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JB-QBC-BS10

Fixed fire detection and fire alarm system

Fixed water-based fire detection and fire-fighting system



WWW.BSKY.CN

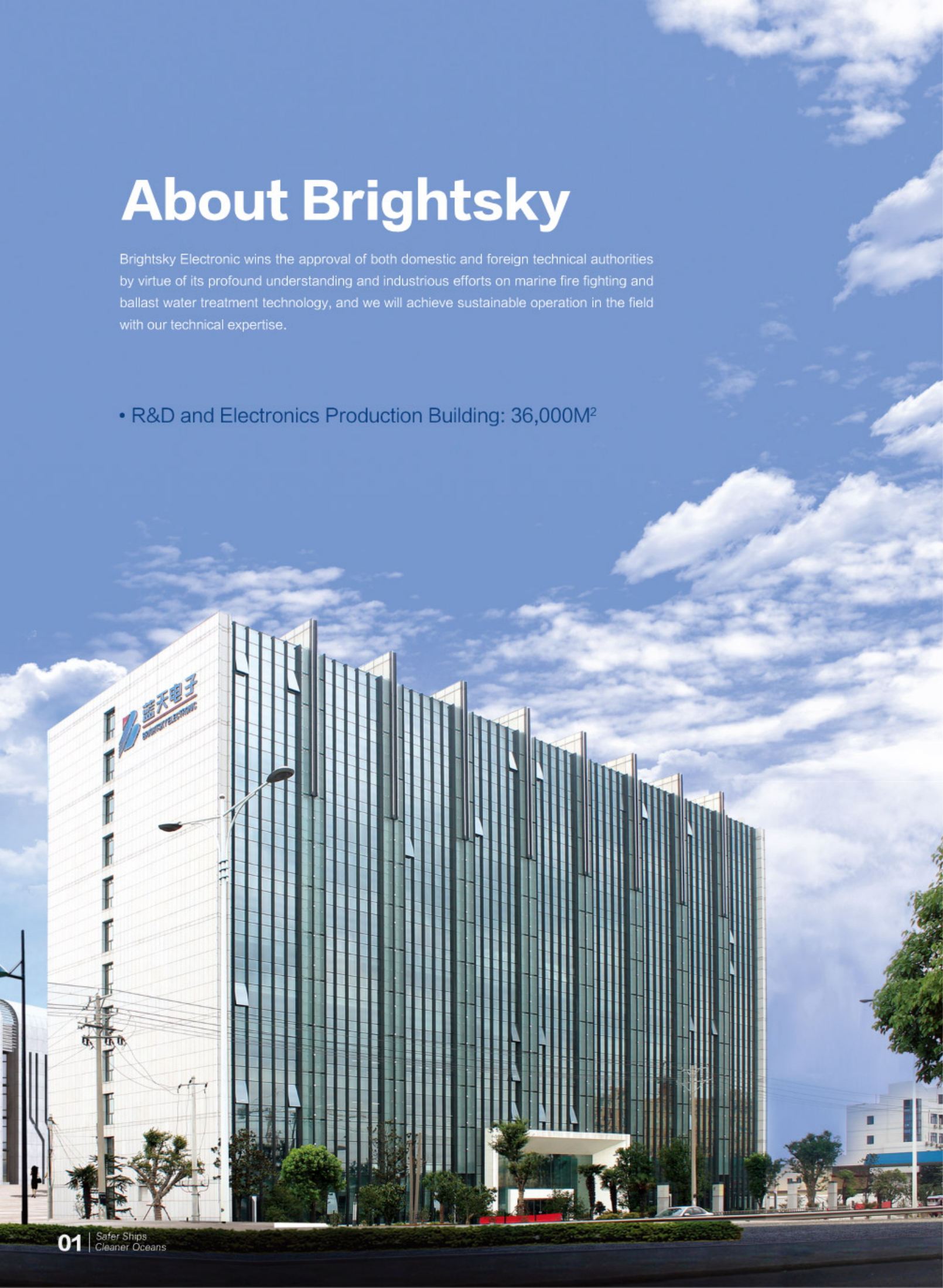
The sole European Union MED Laboratory Certification obtained in China.
The system is granted with Invention Patent Certificate, Utility Model Patent Certificate,
and Design Patent Certificate.



About Brightsky

Brightsky Electronic wins the approval of both domestic and foreign technical authorities by virtue of its profound understanding and industrious efforts on marine fire fighting and ballast water treatment technology, and we will achieve sustainable operation in the field with our technical expertise.

