

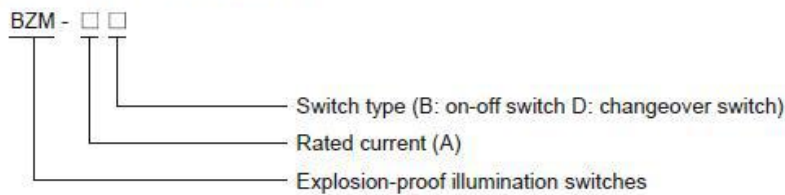


### Installation Switches

#### BZM Series Explosion-proof Illumination Switches

- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in Zone 1 and Zone 2
- ◆ Copper-free aluminium enclosure; powder coated external surface.
- ◆ Two options:
  - On-off switch
  - Changeover switch

#### Catalogue number logic



#### Selection table

Type/Ordering code	Chart of contact	Corresponding switch	Weight (kg)																														
BZM-16B	<table border="1"> <tr> <td></td> <td>o</td> <td>I</td> <td>o</td> <td>I</td> </tr> <tr> <td></td> <td>0°</td> <td>90°</td> <td>180°</td> <td>270°</td> </tr> <tr> <td>1o</td> <td></td> <td>x</td> <td></td> <td>x</td> </tr> <tr> <td>3o</td> <td></td> <td>x</td> <td></td> <td>x</td> </tr> <tr> <td>5o</td> <td></td> <td>x</td> <td></td> <td>x</td> </tr> <tr> <td>7o</td> <td></td> <td>x</td> <td></td> <td>x</td> </tr> </table>		o	I	o	I		0°	90°	180°	270°	1o		x		x	3o		x		x	5o		x		x	7o		x		x		0.85
	o	I	o	I																													
	0°	90°	180°	270°																													
1o		x		x																													
3o		x		x																													
5o		x		x																													
7o		x		x																													
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## Zones 1&2

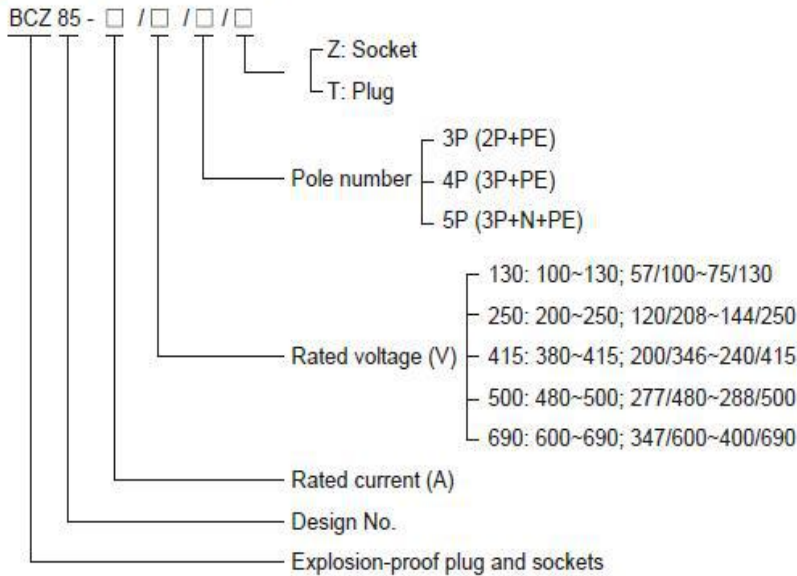


### Plug and Sockets

#### BCZ85 Series Explosion-proof Plug and Sockets










































- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- ◆ Four enclosure types; Four current ratings (16A, 32A, 63A, 125A); 3P, 4P or 5P.
- ◆ Plug can only be pulled out when switch is off; turn on the power after inserting the plug.
- ◆ Copper-free aluminium enclosure; powder coated external surface.

#### ■ Catalogue number logic



Zones 1&2; 21&22

## Selection table

Type	Current (A)	Voltage (V)	Pole number	Schematic diagram	h	Colour	Ordering code	Weight (kg)
BCZ85-16/□/□ 	16	100~130	2P+PE		4	Yellow	30147	2.60
		200~250			6	Blue	30148	2.60
		100~130	3P+PE		4	Yellow	30149	2.60
		200~250			9	Blue	30150	2.60
		380~415			6	Red	30151	2.60
		480~500			7	Black	30152	2.60
		600~690			5	Black	30153	2.60
		57/100~75/130			4	Yellow	30154	2.60
		120/208~144/250	3P+N+PE		9	Blue	30155	2.60
		200/346~240/415			6	Red	30156	2.60
		277/480~288/500			7	Black	30157	2.60
		347/600~400/690			5	Black	30158	2.60
								
		BCZ85-32/□/□ 	32	200~250	2P+PE		6	Blue
200~250	3P+PE				9	Blue	30160	3.40
380~415					6	Red	30161	3.40
480~500					7	Black	30162	3.40
600~690					5	Black	30163	3.40
120/208~144/250	3P+N+PE				9	Blue	30164	3.40
200/346~240/415					6	Red	30165	3.40
277/480~288/500					7	Black	30166	3.40
347/600~400/690					5	Black	30167	3.40
								
