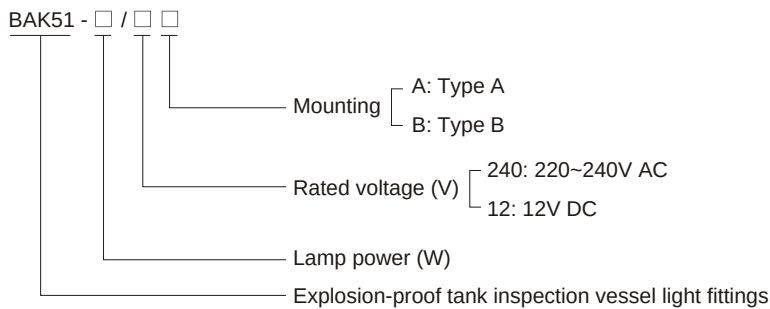




Local, Caution Spotlight Fittings BAK51 Series Explosion-proof Tank Inspection Vessel Light Fittings

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
- ◆ Available for 35W or 50W halogen tungsten lamp, with high light efficiency and long service life.
- ◆ A or B mounting type is optional.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).

Catalogue number logic



Selection table

Type/Ordering code	Available lamp/power(W)	Weight(kg)	Type/Ordering code	Available lamp/power(W)	Weight(kg)
BAK51-35/240A	35W Halogen tungsten lamp	2.15	BAK51-50/240A	50W Halogen tungsten lamp	2.15
BAK51-35/240B		2.15	BAK51-50/240B		2.15
BAK51-35/12A		2.00	BAK51-50/12A		2.00
BAK51-35/12B		2.00	BAK51-50/12B		2.00

Zones 1&2

Technical data

Explosion-proof tank inspection vessel light fittings BAK51-□/□□

Explosion protection

Gas explosion protection

Ex II 2 G Ex d IIB T3

Certificates

For gas explosion protection

LCIE 06 ATEX 6020; IECEx LCI 08. 0007

Conformity to standards

EN 60079-0: 2004, EN 60079-1: 2004

IEC 60079-0: 2004, IEC 60079-1: 2003

Material

Enclosure

Copper-free aluminium, powder coated external surface, yellow (RAL1021)

Glass cover

Toughened glass, impact resistance and high light transmission

Exposed fastener

Stainless steel

Lamp

Available lamp

Halogen tungsten lamp

Lamp holder

GY6.35

Lamp power (W)

35W, 50W

Adaptable voltage

220~240V AC 50Hz

DC 12V

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP65

Ambient temperature

-20°C ~ +55°C

Terminal

3 x 1.5~2.5mm² (L+N+PE)

Cable entries

1 x G3/4"

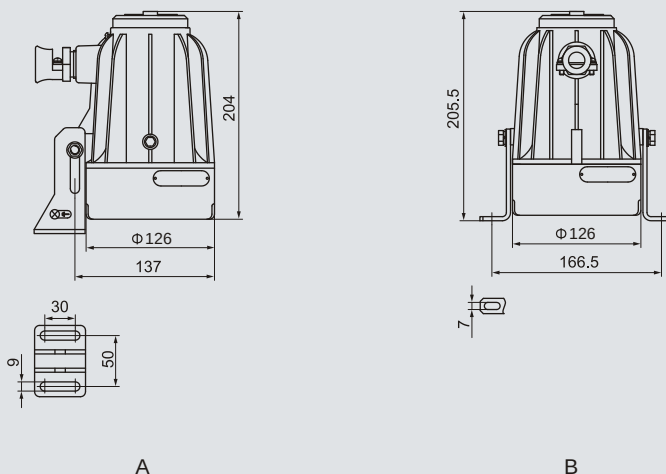
Cable gland

The light fittings are supplied with seal gasket and trumpet shaped gland; cable gland on request.

Available cable outer diameter

Φ10~Φ14 (mm)

Dimension drawings (all dimensions in mm) - subject to alteration

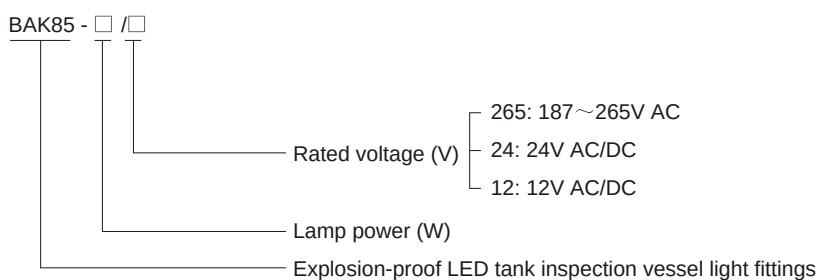




Local, Caution Spotlight Fittings BAK85 Series Explosion-proof LED Tank Inspection Vessel Light Fittings

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Applicable lamp and power:
 - LED lamps, energy-saving and long service life, 9W
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).

