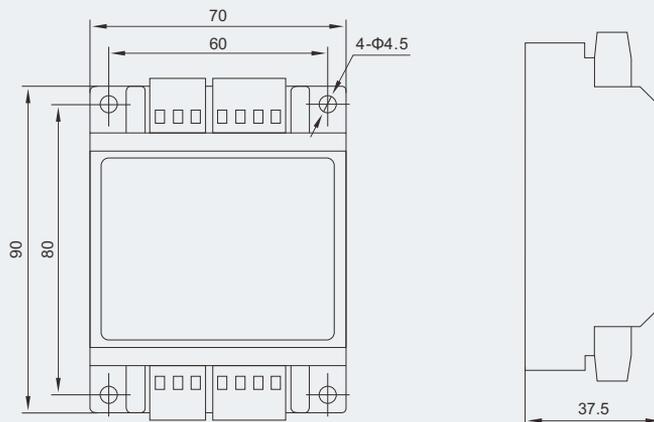
## BPC-A Series Safety Barrier for Explosion-proof Keyboard and Mouse

### Technical data

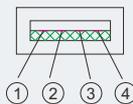
#### Safety barrier for explosion-proof keyboard and mouse BPC-A

<b>Explosion protection</b>	
Global (IECEX)	IECEX (applied for)
Gas	[Ex ib Gb] IIC
Europe (ATEX)	ATEX (applied for)
Gas	⊕ IIC G [Ex ib Gb] IIC
<b>Certificates</b>	IECEX; ATEX
<b>Conformity to standards</b>	IEC 60079-0, IEC 60079-11 EN 60079-0, EN 60079-11
<b>Degree of protection</b>	IP66
<b>Operating environmental temperature</b>	-20 ~+40
<b>Maximum input voltage</b>	DC7.0V
<b>Maximum input current</b>	282mA
<b>Maximum input power</b>	494mW
<b>Maximum internal capacitance</b>	13.7μF
<b>Maximum internal inductance</b>	280μH

### Dimension drawings (all dimensions in mm) - subject to alteration



USB interface definition



- ① - (Power)
- ② D+ (Data)
- ③ D- (Data)
- ④ + (Power)

