



JB-QBC-BS10

高度集成的船用火灾自动报警&机舱水基灭火复合控制系统
为您简化设计、节约空间、降低成本

Fixed fire detection and fire alarm system & Water mist extinguishing control system
to simplify your design, save space and reduce cost.



国内唯一获欧盟MED实验室认证，并获得CCS、DNV、BV、LR船级社型式认可，获得发明专利证书、实用新型专利证书、外观设计专利证书。

The sole European Union MED Laboratory Certification obtained in China wins the main classification society type approval such as: CCS, DNV, LR, BV. The system is granted with Invention Patent Certificate, Utility Model Patent Certificate, and Design Patent Certificate.

关于蓝天

About Brightsky

蓝天电子凭借二十余年（创建于95年）对船舶火灾报警及控制系统技术的深刻理解和辛勤耕耘，产品获得CCS、DNV、LR、BV等主要船级社的型式认可，有千余条船安装使用火灾报警和水基灭火系统经验的积累，赢得了来自国内外权威技术部门的首肯，我们会以自己的技术专长在这一领域“永继经营”。

Brightsky Electronic (established in 1995) have been serving in marine fire alarm and control system for over 20 years. the product wins the main classification society type approval such as: CCS,DNV, LR,BV. Our fire alarm system and water mist extinguishing control system was used in more than 1000 ships and win the approval of both domestic and foreign technical authorities. we shall achieve sustainable operation in the field with our technical expertise

● 生产基地 | Production Base : 23778M²



● 研发大楼 | R & D building : 36000M²



完善的生产现场是产品品质的保证

Automatic machining and inspection facility support a high quality product

英国进口测试烟箱
符合英国消防BS3116标准及中国GB4715-2005标准
Smoke sensing chamber for testing from Unite kindom.
Meet the UK standard BS3116 and china standard GB4715-2005



电磁兼容 (EMC) 性能试验室
EMC Test Room for Electronic Products



全自动SMT表面贴装生产流水线车间 SMT surface mounting line



我们持之以恒

正在获取更多的船级社型式认可证书
以满足不同客户的需求

We are perseveringly trying to get more relevant technical certifications to provide more security to users.

JB-QBC-BS10 系统认证 System Certification

国内唯一获欧盟MED实验室认证，并获DNV、CCS、BV、LR船级社型式认可，获得国家级发明专利证书、实用新型专利证书、外观设计专利证书。
JB-QBC-BS10控制器已通过Apollo测试，批准可用于XP95®和Discovery®数字通信，协议。

The system obtains the sole certification of European Union MED Laboratory in China, the type approval of DNV、CCS、BV、LR, and national-level Invention Patent Certificate, Utility Model Patent Certificate, and Design Patent Certificate.
JB-QBC-BS10 Control Panel has been tested in accordance with Apollo test schedule and approved for use with XP95 and Discovery digital communications, protocols and devices.

