

GCE 光彩电器

GCBJDZ-01 警报指示器系统

GCBJDZ-01 Alarm indicator system



河南光彩电器有限公司
China GCE Co.,Ltd



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GC BJDZ -01 -XXXX



1. GCBJDZ-01 警报指示器系统设备清单 Alarm indicator system device list

序号 No.	型 号 Model	名 称 Description	防护等级 Protection grade	数量 Qty.	备 注 Remark
1.	GCBJDZ-01-SGK-7A	继电器箱 Relay box	IP44	1	电源 2 路 AC220V 使用金属填料函
2.	GCBJDZ-01-SGB-7A	壁挂式警报指示器 Wall mount alarm indicator	IP44		使用金属填料函
3.	GCBJDZ-01-SGF-7AQ	嵌入式警报指示器 Flush type alarm indicator	IP22	1	
4.	GCBJDZ-01-12KFX-7	分线箱 Junction box	IP44	1	使用金属填料函

备件清单:Equipment list

序号 S/N	型 号 Type	名 称 Name	数 量 Qty	备注 Remark
1.		LED 顶灯灯罩 (红) Red lamp cover	2	
2.		LED 顶灯灯罩 (琥珀) Amber lamp cover	2	
3.		LED 顶灯灯罩 (绿) Green lamp cover	2	
4.		复示器蜂鸣器 Double trap buzzer	1	
5.		LED 指示灯 LED indicator light	10	
6.				

2.主要功能及技术指标: Main function and technical parameter

2.1 报警输入信号 Alarm Input Signal:

序号 No.	名称 Name	类型 Signal type	备注 Remark
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1、	audio frequency 音频	audio frequency 音频 100V	
	Public address Emergency calling signal (for alarm muting) 广播紧急喊话信号(静音信号)	Contact 触点 (闭合报警)	Potential free contact, contact closed when public address emergency calling, for muting all the alarms except GENERAL ALARM alarm. 输入信号是:在广播紧急喊话时, 用于切断灯板上发出的报警声响(但通用报警声响除外), 并发出广播信号。
2、	GENERAL ALARM signal 通用报警信号	Contact 触点 (闭合报警)	Seven(7) short, one(1) long sound potential free contact signal, see below figure. All the E/R signal light column should be controlled by this signal, so that their sounds are synchronized with the whole ship's public address speakers. 输入信号是: 7 短 1 长的通用报警脉冲触点信号(详见下列波形图), 用于控制所有报警灯板发出和全船广播喇叭同步的通用报警音调。
3、	foam release alarm 泡沫放报警	CLOSE alarm 闭合报警	Potential free contact, close when alarm occurs. 输入信号是: 正常时断开, 报警时闭合的无源触点信号
4、	FIRE ALARM 火灾报警	Open alarm 断开报警	Potential free contact, open when alarm occurs. 输入信号是: 正常时闭合, 报警时断开的无源触点信号
5、	MACHINERY ALARM 机器故障	Close alarm 闭合报警	Potential free contact, closed when alarm occurs. 输入信号是: 正常时断开, 报警时闭合的无源触点信号
6.1	AUTO. TELEPHONE 自动电话	Contact 触点 (闭合报警)	DC24V ON when being called. 输入信号是: 正常时无电源, 呼叫时输入 DC 24V 的有源信号
6.2	NO.1 SOUND POWER TEL. 1 号声力电话	Contact 触点 (闭合报警)	DC24V ON when being called. 输入信号是: 正常时无电源, 呼叫时输入 DC 24V 的有源信号
6.3	NO.2 SOUND POWER TEL. 2 号声力电话	Contact 触点 (闭合报警)	DC24V ON when being called. 输入信号是: 正常时无电源, 呼叫时输入 DC 24V 的有源信号

7、	TELEGRAPH CALL 车钟呼叫	Contact 触点（闭合报警）	Potential free contact, closed when telegraph is calling. 输入信号是：正常时断开，呼叫时时闭合的无源触点信号
8、	DEAD MAN ALARM 死人报警	Contact 触点（闭合报警）	Potential free contact, closed when alarm occurs. 输入信号是：正常时断开，报警时闭合的无源触点信号

