第一章 声力电话系统
CHAPTER 1 BATTERYLESS TELEPHONES SYSTEM

◆ 产品概述 PRODUCT GENERAL

HSC系列船用增音声力电话系统是按照CCS有关规范设计制造。为各类大、中、小型船舶提供内部通讯及应急联络的产品，可声力和供电两用，具有通话音量大，使用方便的特点。

Complied with CCS rules and regulations, the marine batteryless telephones system HSC series provide internal communication and emergency contact for all kinds of vessels. It can work in two modes both batteryless and battery powered. Featured with loud and clear sound, HSC series can be used conveniently.

主要功能:/ Functions

1.增音通话 / Extension for Communication

HSC系列声力电话机DC24V供电时，能进行增音通话，增音音量不小于20dB,掉电时电话机自动转为声力通话。

When powered with DC24V, HSC series have the extension function for communication and the extension volume will be higher than 20dB. Later, once power failed, it can turn to batteryless mode.

2.按键呼叫 / Press to Call

HSC系列电话机上装有一只呼叫键，在DC24V正常供电时，按此键对方电话机即响铃，不需要摇发电机呼叫。在电压为18-36V范围内能正常工作，掉电时用手摇发电机。

A press key is installed in the HSC series. Under DC24V power, press the key to call. The key can work normally within the voltage of 15-35V. Once power failed, it needs power by manual.

3.抗噪声功能/ Noise-proof

机舱电话机可加抗噪声头戴送受话器，可在110dB的噪声下通话。

Noise-proof headset is available. It can even work under the noise of 110dB.

4.闪光灯铃组 / Flashing Light Signal Unit

闪光灯铃组用于机舱等高噪声舱室，所有声力电话机均有接闪光灯铃组端子。

Considering the high noise engine room, flashing light signal unit is available. And all the batteryless telephones are equipped with connecting terminals for the signal unit.

◆ 技术参数 TECHNICAL DATA

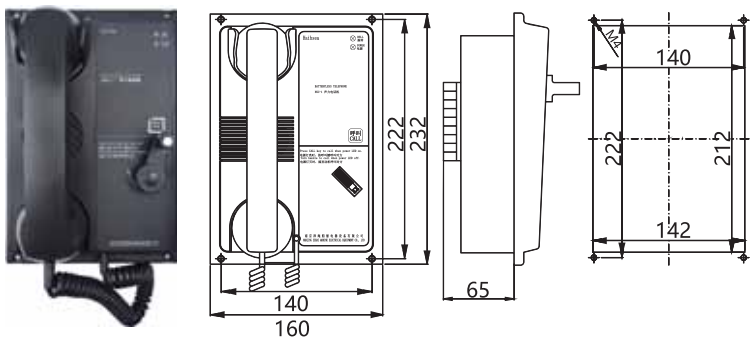
适用环境:-10℃~+55℃	Temperature:-10℃~ +55 ℃
环境噪音:≤85dB	Envurinment Noise:≤85dB
加抗噪声头戴送受话时:≤110dB	With Noise-proof Headset:≤110dB
收讯铃响度:≥85dB	Sound of Receiver:≥85dB
增音放大器电压增益:20±3dB	Extension Gain:20±3dB
增音用电源电压:DC24V$^{+30\%}_{-25\%}$ 0.3A	Power for Extension:DC24V$^{+30\%}_{-25\%}$ 0.3A
闪光分铃器触点:AC125V/1A DC30V/2A	Bell Contact:AC125V/1A DC30V/2A
有防振动、倾摇能力及防潮、防霉和防盐雾的措施	With Features against vibration, incline, dampness, mildew and salt fog