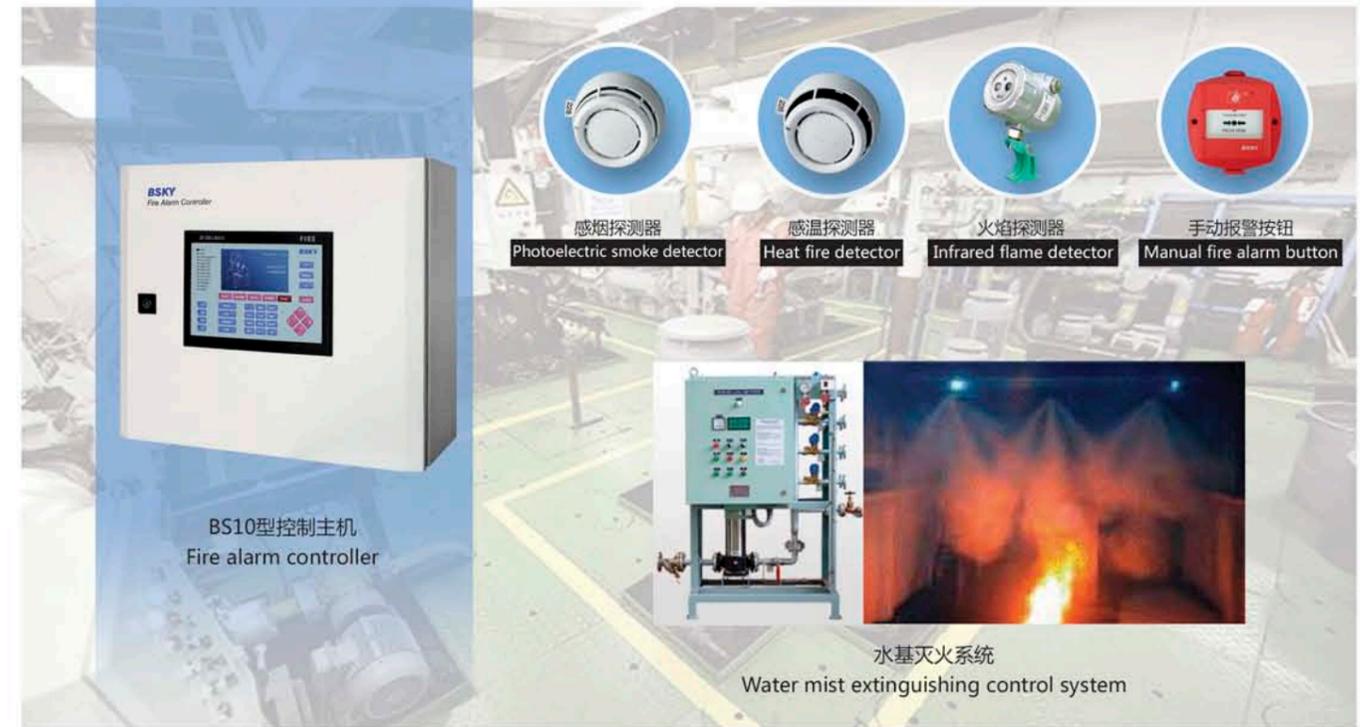


上海世博会·巴西奥运会·世界杯 船舶消防产品供应商

Shanghai Expo · Brazil Olympic Games · World Cup
Marine Fire Fighting Product Supplier

蓝天电子凭借对消防产品的深刻理解和辛勤耕耘，携研发团队设计的JB-QBC-BS10系统赢得了来自权威部门的首肯。由于系统具有高度的可靠性在国内外船舶消防中得到了广泛的采用及受到高度的评价。

Brightsky Electronic, together with the JB-QBC-BS10 system designed by its R&D team, wins the approval of both domestic and foreign technical authorities by virtue of its profound understanding and industrious efforts on fire fighting products. Due to the high reliability, the system is widely applied and highly evaluated in domestic and foreign marine fire fighting.



中远海运发展股份有限公司,青岛轮、运港轮 5600TEU选用
Applied in 5600TEU Qindao and Yungang ship by COSCO Shipping Development Company Limited.



中远航运股份有限公司, 36000T重吊船选用
Applied in 36000DWT heavy lift vessel by COSCO Shipping Development Company Limited.



上海国际港务集团有限公司, 上海港引航船选用
Applied in pilot ship by Shanghai international port (group) co.,Ltd.



上海世博期间22条浦江游览与渡船选用
Applied in 22 sightseeing boats and ferryboats in Huangpu River during Shanghai Expo.



火灾自动报警器控制器

Fire Alarm Controller

集成整船火灾报警和机舱细水雾灭火控制功能于一体

Combining ship fire alarm system with cabin water mist fire suppression system



壁挂式安装 | Wall type

- 获得欧盟MED指令认可
- 同时满足《国际消防安全规则》第9章MSC.1/Circ.1387 适应用A类机器处所的固定式局部水基灭火系统
- 127x8回路=1016最大编址容量
- 火灾探测器和消防联动控制可编程共享总线，降低系统布线数量，提高系统可靠性
- 壁挂式、嵌入式二种安装方式可选择
- 控制器和探测器均嵌入智能算法，降低系统误报率
- 选择性探测器隔离功能、使用系统维护检修
- 地址卡指示牌，便于巡视人员直观获得探测器地址号
- 报警点可直接用文字表示实际被监视部位
- LCD屏多信息同屏显示，中文、英文双语转换

- Marine Equipment (MED) certification by DNV
- meet the standard MSC.1/Circ.1387 (revised guidelines for the approval of fixed water-based local application fire-fighting systems for use in category a machinery spaces)
- Max. points number 127X8(LOOP)=1016
- Fire alarm detector and association action are used the same bus, reduce the wires used in the system and enhance the reliability
- wall type and flush mounting type can be selected
- intelligence algorithms are used in controller and detector, reduce the mis-alarm event
- Isolate the detectors if needed, convenient to maintenance
- Address card, convenient to the user to identify it
- Display the relative place information if the detector send out alarm.
- Many information is displayed in the same LCD screen. 2 language can be selected: english and chinese.