BCZ85-63/□/□ 	63	200~250	3P+PE		9	Blue	30168	4.50
		380~415			6	Red	30169	4.50
		480~500			7	Black	30170	4.50
		600~690			5	Black	30171	4.50
		120/208~144/250	3P+N+PE		9	Blue	30172	4.50
		200/346~240/415			6	Red	30173	4.50
								
BCZ85-125/□/□ 	125	200~250	3P+PE		9	Blue	30174	20.0
		380~415			6	Red	30175	20.0
		480~500			7	Black	30176	20.0
		600~690			5	Black	30177	20.0
		120/208~144/250	3P+N+PE		9	Blue	30178	20.0
		200/346~240/415			6	Red	30179	20.0
								



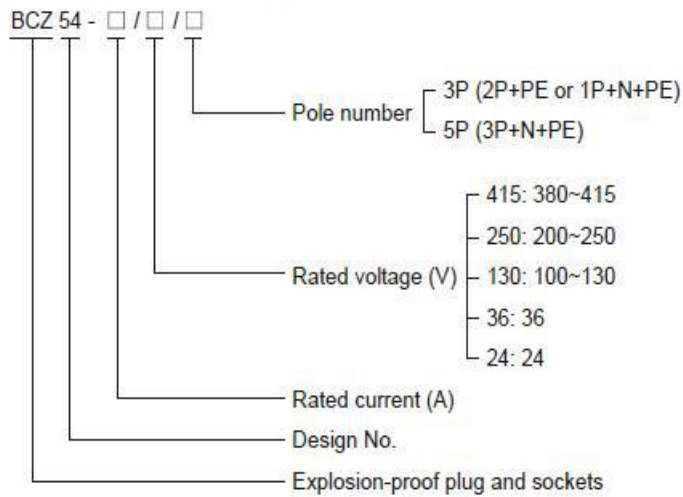


## Plug and Sockets

### BCZ54 Series Explosion-proof Plug and Sockets

- ◆ Explosion protection to
  - CENELEC
  - IEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- ◆ 2 enclosure types; 4 current ratings (16A,32A,63A,100A); 3P or 5P.
- ◆ Plug can only be pulled out when switch is off; turn on the power after inserting the plug.
- ◆ Canopy is recommended for outdoor use.
- ◆ Copper-free aluminium enclosure; powder coated external surface.

















#### ■ Catalogue number logic



Zones 1&2; 21&22



## Selection table

Type	Voltage (V)	Pole number	Schematic diagram	Ordering code	Weight (kg)
	380~415	3P+N+PE		30011	3.25
	200~250	1P+N+PE		30012	3.10
	100~130	1P+N+PE		30013	3.10
	36	2P+PE		30014	3.10
	24	2P+PE		30015	3.10
	380~415	3P+N+PE		30016	3.35
	200~250	1P+N+PE		30017	3.20
	100~130	1P+N+PE		30018	3.20
	36	2P+PE		30019	3.20
	24	2P+PE		30020	3.20
	380~415	3P+N+PE		30021	30.30
	380~415	3P+N+PE		30022	30.30

Note: Plug and sockets are supplied as one complete set when ordering according to the above ordering code.



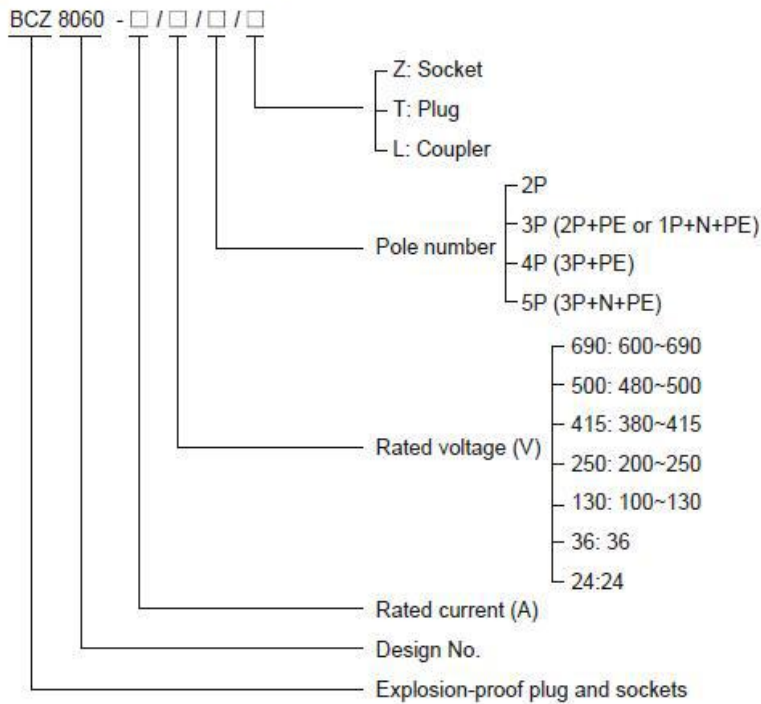


## Plug and Sockets

### BCZ8060 Series Explosion-proof Plug and Sockets

- ◆ Explosion protection to
  - CENELEC
  - IEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- ◆ 2P, 3P, 4P and 5P
- ◆ Plug can only be pulled out when switch is off; turn on the power after inserting the plug.
- ◆ GRP (glass fibre-reinforced polyester resin)