系统组成 PRODUCT TABLE

序号 NO.	品名 Name	型号 Model	重量 Weight	防护等级 IP Class
1	嵌入式直通声力电话 Flush Type Single-way Batteryless Telephone	HSC-1Q	1.2kg	IP20
2	嵌入式选通声力电话 Flush Type Multi-way Batteryless Telephone	HSC-12Q	1.2kg	IP20
3	壁挂式直通声力电话 Wall Type Single-way Batteryless Telephone	HSC-1G	1.2kg	IP44
4	壁挂式选通声力电话 Wall Type Multi-way Batteryless Telephone	HSC-12G	1.2kg	IP44
5	抗噪声直通声力电话 Single-way Batteryless Telephone With Noise-proof Headset	HSC-1J	1.9kg	IP44
6	抗噪声选通声力电话 Multi-way Batteryless Telephone With Noise-proof Headset	HSC-12J	1.9kg	IP44
7	闪光灯铃组 Flashing Light Signalling Unit	FR-100Z	0.6kg	IP44
8	防风雨直通声力电话 Weather-proof Single-way Batteryless Telephone	HSC-1F	2.98kg	IP56
9	防风雨选通声力电话 Weather-proof Multi-way Batteryless Telephone	HSC-12F	2.98kg	IP56
10	接线箱 Junction Box	12JX	1.36kg	IP22
11	继电器盒 Relay Box	FR-100	0.18kg	IP22

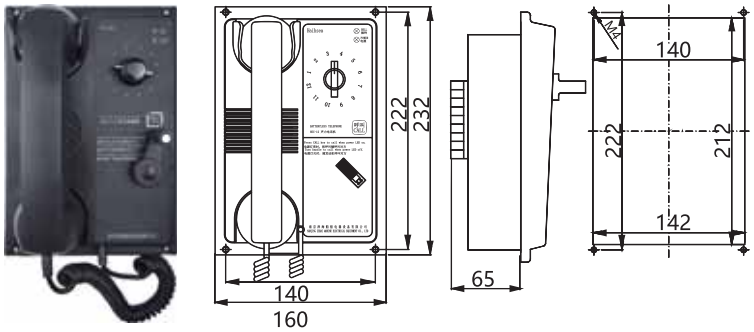
产品尺寸图 PRODUCT DIMENSIONS

HSC-1Q 嵌入式直通声力电话 FLUSH TYPE SINGLE-WAY BATTERYLESS TELEPHONE



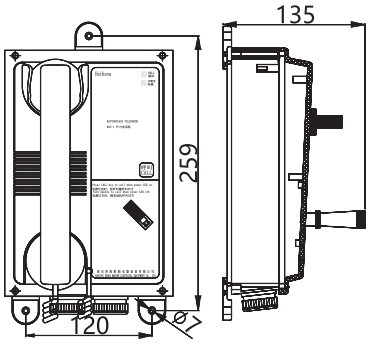
颜色(Colour):黑色 Black
防护等级(IP Class):IP20
供电电源(Power Supply):DC24V $^{+30\%}_{-25\%}$
功率 (Power):3W
外壳材质(Hull Material):ABS
安装方式(Installation):嵌入式 Flush Type
声压等级(Sound Pressure Level): > 85db
重量 (Weight):1.2kg

HSC-12Q 嵌入式选通声力电话 FLUSH TYPE MULTI-WAY BATTERYLESS TELEPHONE



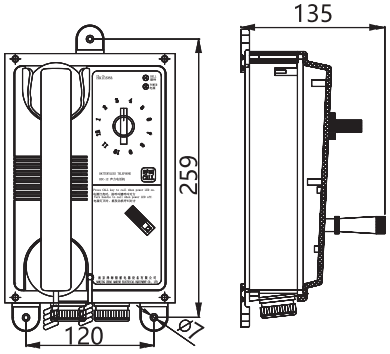
颜色(Colour):黑色 Black
防护等级(IP Class):IP20
供电电源(Power Supply):DC24V $^{+30\%}_{-25\%}$
功率(Power):3W
外壳材质(Hull Material):ABS
安装方式(Installation):嵌入式 Flush Type
声压等级(Sound Pressure Level):>85db
重量(Weight):1.2Kg