7 种报警输入信号：通用报警、泡沫施放报警、火灾报警、机器故障、电话呼叫、车钟呼叫、死人报警

Seven kinds of alarm input signal: general alarm, foam alarm, fire alarm, engine fault, telephone calling, telegraph calling, dead man alarm

优先顺序如下：1 通用报警，2 泡沫施放报警，3 火灾报警，4 其他。更高级优先报警发生时，低级报警应切断。

The preferential sequence is as following: 1 general alarm, 2 foam release alarm, 3 fire alarm, 4 others. When the more preferential alarm occurs, the less preferential alarm should be cut off.

电话呼叫信号如果没有确认应在大约 2 分钟内自动停止。

Telephone calling signal shall be stopped automatically if no acknowledgement follows in about 2 minutes.

2.2 信号显示色别：

（乳白色）：电话呼叫、车钟呼叫

（红色）：火警、泡沫施放报警

（绿/白）：通用报警

（琥珀色）：机器故障、轮机员安全报警

Color for input signal:

(ivory): telephone calling, telegraph calling

(red/ ivory): fire alarm, foam release alarm

(green): general alarm

(Amber): engine fault, dead man alarm

2.3 当有电话呼叫报警时，扬声器发出 500Hz 的断续报警音，琥珀色转灯工作，HA01 喇叭声响。

当有车钟报警时，扬声器发出 600Hz 的断续报警音，琥珀色转灯工作，HA01 喇叭声响。

当有机器故障时，扬声器发出 800Hz/1000Hz 的转换报警音，琥珀色转灯工作，HA01 喇叭声响。

当有通用报警时，扬声器发出 1000Hz 七短一长的报警音，绿色转灯工作，HA02 喇叭声响。

当有泡沫施放报警时，扬声器发出 1000Hz 的连续调频报警音，红色转灯工作，HA03 喇叭声响。

当有火警报警时，扬声器发出 500~1200Hz 连续变化报警音，红色转灯工作，HA03 喇叭声响。

当有死人报警时，扬声器发出 500~1000Hz 之间等值变化的间断调频音，琥珀色转灯工作，HA01 喇叭声响。

当在广播紧急喊话时，切断灯板上发出的报警声响(但泡沫报警声响除外)，HA04 喇叭发出广播信号。

When telephone calling alarm occurs, speaker will send out 500Hz intermittent alarm tone and Amber rotating lamp will work.

When telegraph alarm occurs, speaker will send out 600Hz intermittent alarm tone and Amber rotating lamp will work.

When engine fault occurs, speaker will send out 800Hz/1000Hz conversion alarm tone and Amber rotating lamp will work.

When general alarm occurs, speaker will send out 1000Hz seven short and one long alarm tone and green rotating lamp will work.

When foam alarm occurs, speaker will send out 1000Hz continuous FM alarm tone and red rotating lamp will work.

When fire alarm occurs, speaker will send out 500~1200Hz continuous change alarm tone and red rotating lamp will work.

When dead man alarm occurs, speaker will send out 500~1000Hz intermittent FM alarm tone in equal changes and Amber rotating lamp will work.

Potential free contact, contact closed when public address emergency calling, for muting all the alarms except foam release alarm.

报警声压级:大于 120dB

Alarm level: $\geq 120\text{Db}$ (according to cladd approved and IMO)

2.4 电源失电报警: 任何一路失电时, 报警继电器箱输出一付闭合触点, 断开报警输出。

Power failure alarm: power is failure, alarm relay box will give a pair of close contact output, NO.

2.5 供电电压: 2 路 (AC220V $\pm$ 15%/3A 50\60hz) 自动转换。

Power supply: 2 way (AC220V $\pm$ 15%/3A 50\60hz) switchover automatically.

2.6 报警指示灯全部为 LED

Alarm indicator light are all LED

2.7 .颜色: MUNSELL 2.5G 7/2: 铭牌: 英文 不锈钢

Colour:Munsell 2.5G 7/2: Nameplates:English STAINLESS STEEL

接线箱箱需留有适当容量(至少 20%)以便于将来可增加适当数量的灯板。