#### ■ Catalogue number logic



Zones 1&2; 21&22



## Selection table

Type	Voltage (V)	Current (A)	Pole number	Schematic diagram	h	Ordering code	Weight (kg)
	600~690	16	3P+PE		5	30047	1.85
	480~500	16	3P+PE		7	30048	1.85
	380~415	16	3P+N+PE		6	30049	1.85
		16	3P+PE		6	30050	1.85
	200~250	16	3P+N+PE		6	30051	1.85
		16	3P+PE		9	30052	1.85
		16	1P+N+PE		6	30053	1.85
	100~130	16	1P+N+PE		4	30054	1.85
	36	16	2P+PE		12	30055	1.80
		16	2P			30056	1.80
	24	16	2P+PE		12	30057	1.80
		16	2P			30058	1.80
		600~690	32	3P+PE		5	30059
480~500		32	3P+PE		7	30060	2.85
380~415		32	3P+N+PE		6	30061	2.85
		32	3P+PE		6	30062	2.85
200~250		32	3P+N+PE		6	30063	2.85
		32	3P+PE		9	30064	2.85
	380~415	63	3P+N+PE	/	/	30065	14.90
		63	3P+PE	/	/	30066	14.90
	200~250	63	1P+N+PE	/	/	30067	14.90
	600~690	125	3P+PE		5	30068	16.00
	480~500	125	3P+PE		7	30069	16.00
	380~415	125	3P+N+PE		6	30070	16.00
		125	3P+PE		6	30071	16.00
	200~250	125	3P+N+PE		6	30072	16.00
		125	3P+PE		9	30073	16.00



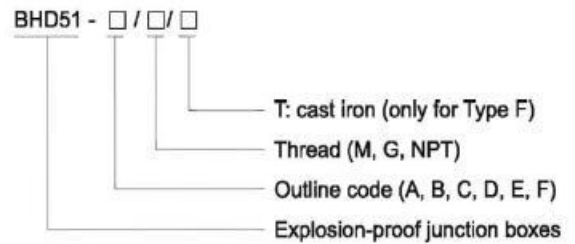


## Junction Boxes

### BHD51 Series Explosion-proof Junction Boxes

- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A, B, C, D
- ◆ Six types: A, B, C, D, E, F.
- ◆ Type A, B, C, D, E in copper-free aluminium only; Type F in copper-free aluminium or cast iron.

#### ■ Catalogue number logic



#### Selection table

Type/Ordering code	Schematic diagram	Weight (kg)	
BHD51-A/M20 x 1.5	Type A 	0.70	
BHD51-A/M25 x 1.5			
BHD51-B/M20 x 1.5	Type B 	0.70	
BHD51-B/M25 x 1.5			
BHD51-C/M20 x 1.5	Type C 	0.70	
BHD51-C/M25 x 1.5			
BHD51-D/M20 x 1.5	Type D 	0.70	
BHD51-D/M25 x 1.5			
BHD51-E/M20 x 1.5	Type E 	0.70	
BHD51-E/M25 x 1.5			
BHD51-F/M25 x 1.5	Type F 	Copper-free aluminium	0.80
		Cast iron	2.10

# Zones 1&2; 21&22





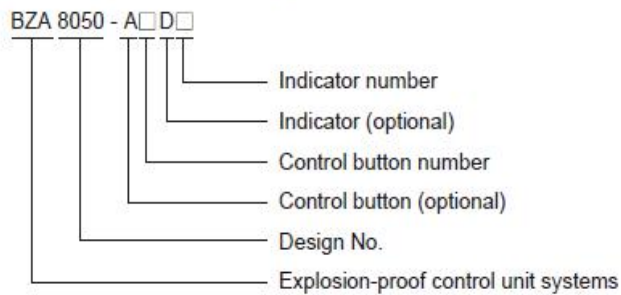
## Control Unit Systems

### BZA8050 Series Explosion-proof Control Unit Systems

- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- ◆ GRP (glass fibre-reinforced polyester resin)
- ◆ Three enclosure types
- ◆ Individual unit can be combined into larger units.