HSC-1G壁挂式直通声力电话 WALL TYPE SINGLE-WAY BATTERYLESS TELEPHONE



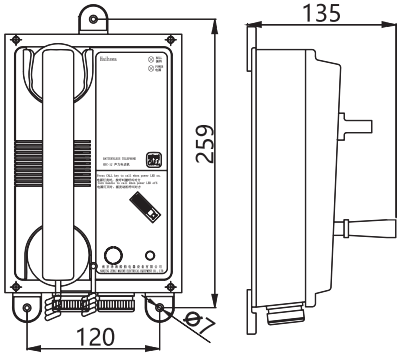
颜色(Colour):黑色 Black
防护等级(IP Rating):IP44
供电电源(Power Supply):DC24V $^{+30\%}_{-25\%}$
功率(Power):3W
外壳材质(Hull Material):ABS
安装方式(Installation):
壁挂式 Wall Mounting
填料函(Stuffing Box):2*PG16
声压等级(Sound Pressure Level):>85db
重量(Weight):1.2kg

HSC-12G 壁挂式选通声力电话 WALL TYPE MULTI-WAY BATTERYLESS TELEPHONE



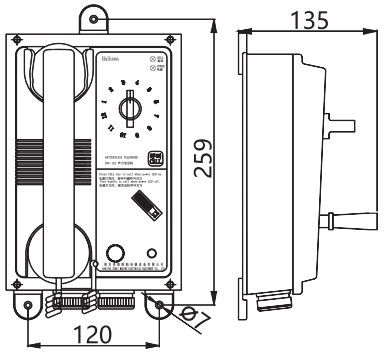
颜色(Colour):黑色 Black
防护等级(IP Class):IP44
供电电源(Power Supply):DC24V $^{+30\%}_{-25\%}$
功率 (Power):3W
外壳材质(Hull Material):ABS
安装方式(Installation):
壁挂式 Wall Mounting
填料函(Stuffing Box):2*PG16
声压等级(Sound Pressure Level):>85db
重量(Weight):1.2kg

HSC-1J 抗噪声直通声力电话 SINGLE-WAY BATTERYLESS TELEPHONE WITH NOISE-PROOF HEADSET



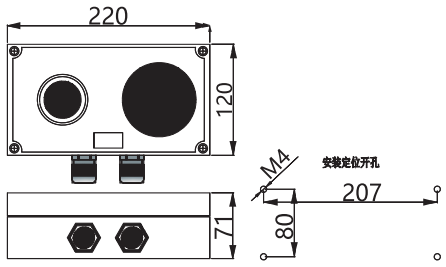
颜色(Colour):黑色 Black
防护等级(IP Class):IP44
供电电源(Power Supply):DC24V $^{+30\%}_{-25\%}$
功率(Power):3W
外壳材质(Hull Material):ABS
安装方式(Installation):
壁挂式 Wall Mounting
填料函(Stuffing Box):2*PG16
声压等级(Sound Pressure Level):>85db
重量(Weight):1.9kg

HSC-12J 抗噪声选通声力电话 MULTI-WAY BAHERYLESS TELEPHONE WITH NOISE-PROOF HEADSET



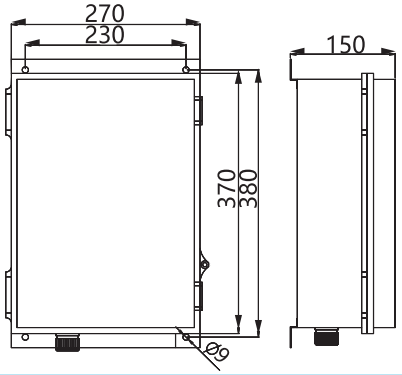
颜色(Colour):黑色 Black
防护等级(IP Class):IP44
供电电源(Power Supply):DC24V $^{+30\%}_{-25\%}$
功率(Power):3W
外壳材质(Hull Material):ABS
安装方式(Installation):
壁挂式 Wall Mounting
填料函(Stuffing Box):2*PG16
声压等级(Sound Pressure Level):>85db
重量(Weight):1. 9kg