提供广泛的信息 Provide Extensive Information

火警 2(3)
首火警: 分区1 感烟 1004 桥楼
2 分区2 感烟 2001 二楼宿舍
OK- 确认报警,按右键查看详情
警铃延时 100 秒 光消音-关闭声光音响

易于操作 Easy to Operate

状态
1 火警 (003)
2 监督 (000)
3 联动 (000)
4 故障 (000)
5 屏蔽 (000)
6 测试 (000)
按数字键 1-6 选择菜单项

故障 1(1)
1 分区2 感烟 2001 二楼宿舍
OK- 确认报警,按右键查看详情
光消音-关闭板面音响,声光消音-关闭声光音响

记录火灾报警及其它信息 Record Fire Alarm and Other Information

火警记录 (010)
1 火警 分区2 感烟 2001 二楼宿舍 2011/06/25 17:50
2 火警 分区1 感烟 1004 廊桥 2011/06/25 17:00
按左右键翻页

其他记录 (119)
1 火警 分区2 感烟 2001 二楼宿舍 2011/06/25 17:50
2 火警 分区1 感烟 1004 廊桥 2011/06/25 17:00
按左右键翻页

火灾探测器

Fire Detector

减少误报的秘密

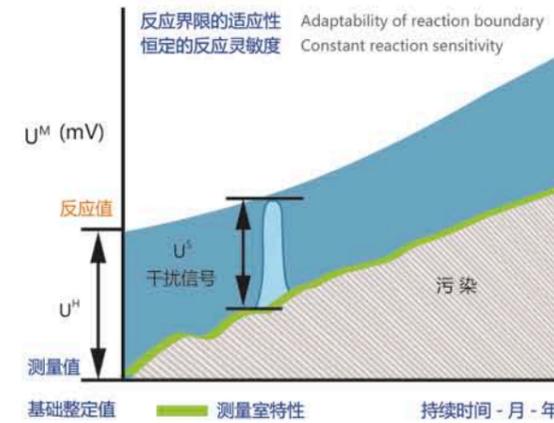
Secret of Reducing False Alarm



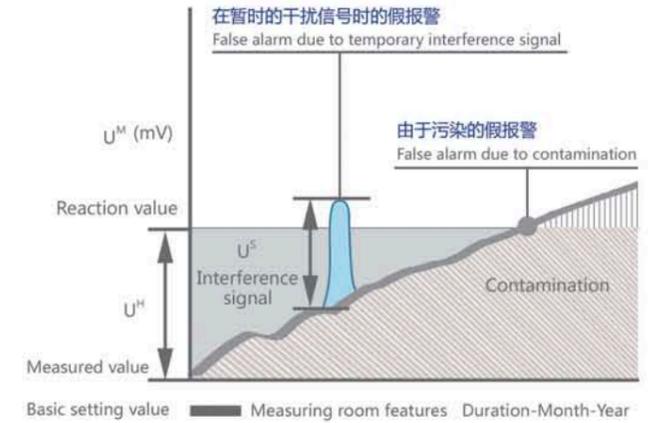
BS10系统火灾探测器采用数字量传输及浮动定值处理技术，与常规火灾探测器相比其根本区别在于火灾探测器没有固定的报警阈值，当环境改变或探测器受环境污染变质时，其内部智能算法会自动识别并调整报警阈值以适应新的环境和状态，对探测器的这种阈值漂移补偿功能使的每个火灾探测器有一个对于外界环境相对恒定的灵敏度。

BS10-system fire detectors adopt digital value transmission and floating threshold value processing technology, and their basic difference from normal fire detectors is that they have no fixed alarm threshold, i.e. when the environment changes or a detector is contaminated by the environment, its internal intelligent algorithm will automatically identify and adjust the alarm threshold to adapt to the new environment and condition, so the function of threshold drift compensation enables every fire detector to have a sensitivity relatively constant to external environment.