#### ■ Catalogue number logic



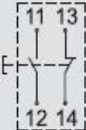




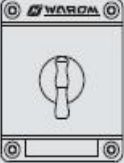
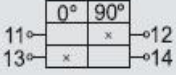

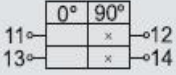
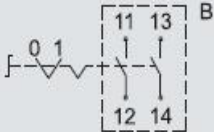
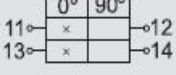
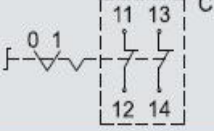
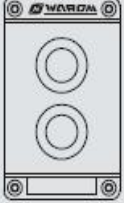



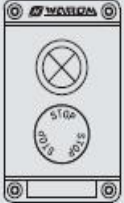



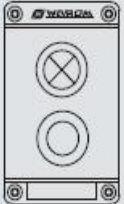

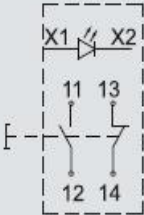



#### ■ Note

1. Please refer to the Selection Table on P4/21~22.
2. Please select internal components as below:
  - BA8050 explosion-proof control button selection table on P4/36~39 (Nominal contact is 1NO+1NC)
  - BD8050 explosion-proof indicator selection table on P4/40~42
3. Example: BZA8050-A2
  - Components: two control buttons
  - Tech. Details: One start control button (40092B + 40090-1+40091-1, green, 1NO+1NC);  
One stop control button (40092A+ 40090-1+40091-1, red, 1NO+1NC),
4. Special requirements on request.

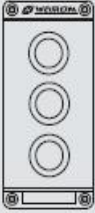























Zones 1&2; 21&22

## Selection table

Outline	Colour	Chart of contact	Ordering code	Weight (kg)
Spring-return button 	Red 		40063A	0.65
	Green 		40063B	
Mushroom stay-put emergency button 	Red 		40064	0.65
Rotary button 			40065A	0.65
			40065B	0.65
			40065C	0.65
Spring-return button 	Green 		40066	0.85
	Red 			
Indicator and mushroom stay-put emergency button 	Red 		40067	0.85
	Red 			
Indicator and spring-return button 	Red 		40068	0.85
	Red 			



### Selection table

Outline	Colour	Chart of contact	Ordering code	Weight (kg)
Spring-return button 	Yellow 		40069	1.10
	Green 			
	Red 			
Spring-return button and indicator 	Red 		40070	1.10
	Green 			
	Red 			
Spring-return button and mushroom stay-put emergency button 	Green 		40071	1.10
	Red 			
	Red 			
Spring-return button and rotary button 	Green 		40072	1.10
	Red 			
	Red 			
Indicator, spring-return button and mushroom stay-put emergency button 	Red 		40073	1.10
	Red 			
	Red 			





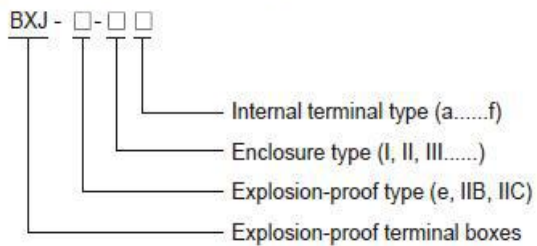
Ex d IIB

## Terminal Boxes

### BXJ Series Explosion-proof Terminal Boxes

- ◆ Explosion protection to
  - CENELEC
  - IEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- ◆ Three explosion-proof types (Ex e, Ex d IIB and Ex d IIC).
- ◆ Copper-free aluminium enclosure; powder coated external surface.
- ◆ Size and direction of cable entries can be customized on request.

#### ■ Catalogue number logic



Ex d IIC



Ex e

Zones 1&2; 21&22



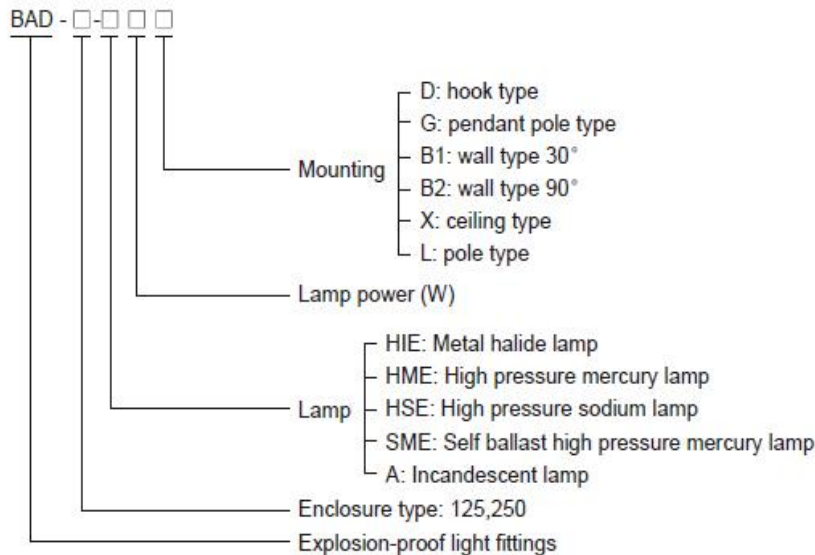


## Pendant Light Fittings

### BAD Series Explosion-proof Light Fittings

- ◆ Explosion protection to
  - CENELEC
  - IEC
- ◆ Can be used in
  - Zone 1 and Zone 2
- ◆ Available lamp:
  - Metal halide lamp (HIE)
  - High pressure mercury lamp (HME)
  - High pressure sodium lamp (HSE)
  - Self ballast high pressure mercury lamp (SME)
  - Incandescent lamp (A)
- ◆ Two enclosure types: 125, 250.
- ◆ Fast opening, easy maintenance.
- ◆ Powder coated wire guard, white.
- ◆ Toughened glass cover resistant to temperature changes.