FR-100Z 闪光灯铃组 FLASHING LIGHT SIGNALLING UNIT



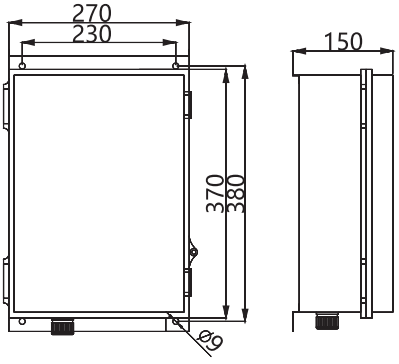
颜色(Colour):灰色 Grey
防护等级(IP Class):IP44
供电电源(Power Supply):DC24V $^{+30\%}_{-25\%}$
功率(Power):2W
外壳材质(Hull Material) :ABS
安装方式(Installation):
壁挂式 Wall Mounting
填料函(Stuffing Box):2*PG13.5
声压等级(Sound Pressure Level):90-100db
重量(Weight):0.6kg

HSC-1F防风雨直通声力电话 WEATHER-PROOF SINGLE-WAY BATTERYLESS TELEPHONE



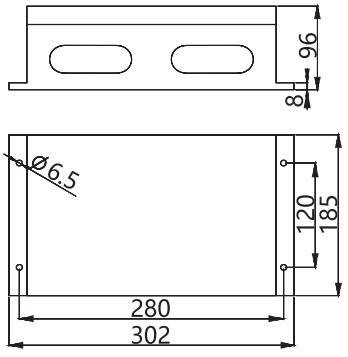
颜色(Colour):卵石灰 Pebble Grey
防护等级(IP Class):IP56
供电电源(Power Supply):DC24V $^{+30\%}_{-25\%}$
功率(Power):3W
外壳材料(Hull Material):ABS
安装方式(Installation):
壁挂式 Wall Mounting
填料函(Stuffing Box):1*PG16
声压等级(Sound Pressure Level): >85db
重量(Weight):2.98Kg

HSC-12F 防风雨选通声力电话 WEATHER-PROOF MULTI-WAY BATTERYLESS TELEPHONE



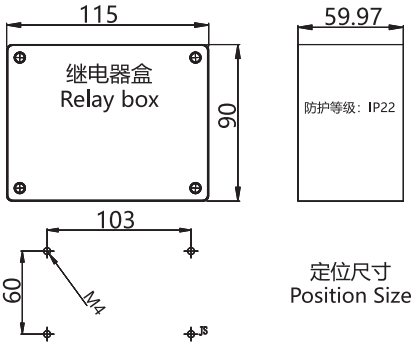
颜色(Colour):卵石灰 Pebble Grey
防护等级(IP Class):IP56
供电电源(Power Supply):DC24V $^{+30\%}_{-25\%}$
功率(Power):3W
声压等级(Sound Pressure Level):>85db
外壳材料(Hull Material):ABS
安装(Installation):
壁挂式 Wall Mounting
填料函(Stuffing Box):1*PG16
重量(Weight):2.98Kg

12JX 接线箱 JUNCTION BOX



颜色(Colour):卵石灰 Pebble Grey
防护等级(IP Class):IP22
供电电源(Power Supply):DC24V $^{+30\%}_{-25\%}$
功率(Power):15W
外壳材质(Hull Material):ABS
安装方式(Installatian):
壁挂式 Wall Mountig
重量 (Weight):1.36kg

