Personnel Safety Alarm

Features

- High integrity fail-safe technology
- Dual watchdog channel design
- Stays operational with multiple failures
- Monitored alarm relay output
- Fault relay output
- Integrated 95dB Beacon/Sounder
- 10 hour battery backup
- Remote beacon sounder with connection monitoring
- Connect up to 2 coldroom buttons
- Mains powered: 85-264 Vac
- Ingress Protection rating: IP65
- Power status and alarm LEDs
- See **BS EN 378-1:2016 Annex D**

The GB Controls Personnel Safety Alarm (PSA) is designed to alert staff if a person is trapped within a walk-in coldroom or freezer.

The system comprises of the PSA unit, illuminated coldroom pushbutton, 304 grade stainless-steel guard and the external beacon/sounder. The system can be ordered as a kit using order code GBC2000-PSK.

The unit uses dual channel processing technology to provide a high reliability alarm system which can detect multiple system failures such as: mains failure, battery backup failure, external beacon disconnected, main relay fault, processing fault, power fault and more.

The personnel safety alarm is fitted with a Ni-MH battery pack to keep the unit operational for up to 10 hours if the mains supply fails. We recommend replacing the battery pack a minimum of every 3 years. The alarm is a high integrity self-checking system and as such requires no significant routine maintenance.

Coldroom Pushbutton and Guard	External Beacon/Sounder
IP66 / -40°C to +70°C	95dB @ 30cm

GBC2000-PSA Unit Specifications

Physical
Dimensions:	122mm wide x 120mm high x 63mm deep
Material:	ABS, PC (UV stabilised) Light Grey RAL7035
Ingress Protection:	IP65 to EN 60529
Unit Operating Temp:	0°C to +40°C

Supply
Supply Voltage:	85 – 264 Vac / 47 – 63Hz
AC Current (typical at 230V):	20 mA

Inputs
Switched Input Voltage/Current	12V dc / 10mA
Maximum cable length	30 metres

Outputs
Ext. Beacon Output	12V dc / 130mA max.
Maximum cable length	30 metres

Alarm Relay Output
Nominal Switching Capacity (resistive):	3A@250Vac / 3A@30Vdc

Fault Relay Output
Nominal Switching Capacity (resistive):	2A@250Vac / 1A@30Vdc
Maximum Switching Power:	500VA / 30W
Minimum Switching Capacity:	100mA@5Vdc

GBC2000-EB1 Emergency Button & Guard Specifications

Pushbutton Dimensions:	68mm wide x 68mm high x 86mm deep
Guard Dimensions:	110mm wide x 80mm high x 96mm deep
Pushbutton Material:	Polycarbonate Grey RAL7035/Yellow RAL 1021
Guard Material:	304 Grade Brushed Stainless Steel
Ingress Protection:	IP66 to EN 60529
Pushbutton Operating Temp:	-40°C to +70°C
Supply Voltage/Current:	Custom waveform 12Vdc / 15mA peak

GBC2000-BS1 External Beacon/Sounder Specifications

Dimensions:	68mm wide x 68mm high x 60mm deep
Material:	Polycarbonate Grey RAL7035/Yellow RAL 1021
Ingress Protection:	IP66 to EN 60529
Operating Temp:	-20°C to +70°C
Sound Pressure Level:	95dB @ 30cm
Supply Voltage/Current:	12Vdc / 25mA peak

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