### ■ Catalogue number logic



### ■ Selection table

Type/Ordering code	Available lamp power (W)					Lamp holder	Weight (kg)
	HIE	HME	SME	HSE	A		
BAD-125	70, 100, 150	80, 125	125, 160	70, 100	200	E27	5.20
BAD-250	175, 250	175, 250	250	150, 250	300	E40	6.10

### ■ Note

1. Mounting accessories are not supplied with light fittings. Please specify when ordering (See Mounting Accessories & Spare Parts Table on P2/40~41)
2. The light fittings are supplied without lamp. PHILIPS lamps are recommended.
3. BAZ51 explosion-proof ballast is optional. See P2/88.
4. The light fittings are supplied without external reflector. Please specify when ordering.

# Zones 1&2



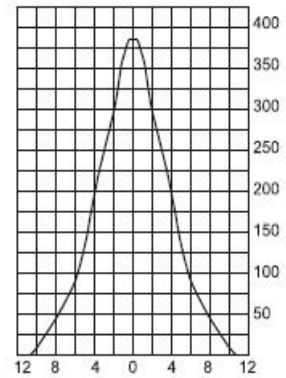
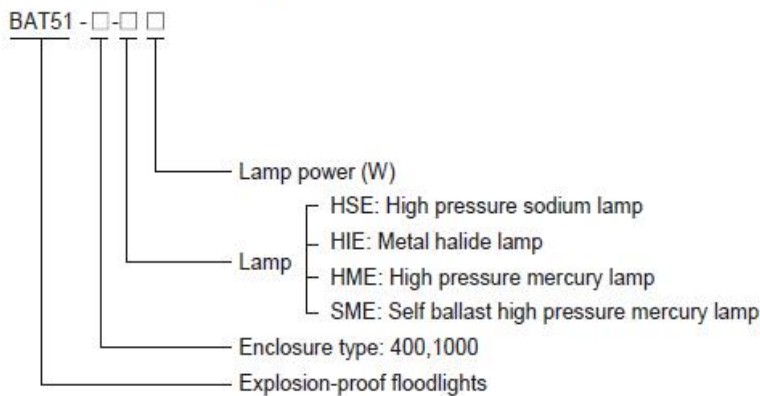


## Floodlights

### BAT51 Series Explosion-proof Floodlights

- ◆ Explosion protection to
  - CENELEC
  - IEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- ◆ Available lamp of E40 lamp holder:
  - High pressure sodium lamp (HSE)
  - Metal halide lamp (HIE)
  - High pressure mercury lamp (HME)
  - Self ballast high pressure mercury lamp (SME)
- ◆ Two enclosure types: 400, 1000.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL 1021).
- ◆ Installed on cradle to allow for all adjustments; adjustable in 60° or 90° .
- ◆ Toughened glass cover resistant to temperature changes.

#### Catalogue number logic



Luminous intensity distribution (cd/1000lm)

#### Selection table

Type/Ordering code	Available lamp power (W)				Weight (kg)
	HIE	HME	HSE	SME	
BAT51-400	175, 250, 400	175, 250, 400	150, 250, 400	250, 500	14.50
BAT51-1000	1000	-	1000	-	58.50

#### Note

1. 400 type light fittings are supplied without lamp and ballast. PHILIPS lamps are recommended.
2. 1000 type light fittings are supplied with lamp and ballast.
3. HPI European standard ballast is supplied with HIE light fitting. HPI European standard lamps are recommended.

Zones 1&2; 21&22

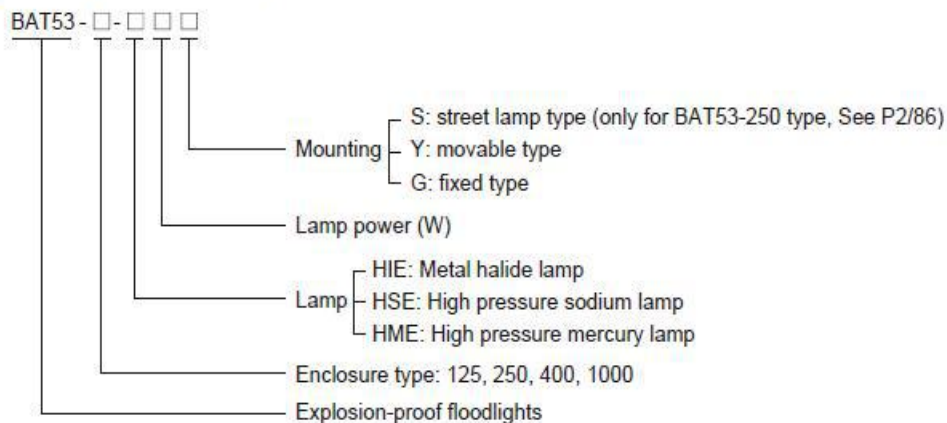


## Floodlights

### BAT53 Series Explosion-proof Floodlights

- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- ◆ Four enclosure types: 125, 250, 400, 1000.
- ◆ Integral control gear, easy installation and maintenance.
- ◆ Rapid starting trigger, stable performance and long service life.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).
- ◆ Toughened glass cover resistant to temperature changes.