FR-100 继电器盒RELAY BOX



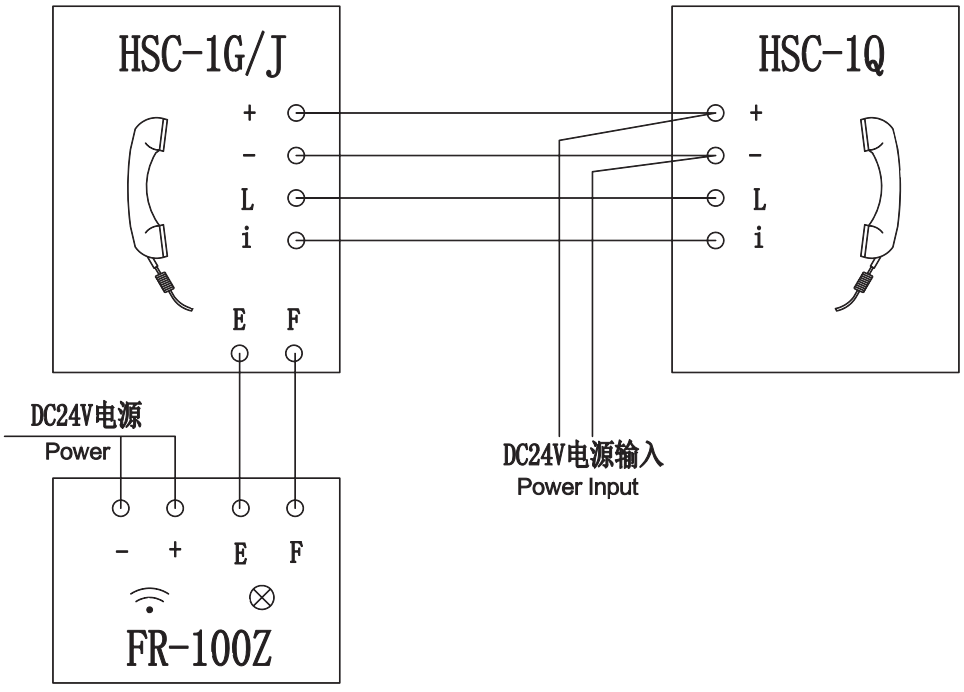
定位尺寸
Position Size

颜色(Colour):卵石灰 Pebble Grey
防护等级(IP Class):IP22
供电电源(Power Supply):DC24V $^{+30\%}_{-25\%}$
外亮材质(Hnll Material):ABS
安装方式 (Installation):
壁挂式 Wall Mounting
功率(Power):1W
重量(Weight):0.6kg