BSKY 报警系统特征 Features of BSKY Fire Alarm System



常规探头特征 Features of Normal Detectors

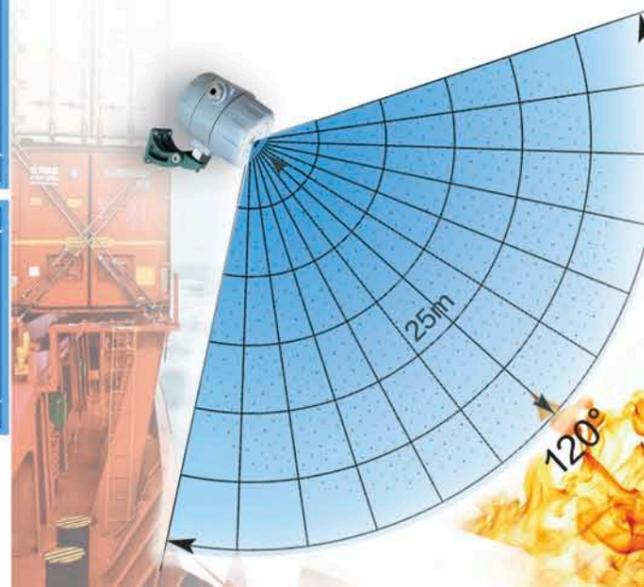


红外火焰探测器

Fire Alarm Controller

红外双波段+动态闪频识别 有效抵御非燃烧引起的误报警

Dual Band Infrared Ray + Dynamic Flash Frequency Identification
Effectively Prevent False Alarm Caused by Non-combustion



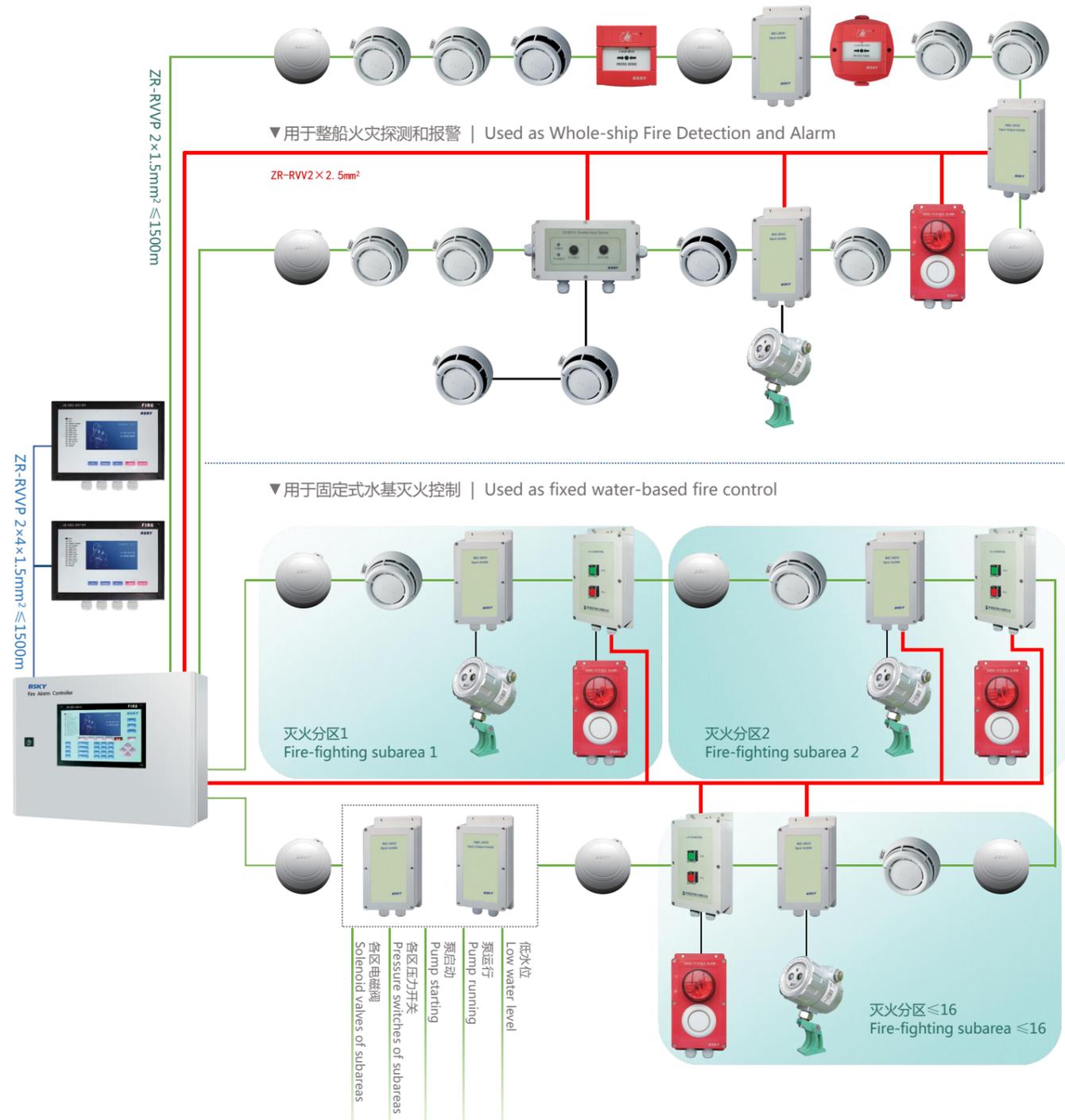
探测视场角为120度的扇形圆锥区域，中心直线距离可以达到25米。蓝色区域为探测器的有效探测区域。