- R&D and Electronics Production Building: 36,000M²



Perfect production site guarantees high product quality

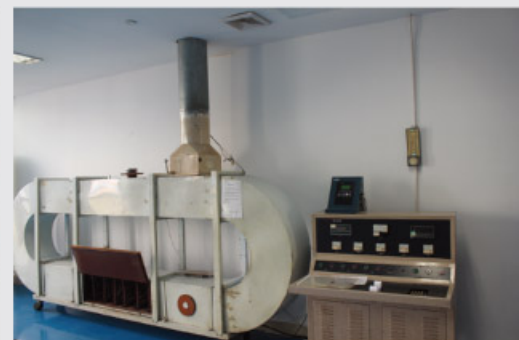
Electronic products assembling workshop



SMT surface mounting line



EMC Test Room for Electronic Products

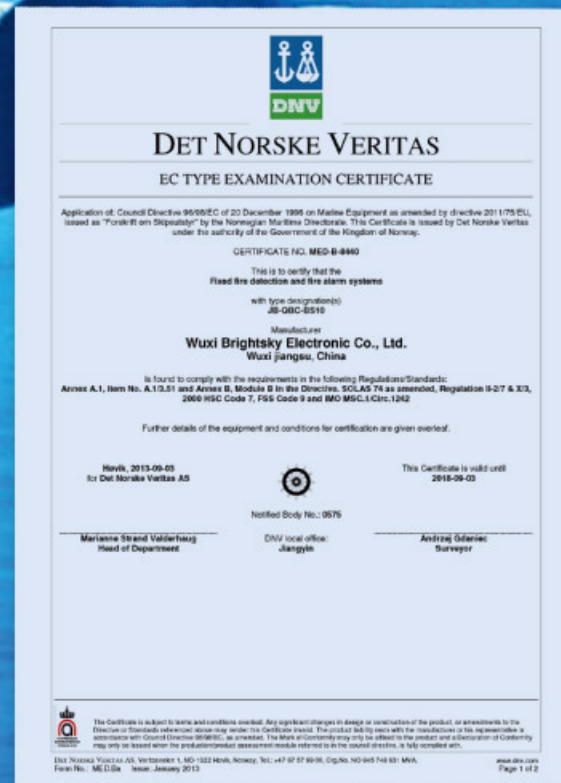
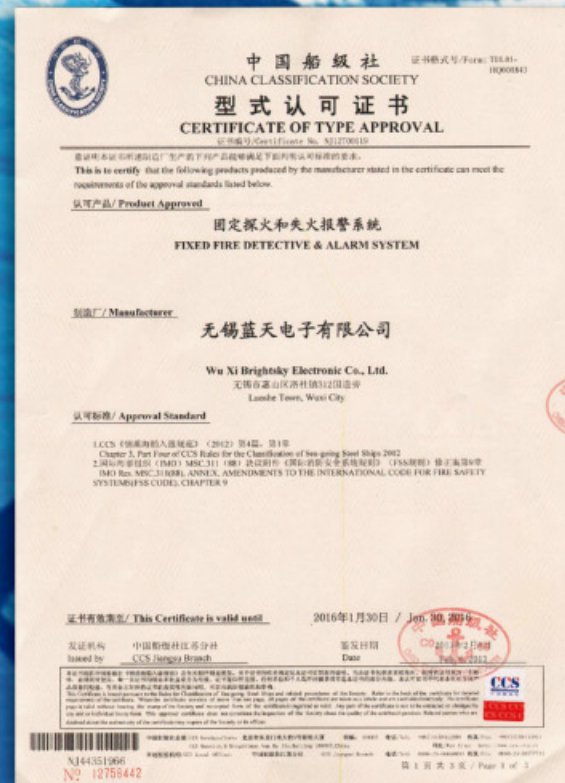


Smoke Box, Incubator and Test Wind Funnel Laboratory

JB-QBC-BS10 System Certification

The system obtains the sole certification of European Union MED Laboratory in China, the type approval of DNV and CCS, and national-level Invention Patent Certificate, Utility Model Patent Certificate, and Design Patent Certificate.

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



In progress...



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

In today' s world, mass goods still rely on water transport, so it' s very important to guarantee the personal and property safety at sea and prevent pollution. In fire prevention, the fixed fire detection and fire alarm system and the local water-based fire fighting system can more accurately discover a fire and effectively put out the fire.

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.



Applied in 22 sightseeing boats and ferryboats in Huangpu River during Shanghai Expo.



In progress...