Catalogue number logic



Selection table

Type/Ordering code	Lamp power (W)	Rated voltage (V)	Weight (kg)
BAK85-9/265	9	187～265V AC 50/60Hz	2.20
BAK85-9/24		24V AC/DC	
BAK85-9/12		12V AC/DC	
Note: The product is supplied according to “Type/Ordering code” in the table with mounting accessories.			

Zones 1&2; 21&22

Technical data

Explosion-proof LED tank inspection vessel light fittings BAK85-□/□

Explosion protection

Gas explosion protection

Ex II 2 G Ex d IIC T6 Gb

Dust explosion protection

Ex II 2 D Ex t IIIC T80°C Db IP66

Certificates

DNV 12 ATEX____; FM (USA); GOST.R (Russia); IECEx

Conformity to standards

EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-31: 2009

IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-31: 2008

Material

Enclosure

Copper-free aluminium, powder coated external surface, yellow (RAL1021)

Glass cover

Toughened glass, stands 4J impact

Power controller

Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.98 , with protection against circuit and anti-electromagnetic interference, etc.

Exposed fastener

Stainless steel

Lamp

Lamp specification

CREE plural white LED modules

Lamp power (W)

9W

Rated voltage

187~265V AC 50/60Hz

24V AC/DC

12V AC/DC

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP66

Ambient temperature

-40°C ~ +55°C

Terminal

3 x 1.5~4mm² (L+N+PE)

Cable entries

G3/4" (NPT3/4" or M25 x 1.5 with reducer on request).

Cable gland

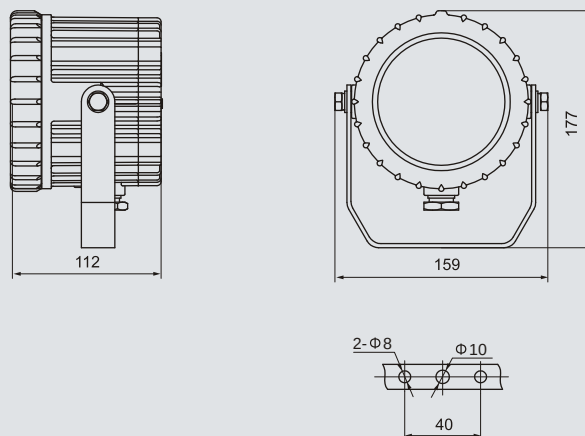
Supplied with seal gasket and gland nut

Applicable cable outer diameter

Φ10~Φ14 (mm)



Dimension drawings (all dimensions in mm) - subject to alteration

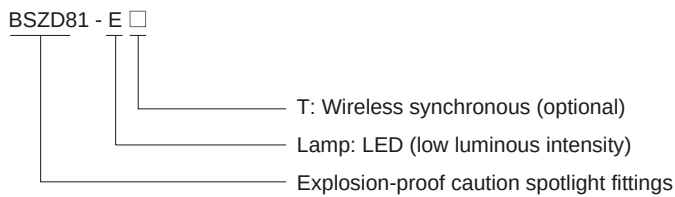




Local, Caution Spotlight Fittings BSZD81- E Series Explosion-proof Caution Spotlight Fittings

- ◆ Can be used in
Zone 1 and Zone 2
- ◆ Ultra-bright LED lamp, low power consumption and long service life up to 50,000 hours; energy saving and environmental protection.
- ◆ Integrated chip control with various circuit protection;
- ◆ synchronous function of light fittings through signal lines.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).

Catalogue number logic



Zones 1&2

Technical data

Explosion-proof caution spotlight fittings BSZD81-E□

Explosion protection

Gas explosion protection

Ex II 2 G Ex de IIC T6 Ex de IIC T6 Gb

Certificates

For gas explosion protection

Nemko 08 ATEX 1096; IECEx CQM 11.0026

Conformity to standards

EN 60079-0: 2006, EN 60079-1: 2004, EN 60079-7: 2004
IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-7: 2006

Material

Enclosure

Copper-free aluminium, powder coated external surface, yellow (RAL1021)

Glass cover

Toughened glass, stands 4J impact.