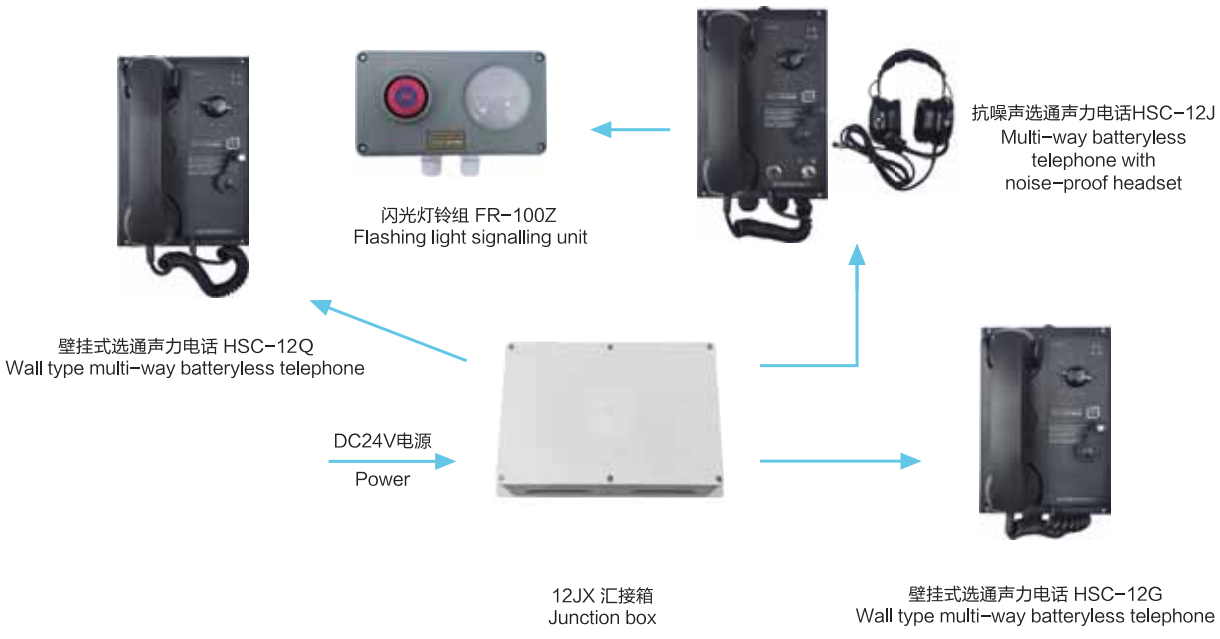
◆ 系统接线图 SYSTEM CONNECTION DIAGRAM

直通声力电话系统 SINGLE-WAY BATTERYLESS TELEPHONE SYSTEM

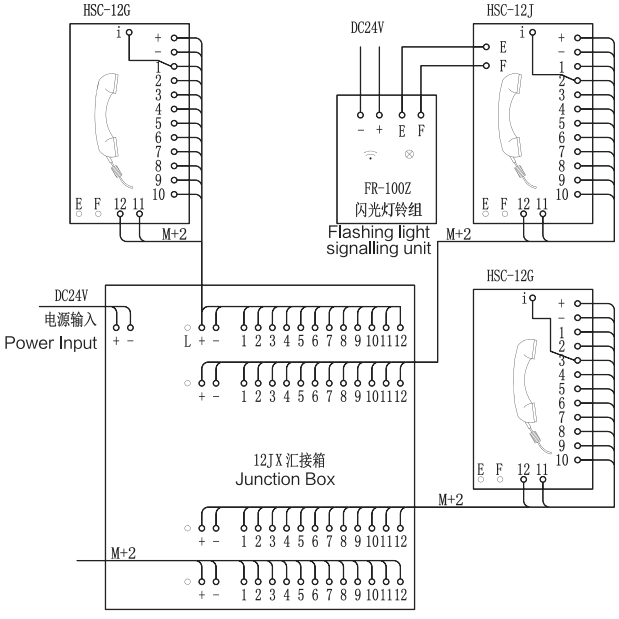
直通声力电话系统接线图
SINGLE WAY BATTERYLESS TELEPHONE SYSTEM CONNECTION DIAGRAM



选通声力电话系统 MULTI-WAY BATTERYLESS TELEPHONE SYSTEM



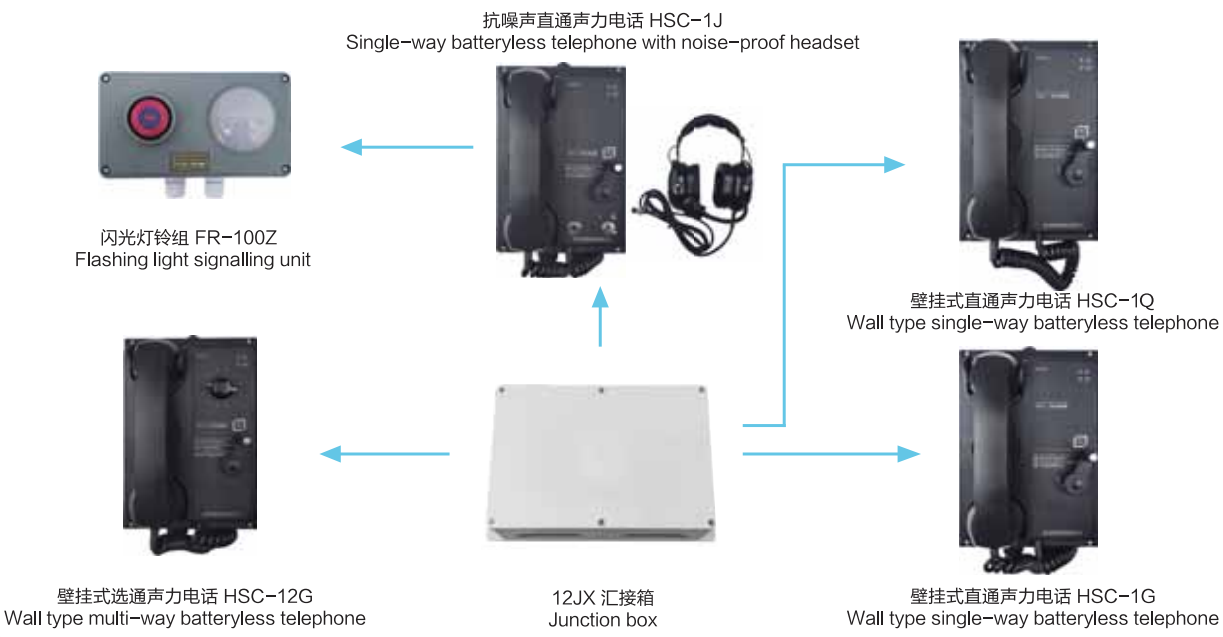
选通声力电话系统接线图
MULTI-WAY BATTERY-LESS TELEPHONES SYSTEM CONNECTION DIAGRAM