A sector and conical zone with detection field angle of 120°, in which the center straight detection distance can reach 25m. The blue zone is the effective detection zone of detector.



BS10船用火灾报警&水基自动灭火控制系统示意图

Diagram of fire alarm system and water mist extinguishing control system



技术规格

Technical Specifications



型号名称 Type and name	JB-QBC-BS10 火灾报警控制器 Fire alarm controller	JB-QBC-BS10R 火灾显示盘 Fire indication panel
主电源 Main power supply	AC 110/220V (+10%~-15%), 50HZ/60HZ	DC 24V±10%
应急电源 Emergency power supply	AC 110/220V (+10%~-15%), 50HZ/60HZ	---
船用直流备电 Backup DC power for ships	DC 24V (+30%~-25%)	---
内部蓄电池 Internal battery	DC 24V, 2.2AH	---
功耗 Power consumption	监视状态 : ≤10W; 报警状态 : ≤12W Monitoring status : ≤10W; Alarm status : ≤12W	监视状态 : ≤1.5W; 报警状态 : ≤2.4W Monitoring status : ≤1.5W; Alarm status : ≤2.4W
执行标准 Standard	EN-54/2, 4	---
回路板数目 Number of loop boards	最多2个 Two at most	---
每块回路板的容量 Capacity of each loop board	4个环形回路, 每个回路最多接128个报警点 4 circular loops with 128 alarm points each	---
手报火灾报警按钮的报警时间 Alarm time of manual alarm	≤5s	---
探测器的报警时间 Alarm time of detector	≤10s	---
回路最大传输距离 Loop max. Communication distance	≤1500m	---
控制器与火灾显示盘通讯的最大传输距离 Communication distance between detector and fire indication panel	≤1500m	≤1500m
布线方式 Way of wiring	BS10系列报警点-2线制, 无极性 BS10系列模块-4线制 BS10-series alarm point - 2 wiring system, non-polar BS10-series module - 4 wiring system	---
灭火保护区 Fire protection zone	最多16个灭火保护区,可配置在任一独立回路 Max. 16 Fire protection zone,they can be set to any separate loop	---
控制器输出 Output of the device	无源触点输出, 触点容量为1A, DC30V : — 火警输出6组, — 火警延时输出1组, — PA输出1组, — 故障输出4组, — 电源故障输出2组, — 系统故障输出2组 有源输出, 输出电压DC24V, 最大电流1A : — 火警延时输出1组, — 门吸输出1组. Dry contact output, contact capacity 1A,DC30V: — Fire output 6 — Fire delay output 1 — PA output 1 — Fault output 4 — Power fault output 2 — System fault output 2 — Power supply to the output,DC24V,max. current 1A: — Fire delay output 1 — Door hold output 1	---
外部报警输入 alarm input from other system	无源输入触点2组 2 sets of passive input contacts	---
安装方式 Way of installation	壁挂式 / 嵌入式 wall type / flush mounting type	壁挂式 / 嵌入式 wall type / flush mounting type
火警历史记录 Fire alarm history records	最多999条 Max 999 instances	---
其它历史记录(包括上电, 故障, 联动等等) Other history records	最多999条 Max 999 instances	---
工作温度 Working temperature	5°C~55°C	5°C~55°C
相对湿度 (无冷凝) Relative humidity (Non-condensing)	Max.95%	Max.95%
控制器尺寸 Installation dimensions	515×525×146mm ³	245×176×102mm ³
壁挂式机器重量 Weight	22Kg	2.2Kg
机箱防护等级 Degrees of protection	IP44	IP44