Zhenghe Shipbuilding
Applied in 57,000 DWT Bulk Carrier



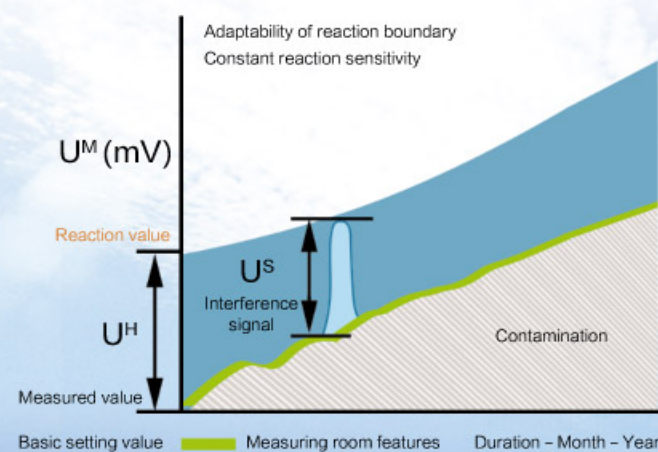
Highly Evolved Perceptivity

In order to adapt to frequently changing living environment and survive in the world with threats, we shall have highly evolved perceptivity and thinking ability. Actually, high perception of danger and correct judgment of dangerous level is an important matter of life or death.

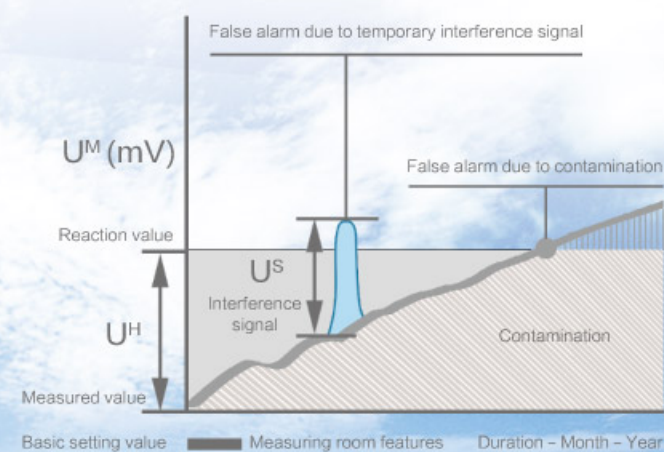
Secret of Reducing False Alarm

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 has a sensitivity relatively constant to external environment.