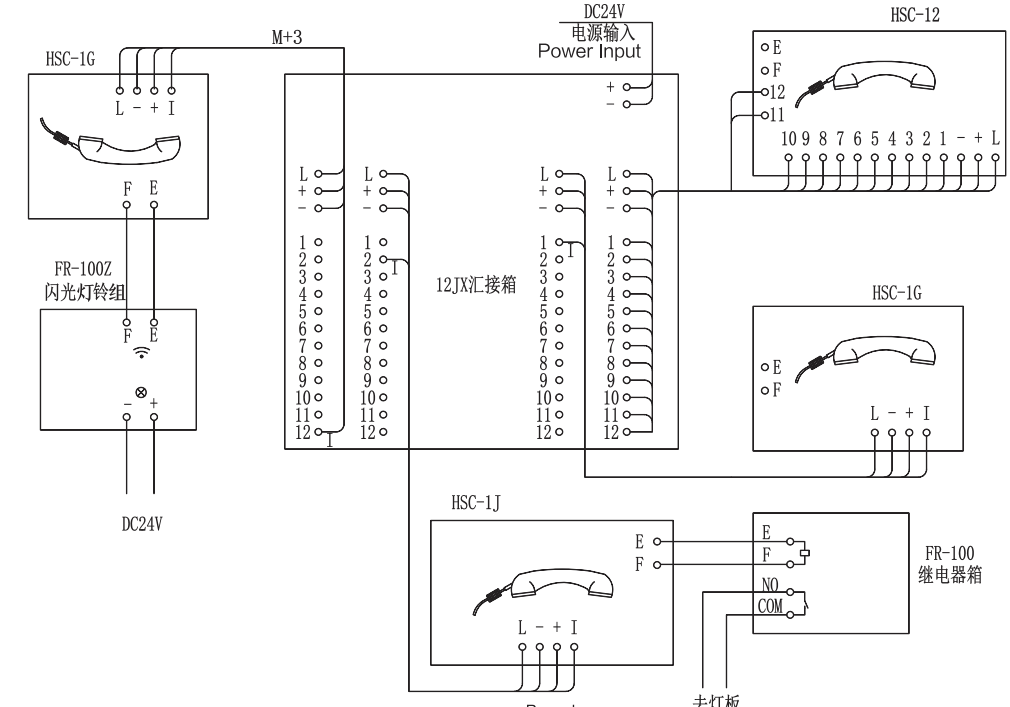
注：1.选通电话机的i端接本机号N（N=1,2，....12）
2.电缆要求有屏蔽，截面不小于0.75mm²
3.M表示实装门数，电缆芯数为M+2

Remark:
1. Terminal i in the multi-way battery-less telephone connects the phone No. 1,2.....12
2. The cable should be shielded and the cross section should be more than 0.75 mm²
3. M stands for the actual lines. Number of the cable cords is M+2

指挥声力电话系统 COMMANDING BATTERY-LESS TELEPHONES SYSTEM



指挥声力电话系统接线图
COMMANDING BATTERY-LESS TELEPHONES SYSTEM CONNECTION DIAGRAM



注：1.选通电话机的i端接本机号N(N=1、2....12)
2.电缆要求有屏蔽，截面不小于0.75mm²
3.M表示实装门数，电缆芯数为M+3，分机电缆芯数为4芯

Remark:
1. Terminal i in the multi-way battery-less telephone connects the phone No. 1,2.....12
2. The cable should be shielded and the cross section should be more than 0.75 mm²
3. M stands for the actual lines. The number of the cable cords is M+3. Cable cords of the extension phones is 4.