技术规格

Technical Specifications



型号名称 Type and name	JTY-GD-BS10 点型光电感烟火灾探测器 Point-type photoelectric smoke detector	JTW-ZD-BS10 点型感温火灾探测器 Point-type heat fire detector
工作电压 Working voltage	DC 18V-26V	DC 18V-26V
功耗 Power consumption	静态 Static status	≤ 0.35mA
	报警状态 Alarm status	≤ 1.5mA
	给外部指示灯提供的电流 Current provided for external indicating lamp	≤ 1.2mA
执行标准 Standard	EN-54/7	EN-54/5 (class: A2)
尺寸 dimensions	Φ100X38	Φ100X38
工作温度 Working temperature	-25°C~70°C	Max.95% RH
相对湿度 (无冷凝) Relative humidity (Non-condensing)	Max.95% RH	Max.95% RH
含底座重量 Weight including base	0.26Kg	0.26Kg
防护等级 Degrees of protection	IP 44 含防水底座 (Include water-proof base)	IP 44 含防水底座 (Include water-proof base)



型号名称 Type and name	JTG-IR-BS10 点型红外火焰探测器 Point-type infrared flame detector	JTG-ZW-5Ei 点型紫外火焰探测器 Point-type ultraviolet flame detector
工作电压 Working voltage	DC 18V-26V	DC 18V-26V
功耗 Power consumption	静态 Static status	回路 Loop: ≤ 0.6mA DC24V: ≤ 12mA
	报警状态 Alarm status	回路 Loop: ≤ 3.5mA DC24V: ≤ 22mA
执行标准 Standard	EN54-10	EN54-10
指示灯 Indicating lamp	正常工作状态: 绿色闪亮 报警状态: 红色常亮 Normal working status: Flashing, green Alarm status: Normally on, red	正常工作状态: 红色闪亮 报警状态: 红色常亮 Normal working status: Flashing, red Alarm status: Normally on, red
上电延时时间 Power on delay time	30s	6s
报警输出 Alarm output	火警及故障无源触点输出, 触点容量2A, DC30V. Fire alarm and fault alarm dry contact output, contact capacity 2A, DC30V.	火警及故障无源触点输出, 触点容量1A, DC30V. Fire alarm and fault alarm dry contact output, contact capacity 1A, DC30V.
总线接入方式 Method connected to the BS10 loop	此为常规探测器, 需配合IMC-BS10输入模块才能接入回路中。 It's conventional detector and can be connected to the loop by IMC-BS10 input module.	可以直接接入回路中 Connect to the loop directly
最大探测距离 Max. detecting distance	25m	25m
视角 Angle of view	90°	90°
工作温度 Working temperature	-25°C~+70°C	-25°C~+70°C
相对湿度 (无冷凝) Relative humidity (Non-condensing)	Max.95%	Max.95%
尺寸 Dimensions	124X118X122 mm	124X118X122 mm
重量 Weight	1.9Kg	1.9Kg
防护等级 Degrees of protection	IP 44	IP 44

技术规格

Technical Specifications



型号名称 Type and name	J-SAP-BS10 手动火灾报警按钮 Manual fire alarm button	J-SAP-BS10WP 手动火灾报警按钮 Manual fire alarm button
工作电压 Working voltage	DC 18V-26V	DC 18V-26V
功耗 Power consumption	静态 Static status	≤ 0.35mA
	报警状态 Alarm status	≤ 1.5mA
执行标准 Standard	EN-54/11	EN-54/11
工作温度 Working temperature	-25°C~70°C	-25°C~70°C
相对湿度 (无冷凝) Relative humidity (Non-condensing)	Max.95%	Max.95%
尺寸 Dimensions	88×88×24mm	88×88×24mm
重量 Weight	0.1Kg	0.3Kg
防护等级 Degrees of protection	IP 22	IP 44