Features of Brightsky Fire Alarm System



Features of Normal Detectors



Fire Detector

Provide Accurate Information for Taking Early Actions



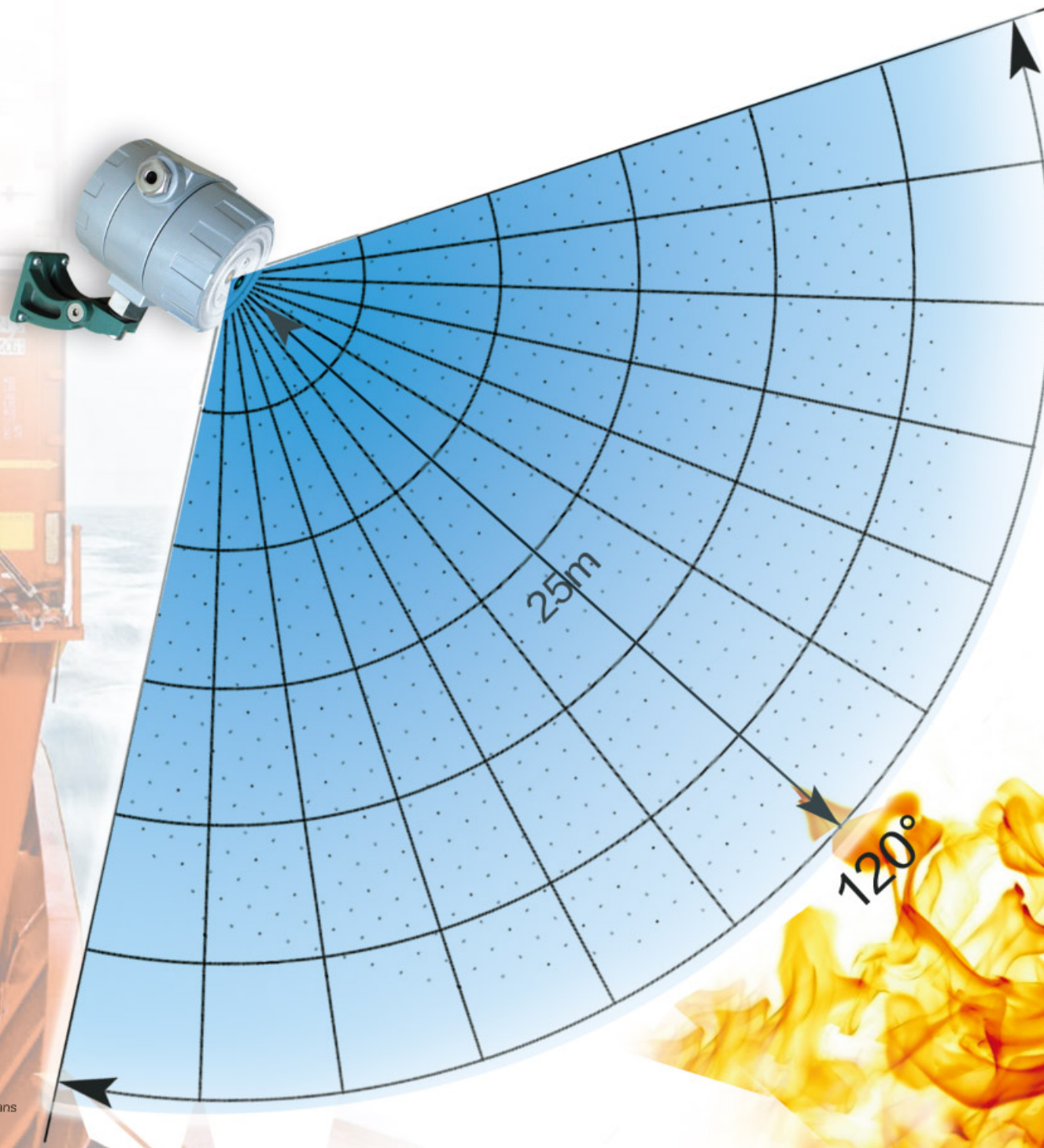
BS10 Photoelectric Smoke Detector

Dural Band Infrared Ray + Dynamic Flash Frequency Identification

Effectively Prevent False Alarm Caused by Non-combustion

Effective Detection Zone

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.



Rapid & Reliable

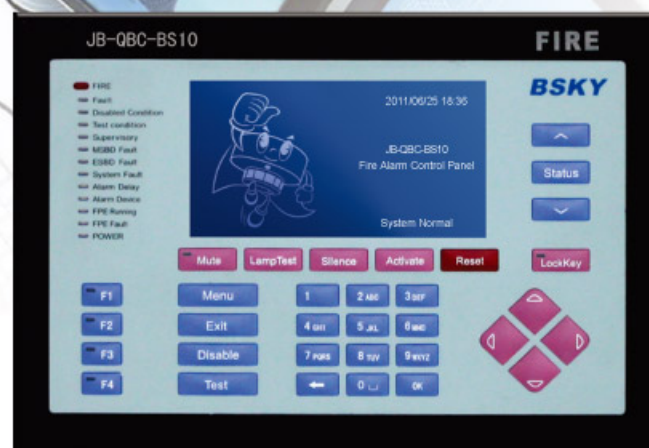
Leave No Chance for Fire to Rage



BS10 Point-type Infrared Flame Detector

Provide Accurate Information for Taking Early Actions

- Addressing bus shared by fire detection and fire control.
- Digital address of alarm point can be converted to the name of monitored room.
- LCD can display multi-source information at the same time in Chinese or English switchable.



Provide Extensive Information

240 × 128 dot matrix blue LCD can provide extensive information, including fire alarm, failure, isolation, monitoring, and starting, etc. Meanwhile, corresponding operation tips are given on the LCD.



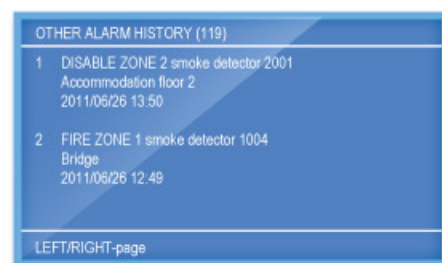
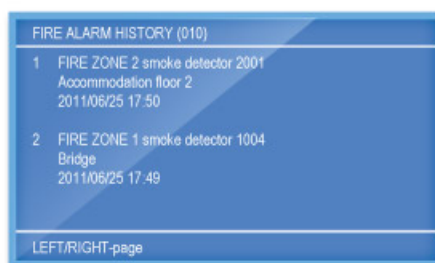
Easy to Operate

You can press the status key and Page Up/Page Down key to view detailed alarm information under different conditions so as to achieve alarm monitoring and control.



Record Fire Alarm and Other Information

The controller can record at most 999 pieces of fire alarm information and 999 pieces of other information, including: monitoring, linkage, failure, shielding, and testing.