### ■ Catalogue number logic



### ■ Selection table

Type/Ordering code	Available lamp power (W)			Lamp holder	Weight (kg)
	HIE	HSE	HME		
BAT53-125	70, 100, 150	70, 100	80, 125	E27	8.45
BAT53-250	175, 250	150, 250	175, 250	E40	14.75
BAT53-400	400	400	-	E40	30.75
BAT53-1000	1000	1000	-	E40	58.00

### ■ Note

1. Please specify any spare parts when ordering. See Accessories table.
2. 125, 250 and 400 type light fittings are supplied without lamp. PHILIPS lamps are recommended.
3. HPI European standard ballast is supplied with HIE light fitting. HPI European standard lamps are recommended.
4. 1000 type light fittings are supplied with lamp and ballast.

# Zones 1&2; 21&22

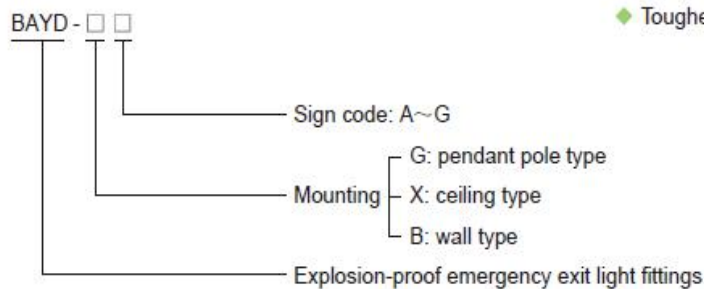


## Local, Caution Spotlight Fittings BAYD Series Explosion-proof Emergency Exit Light Fittings

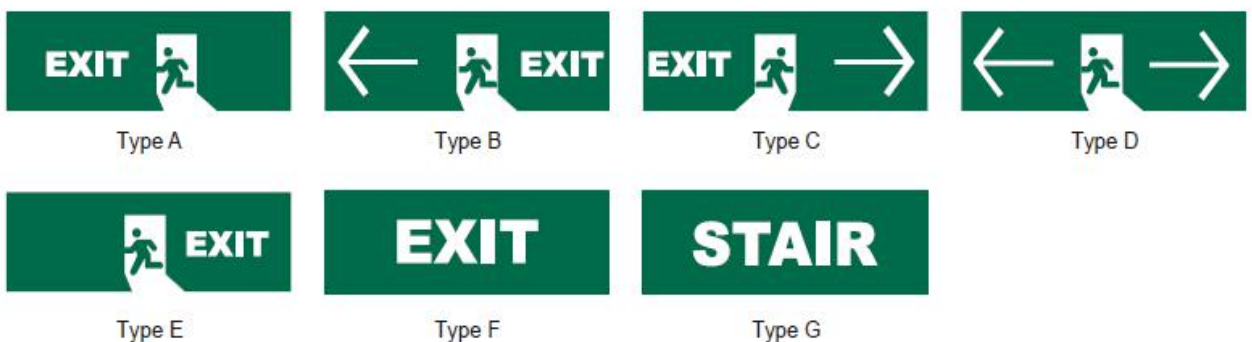


- ◆ Explosion protection to
  - CENELEC
  - IEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- ◆ Lighting both in condition normal and emergency condition; When power supply is cut off, the emergency device starts to work; with over charge, over discharge protection and short circuit protection.
- ◆ With test pushbutton, convenient to check the emergency function. Press the test pushbutton, the light will switch into emergency condition.
- ◆ Ultra-bright LED lamp, low power consumption and long service life up to 50,000 hours; energy saving and environmental protection.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL 1021).
- ◆ Toughened glass sheet resistant to temperature changes.