型号名称 Type and name	SMC-BS10 火灾声光报警器 Audible and visual fire alarm	DI-BS10 工作间隔离单元 Cabin isolation unit	LIC-BS10 线路隔离器 Line isolator
工作电压 Working voltage	DC 18V-26V	DC 18V-26V	18 ~ 26V DC
功耗 Power consumption	静态 Static status	回路 Loop : ≤ 0.42 mA, DC24V: ≤ 6.5mA	回路 Loop : ≤ 0.38 mA DC24V: ≤ 1.2mA
	动作状态 Action status	回路 Loop: ≤ 1.5 mA, DC24V: ≤ 300 mA	回路 Loop : ≤ 1.5 mA DC24V: ≤ 10 mA
执行标准 Standard	EN54-3	—	—
声压级 Sound level	≥ 90db	—	—
工作温度 Working temperature	-25°C~+70°C	-25°C~+70°C	-25°C~+70°C
相对湿度 (无冷凝) Relative humidity (Non-condensing)	Max.95%	Max.95%	Max.95%
尺寸 Dimensions	239X120X92 mm	239X120X68 mm	Φ105X43 mm
重量 Weight	0.8Kg	0.7Kg	0.2Kg
防护等级 Degrees of protection	IP 44	IP 44	IP 44 含防水底座 (Include water-proof base)

技术规格

Technical Specifications



型号名称 Type and name		IMC-BS10输入模块 Input module	RMC-BS10输入输出模块 Input / Output module	LB5现场控制盒 Local control box
工作电压 Working voltage		DC18V - 26V	DC18V - 26V	DC18V - 26V
功耗 Power consumption	静态 Static status	回路 Loop : ≤0.5 mA DC24V : ≥ 6.5mA ; ≤18mA	< 0.38mA	回路 Loop: ≤ 1mA DC24V: ≤ 18mA
	动作状态 Action status	回路 Loop : ≤1.5 mA DC24V : ≥20mA ; ≤45mA	< 2.6mA	回路 Loop: ≤ 3mA DC24V: ≤ 45mA
输入 / 输出模式 Input / output model		提供2种输入模式 (任选一种): — 无源触点输入 — 电流输入 (用于带开关量探测器) 2 type input signal(one can be used): — Dry contact input — Current input(used to connected conventional detector).	2组无源触点, 触点容量: 1A, DC30V Dry contact output 2, contact capacity 1A, DC30V	1组无源触点, 触点容量: 1A, DC30V Dry contact output 1, contact capacity 1A, DC30V
工作温度 Working temperature		-25°C~+70°C	-25°C~+70°C	-25°C~+70°C
相对湿度 (无冷凝) Relative humidity (Non-condensing)		Max.95%	Max.95%	Max.95%
尺寸 Dimensions		239X120X68 mm	239X120X68 mm	239X120X68 mm
重量 Weight		0.7Kg	0.7Kg	0.7Kg
防护等级 Degrees of protection		IP 44	IP 44	IP 44

其它配件

Other Parts



型号名称 Type and name	DB-BS10探测器底座 Detector base	DBF-BS10探测器防水底座 Detector water-proof base	LIC-BS10探测器隔离底座 Detector isolating base	SJX手动火灾报警按钮接线盒 Junction box for manual call point	AD-BS10地址编码器 Address programme
功能描述 Function description	与BS10系列感烟感温探测器配套使用 used with BS10 series smoke or heat detector together.	与BS10系列感烟感温探测器和DB-BS10探测器底座配套使用, 满足防水等级要求 Used with BS10 series smoke or heat detector and DB-BS10 detector base, in order to enhance their IP degree.	与BS10系列感烟感温探测器配套使用, 实现隔离功能 used with BS10 series smoke or heat detector, in order to isolate the wires if they are short.	用于J-SAP-BS10手动火灾报警按钮的外露式安装 This junction box is used to fix the manual call point outside.	用于BS10系列总线器件的地址设定及功能测试 Used to set the BS10 series bus-device's address and test their functions.
工作温度 Working temperature	-25°C~+70°C	-25°C~+70°C	-25°C~+70°C	-25°C~+70°C	5°C~+55°C
尺寸 Dimensions	Φ103X14 mm	140X128X41 mm	Φ105X28 mm	87X87X32 mm	180X109X39 mm
重量 Weight	0.1Kg	0.2Kg	0.1Kg	0.1Kg	0.4Kg

无锡蓝天电子股份有限公司
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