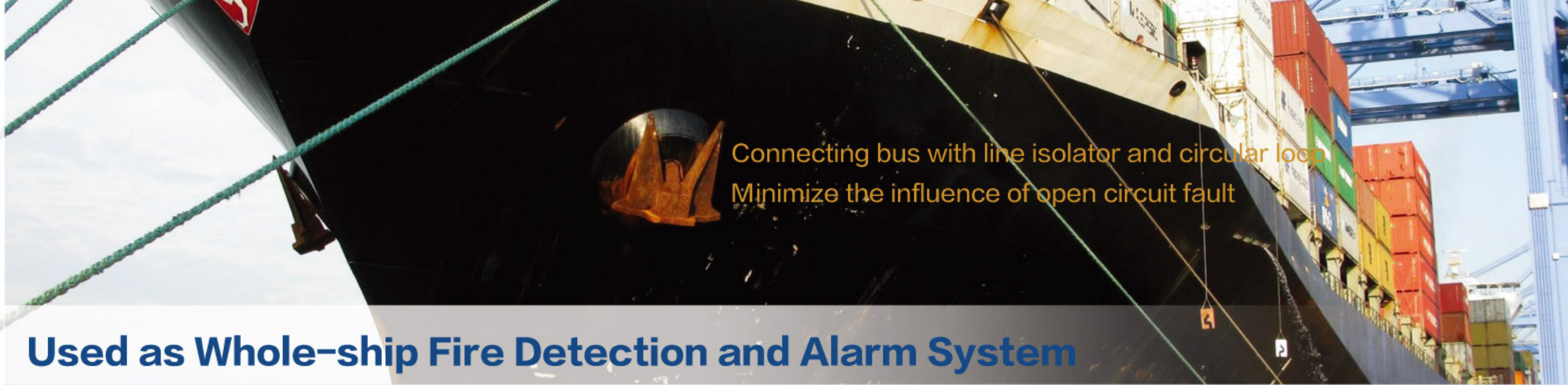


Fire Alarm Controller

Helps People to Stifle Fire in the Cradle

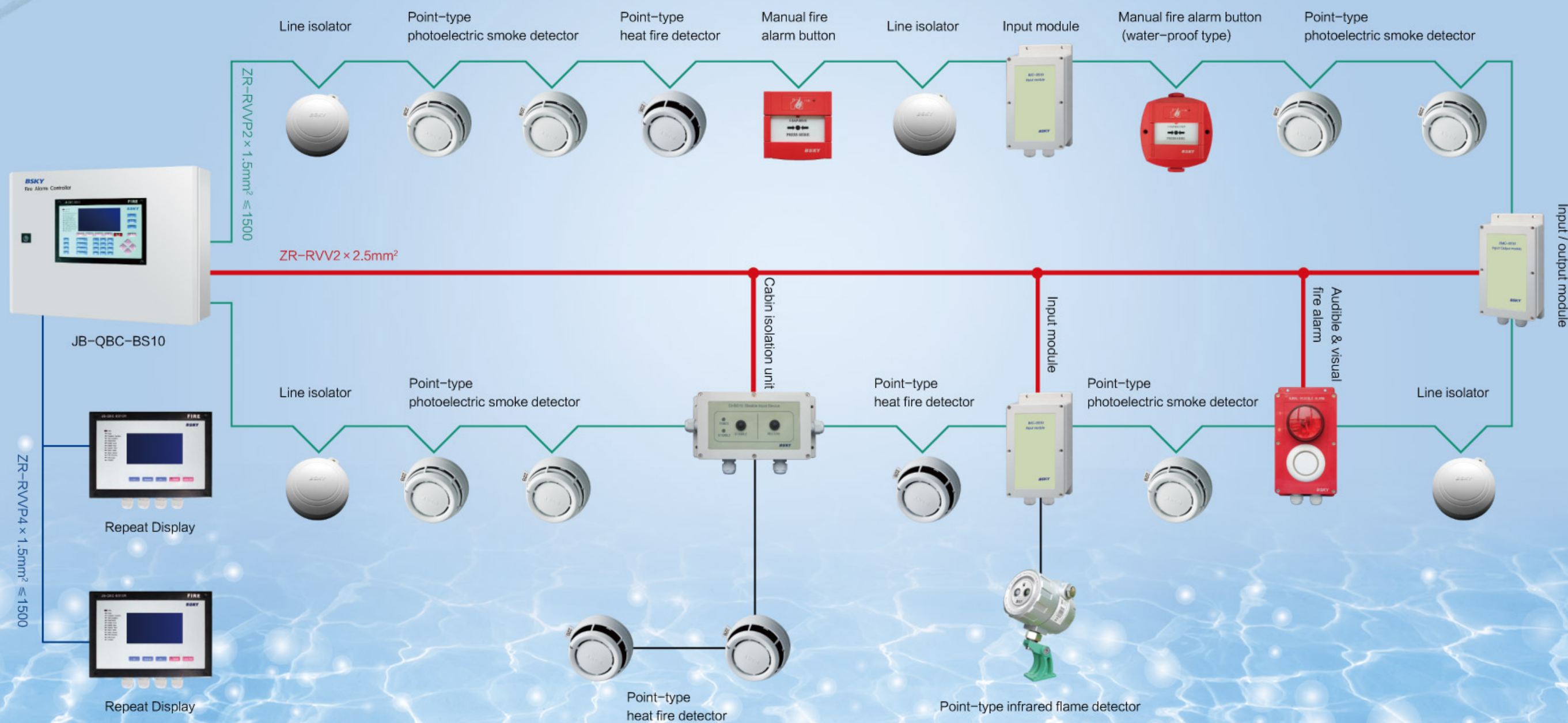


BS10 Fire Alarm Controller