### Catalogue number logic



### Sign code type A-G



Zones 1&2; 21&22

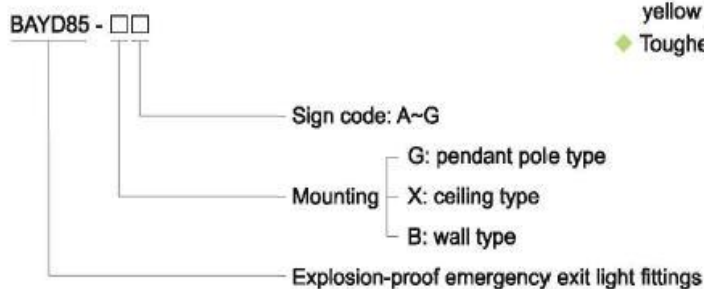


## Local, Caution Spotlight Fittings BAYD85 Series Explosion-proof Emergency Exit Light Fittings

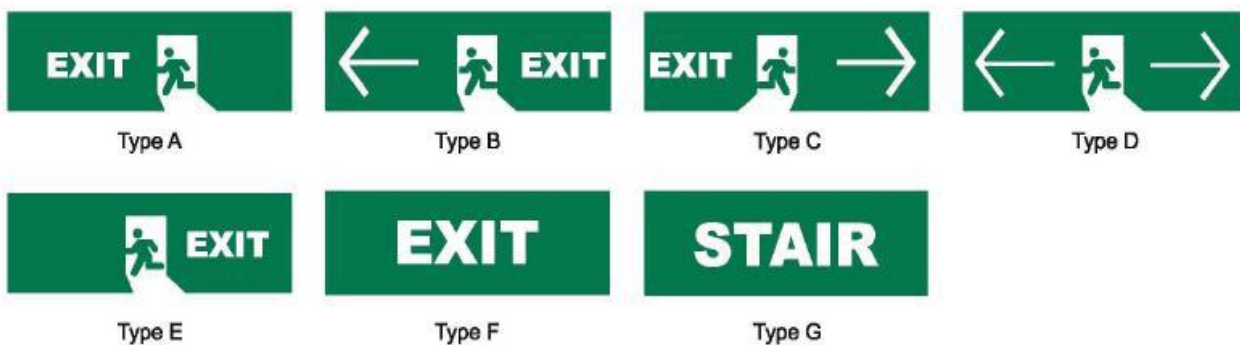


- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A, B, C, D
- ◆ Lighting both in normal condition and emergency condition; When power supply is cut off, the emergency device starts to work; with over charge, over discharge protection and short circuit protection.
- ◆ Designed with test button and sleep button. the test button is for testing. press the button, lamp shall automatically enter into emergency status. the sleep button is to stop the lamp source output, press this button, the lamp turned off, re-press the button, lamp lighted and return to work.
- ◆ Ultra-bright LED lamp, low power consumption and long service life up to 50,000 hours; energy saving and environmental protection.
- ◆ Enclosure in copper-free aluminium, powder coated surface, yellow (RAL 1021).
- ◆ Toughened glass sheet resistant to temperature changes.

### Catalogue number logic



### Sign code type A-G



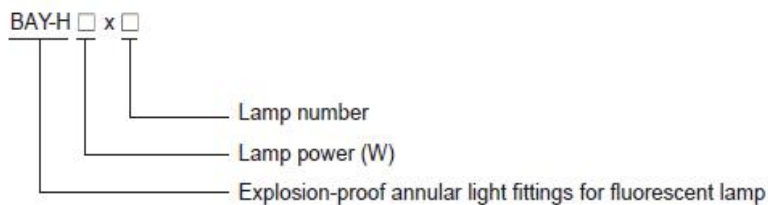
Zones 1&2; 21&22

## Light Fittings for Fluorescent Lamp BAY-H Series Explosion-proof Annular Light Fittings for Fluorescent Lamp



- ◆ Explosion protection to
  - CENELEC
  - IEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- ◆ Power: 21W x 1, 21W x 2.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).
- ◆ Powder coated wire guard, white.
- ◆ Toughened glass cover resistant to temperature changes.

### Catalogue number logic



### Selection table

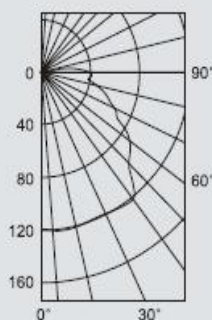
Type/Ordering code	Lamp power (W)	Weight (kg)	Type/Ordering code	Lamp power (W)	Weight (kg)
BAY-H21 x 1	21 x 1	5.00	BAY-H21 x 2	21 x 2	5.60

Note: The light fittings are supplied with lamps.

### Photometric data

#### 21W x 1 photometric data

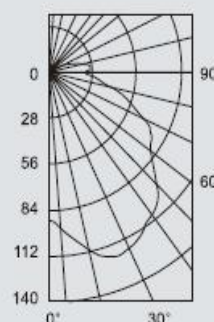
Rated luminous flux:1000lm;  
The data from GE lamp;  
Luminous intensity distribution cd/1000lm



Angle	CP	Angle	CP
0	122	50	106
5	123	55	98
10	123	60	87
15	123	65	80
20	123	70	70
25	122	75	60
30	120	80	51
35	118	85	44
40	114	90	45
45	113		

#### 21W x 2 photometric data

Rated luminous flux:2000lm;  
The data from GE lamp;  
Luminous intensity distribution cd/1000lm