Connecting bus with line isolator and circular loop
Minimize the influence of open circuit fault

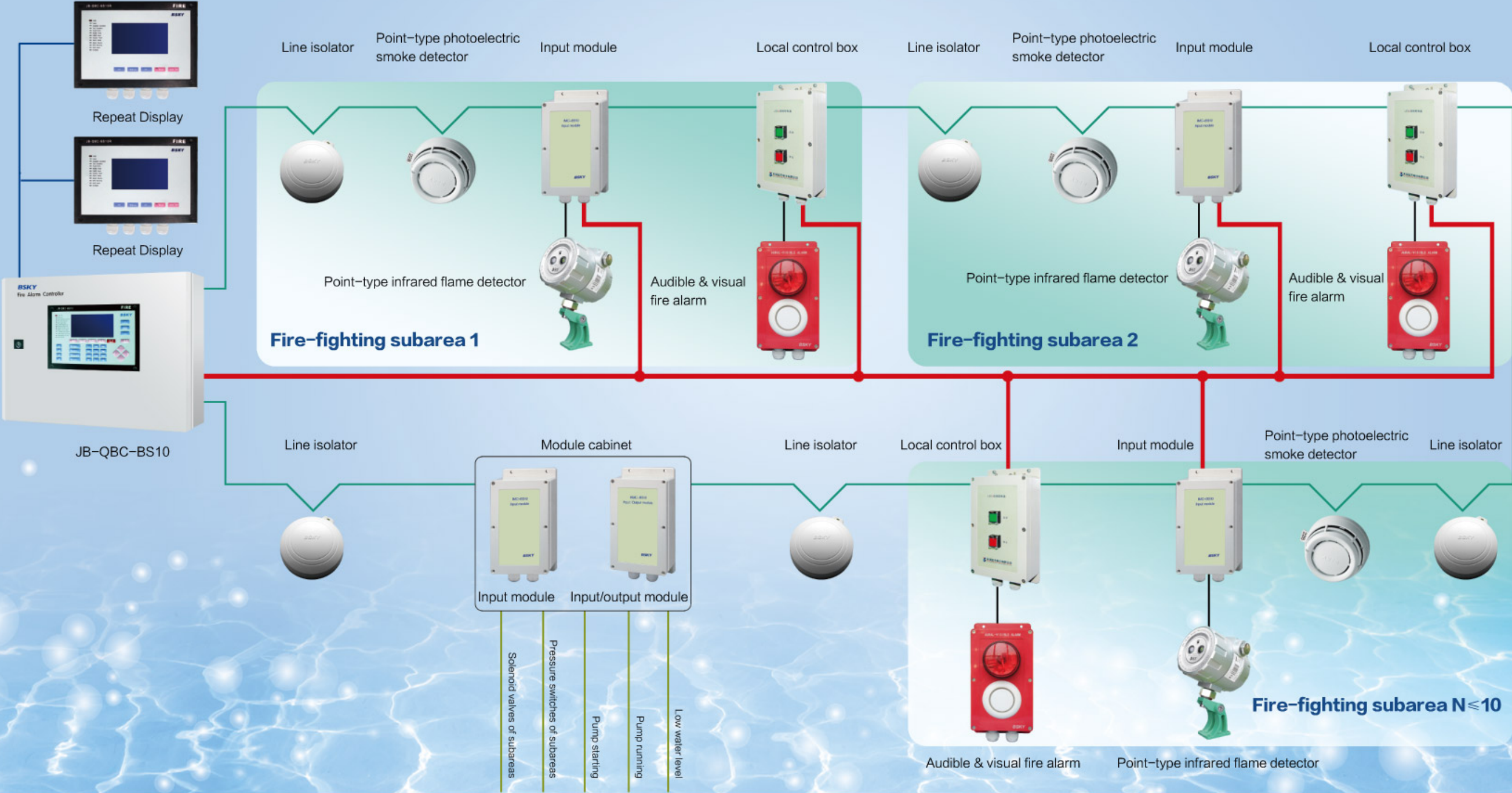
Used as Whole-ship Fire Detection and Alarm System





The system is equipped with test function and
can clear troubles early

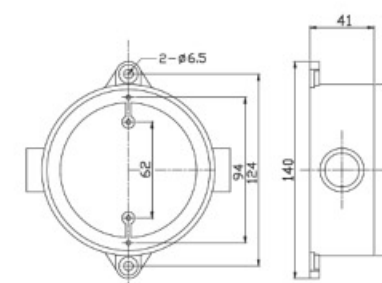
Used as fixed water-based fire control system



Technical Specifications



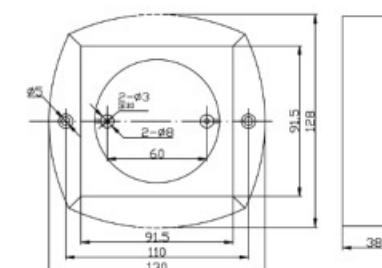
Type	JB-QBC-BS10 Fire alarm controller	JB-QBC-BS10 Fire indication panel
Main power supply	AC 110 / 220V (+10% ~ -15%), 50HZ / 60HZ	DC 24V ± 10%
Emergency power supply	AC 110 / 220V (+10% ~ -15%), 50HZ / 60HZ	
Backup DC power for ships	(+30% ~ -25%) DC 24V 10%	
Internal battery	DC 24V, 2.2AH	
Power consumption	Monitoring status: ≤ 10W; Alarm status: ≤ 12W	Monitoring status: ≤ 1.5W; Alarm status: ≤ 2.4W
Number of loop boards	Two at most	
Capacity of each loop board	4 circular loops with 128 alarm points each	
Alarm time of manual alarm	≤ 5s	
Alarm time of detector	≤ 10s	
Loop Line length	≤ 1500M	≤ 1500M
Line length between detector and fire indication panel	≤ 1500M	
Way of wiring	BS10-series alarm point - 2 wiring system, non-polar BS10-series module - 4 wiring system	
Specification of wire used in the system	Signal wire: 1.5mm ² shielded fire retardant twisted-pair wire Power wire: 2.5mm ² fire retardant twisted-pair wire	Signal wire and power wire: 1.5mm ² or larger shielded fire retardant wire
Fire protection zone	10 fire protection zones at most	
Output contacts of controller	Fire alarm relay output (FIRE1~FIRE6) Fire alarm time-delay relay output (B1/B2) PA relay output Door stopper relay output Fault relay output (FAULT1~FAULT4) Power fault relay output (POW.FAU1/POW.FAU2) System fault relay output (SYS.FAU1/SYS.FAU2)	
2 sets of passive input contacts	IN1/IN2	
Working temperature	5°C ~ 55°C	5°C ~ 55°C
Working humidity	≤ 95%	≤ 95%
Installation dimensions	515 × 525 × 146mm ³	245 × 176 × 102mm ³
Way of installation	Wall-mounted / Embedded	Wall-mounted / Embedded
Weight	About 22Kg	About 2.2Kg
Fire alarm history records	999 records at most	
Other history records	999 records at most	
Protection class	IP32	IP22



FB5i Water-proof Base | Overall Dimensions



Type	JTY-GD-BS10 Point-type photoelectric smoke detector	JTW-ZD-BS10 Point-type heat fire detector
Working voltage	DC 18V~26V	DC 18V~26V
Power consumption	Static status	≤ 0.35mA
	Alarm status	≤ 1.5mA
	Current provided for external indicating lamp	≤ 1.2mA
Working temperature	-25°C ~ 70°C	-25°C ~ 70°C
Working environment	EN-54/7	EN-54/5
Relative humidity (Non-condensing)	95% RH	95% RH
Sensitivity	EN-54/9	EN-54/5
Weight including base	0.126Kg	0.11Kg
Protection class	IP 44	IP 44



SFB5i Water-proof Base | Overall Dimensions



Type	J-SAP-BS10 Manual fire alarm button	J-SAP-BS10WP Manual fire alarm button
Working voltage	DC 18V~26V	DC 18V~26V
Power consumption	Static status	≤ 0.35mA
	Alarm status	≤ 1.5mA
Working temperature	-25°C ~ 70°C	-25°C ~ 70°C
Working environment	EN-54/11	EN-54/11
Storage temperature	-40°C ~ 80°C	-40°C ~ 80°C
Relative humidity (Non-condensing)	95% RH	
Weight	0.1Kg	0.3Kg (Including water-proof base)
Protection class	IP 22	IP 44