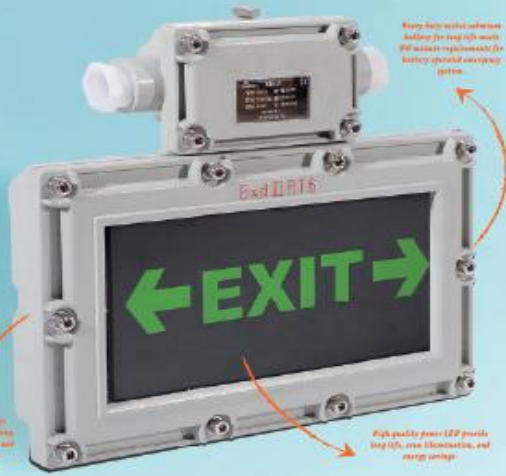
Angle	CP	Angle	CP
0	178	50	181
5	194	55	166
10	222	60	161
15	241	65	144
20	248	70	141
25	245	75	103
30	237	80	77
35	229	85	56
40	220	90	48
45	203		

We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

# Zones 1&2; 21&22

**BZD310**

- Power LED, service life over 50,000 hours
- Over 50% less energy consumption comparing to HID
- Easy to install, low maintenance costs
- 24-hour charge and recharge recovery time increases safety
- Different sign panels for option
- Zone 1, 2, 21, 22



**FEATURES**

- LEDs provide long life, even illumination, and energy savings.
- Wide voltage range: AC220V type can operate within 90-265V range.
- Good EMC: excellent electromagnetic compatibility and anti-interference.
- 24-hour charge and recharge recovery time increases safety.
- Brown-out protection protects battery and reduces labor.
- Heavy duty nickel cadmium battery for long life meets 90 minute requirements for battery operated emergency system.
- High pressure accurate aluminum die cast housing protects against impact and chemical resistance.
- The panel is made of impact-resistant borosilicate glass with transfer printing technology, ensures high Ex-Proof performance.
- Wide operating temperature range (-20°C to 60°C).
- Different sign panels for option.

**Application sectors:**



**SPECIFICATION**

Classification	Group I Category 2GD
Installation in areas	Zone 1 • Zone 2 (Gas) & Zone 21 • Zone 22 (Dust)
Standards	IEC60079-0, IEC60079-1, EN60079-0, EN60079-1, IEC60079-1, IEC60079-2
Ex-mark	Exd IIC T6 Gb Ex IIB T85°C Db
Rated Voltage	AC/DC 220V(±1) 50/60Hz
Rated Wastage	5W
Luminous Flux	350Lm
Emergency Duration	90min
Battery Specification	Heavy duty Ni-Cd battery, 1800mAh
IP Grade	IP65
Corrosion-proof Grade	WF2
Ambient temperature	-20°C ~ +60°C (+40°C optional)
Cable Entry	G3/4" threads, for cables Ø10mm~Ø14mm (1"2)
Terminal	wires 2.5mm <sup>2</sup>
Installation	Mounting/Wall Ceiling/Pendant (opt)
Weight	4kg

Remark:  
 1. AC/DC110V, DC36V, DC24V, DC12V is optional.  
 2. NPT3/4" is available.

**MECHANICAL FEATURES**

- Body: Copper-free content aluminum alloy
- Panel: Impact-resistant borosilicate glass with transfer printing technology
- Bolts and screws: Stainless steel
- Entrics: G3/4" threads
- Coating: Epoxy coating (grey)
- Corrosion resistance:** The STANDARD of the aluminum alloy used by Qinsun has passed the tests required by standards EN60068-2-60 (vib/humid cycles) and EN60068-2-11 (salt mist tests)

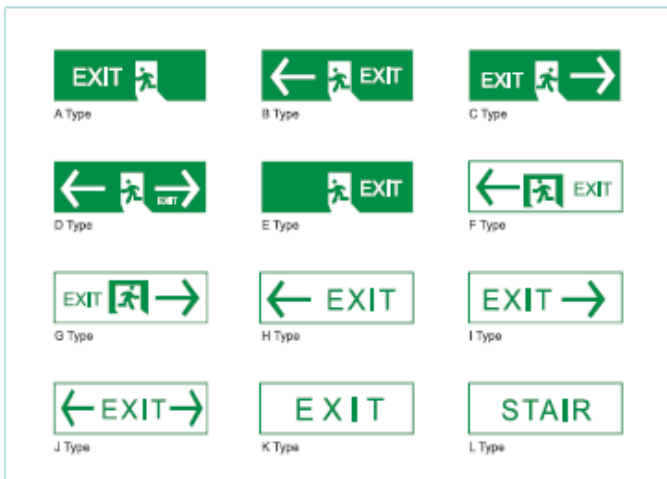
**ORDERING REQUEST/ACCESSORIES AVAILABLE**

- Different rated voltages
- Different installation method
- Different letter color (red, green LED)
- Different panel design

**APPLICATION AREAS**

Widely used in harsh and hazardous environments and industries of Petroleum Industry, Petrochemical Industry, Shipping Industry, Mining Industry, Military Industry, Metallurgical Industry, Power Generation Industry, Power Transmission Industry, Railway Industry, Public Security and Fire Fighting, etc.

**PANEL DESIGNING**



**DIMENSIONS**