Exemplary BS10 System

Creating a new concept of fire–smoke detection and alarm network



Technical Specifications

Type		TG-IR-BS10 Point-type infrared flame detector	JTG-ZW-5Ei Point-type ultraviolet flame detector
Working voltage		DC 18V–26V	
Indicating lamp		During time delay: Normally on, green Normal working status: Flashing, green Alarm status: Normally on, red	Flashing, red Normally on, red
Power consumption	Static status	≤ 25mA	≤ 25mA
	Alarm status	≤ 35mA	≤ 35mA
Power-up delay time		30S	6S
Capacity of relay contact		2A, 30V DC	1A, DC24V
Working temperature		–25°C ~ 70°C	–25°C ~ 70°C
Working environment		EN54–10	EN54–10
Relative humidity (Non–condensing)		Max.95% RH	Max.95% RH
Weight		1.9Kg	1.9Kg
Visual angle		90°	
Protection class		IP 44	IP 44



Type		DI-BS10 Cabin isolation unit	LIC-BS10 Line isolator
Working voltage		DC 18V–26V	
Indicating lamp		DC24V power indicator: green Isolation indicator: yellow	
Power consumption	Static status	Loop: ≤ 0.38mA DC24V: ≤ 1.2mA	< 0.78mA
	Alarm status	Loop: ≤ 1.5mA DC24V: ≤ 10.0mA	< 4.6mA
Working temperature		–25°C ~ 70°C	–25°C ~ 70°C
Working environment		EN–54/5,7	EN–54/7
Relative humidity (Non–condensing)		Max.95% RH	Max.95% RH
Weight		0.625Kg	0.129Kg
Protection class		IP 44	IP 44



Type		IMC-BS10 Input module	RMC-BS10 Input / output module
Input / output mode		Configurable (input)	Two sets of passive contacts (output)
Working voltage		DC 18V–26V	
Power consumption	Static status	Loop: ≤ 0.5mA DC24V: ≤ 18mA	Loop: ≤ 0.38mA DC24V: ≤ 2mA
	Alarm status	Loop: ≤ 1.5mA DC24V: ≤ 45mA	Loop: ≤ 2.6mA DC24V: ≤ 18mA
Working temperature		–25°C ~ 70°C	–25°C ~ 70°C
Working environment		EN–54/5,7	EN–54/5,7
Storage temperature		–20°C ~ 70°C	–20°C ~ 70°C
Relative humidity (Non–condensing)		Max.95% RH	Max.95% RH
Weight		0.175Kg	0.175Kg
Protection class		IP 44	IP 44

Exemplary BS10 System

Creating a new concept of fire–smoke detection and alarm network



Technical Specifications

Type	SMC-BS10 Audible and visual fire alarm		LB5i Local control box	AD-BS10 Address encoder
Working voltage	DC 18V–26V		DC 18V–26V	
Power consumption	Static status	Loop: $\leq 0.42\text{mA}$ DC24V: $\leq 6.5\text{mA}$	Loop: $\leq 1\text{mA}$ DC24V: $\leq 18\text{mA}$	$\leq 1.75\text{mA} / \text{DC24V}$
	Alarm status	Loop: $\leq 1.5\text{mA}$ DC24V: $\leq 300\text{mA}$	Loop: $\leq 3\text{mA}$ DC24V: $\leq 45\text{mA}$	$\leq 2.5\text{mA} / \text{DC24V}$
Sound pressure level	$\geq 90\text{db}$			
Working temperature	$-25^{\circ}\text{C} \sim 70^{\circ}\text{C}$		$-25^{\circ}\text{C} \sim 70^{\circ}\text{C}$	
Working environment	EN54–3			
Relative humidity (Non–condensing)	Max. 95% RH		Max. 95% RH	
Weight	0.78Kg		0.18Kg	
Protection class	IP 44		IP 44	

Protection Area and Radius of Smoke / Heat Detector

Code for Design of Automatic Fire Alarm System GB50116

Type of fire detector	Floor area S (m ²)	Room height H (m)	Protection area A and protection radius R of detector					
			Roof slope θ					
			$\theta \leq 15^{\circ}$		$15^{\circ} < \theta \leq 30^{\circ}$		$\theta > 30^{\circ}$	
			A (m ²)	R (m)	A (m ²)	R (m)	A (m ²)	R (m)
Smoke detector	$S \leq 80$	$H \leq 12$	80	6.7	80	7.2	80	8.0
	$S > 80$	$6 < H \leq 12$	80	6.7	100	8.0	120	9.9
		$H \leq 12$	60	5.8	80	7.2	100	9.0
Heat detector	$S \leq 30$	$H \leq 8$	30	4.4	30	4.9	30	5.5
	$S > 30$	$H \leq 8$	20	3.6	30	4.9	40	6.3