Exposed fastener

Stainless steel

Rated voltage

220~240V AC 50/60Hz

Lamp

Lamp specification

LED

Lamp power (W)

≤10W (continuous work)

Bulb colour

Red

Max. luminous intensity value

>200cd

Flash frequency

20~60 (times/min)

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP65

Ambient temperature

-20℃~+55℃

Terminal

3 x 1.5~2.5mm² (L+N+PE)

Cable entries

4 x M25 x 1.5 Plug

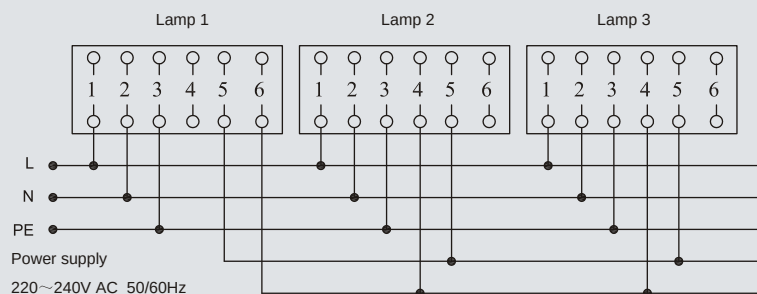
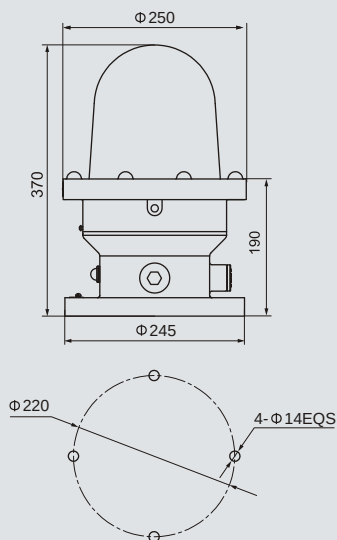
Cable gland (optional)

DQM-I (Ex e) is recommended. Please see P7/17~19.

Weight

10kg

Dimension drawings (all dimensions in mm) - subject to alteration

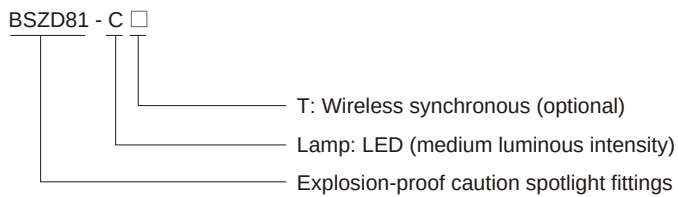




Local, Caution Spotlight Fittings BSZD81-C Series Explosion-proof Caution Spotlight Fittings

- ◆ Can be used in
Zone 1 and Zone 2
- ◆ Ultra-bright LED lamp, low power consumption and long service life up to 30,000 hours; energy saving and environmental protection.
- ◆ Integrated chip control with various circuit protection; synchronous function of light fittings through signal lines.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).

Catalogue number logic



Zones 1&2

Technical data

Explosion-proof caution spotlight fittings BSZD81-C□

Explosion protection

Gas explosion protection

Ex II 2 G Ex de IIC T6

Certificates

For gas explosion protection

PCEC (China)

Conformity to standards

IEC 60079-0: 2004, IEC 60079-1: 2003, IEC 60079-7: 2001

Material

Enclosure

Copper-free aluminium, powder coated external surface, yellow (RAL1021)

Glass cover

Toughened glass, stands 4J impact

Exposed fastener

Stainless steel

Rated voltage

220~240V AC 50/60Hz

Lamp

Lamp specification

LED

Lamp power (W)

40W (continuous work)

Bulb colour

Red

Max. luminous intensity value

>2000cd

Flash frequency

20~60 (times/min)

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP65

Ambient temperature

-20℃~+55℃

Terminal

3 x 1.5~2.5mm² (L+N+PE)

Cable entries

4 x M25 x 1.5 Plug

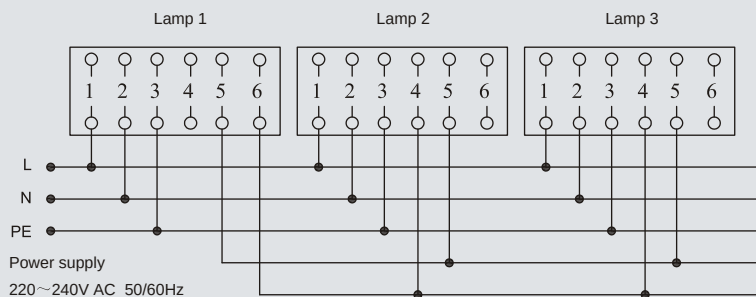
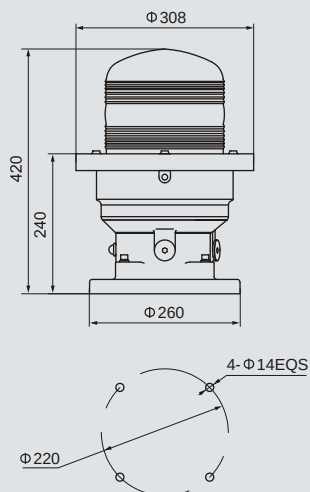
Cable gland (optional)

DQM-I (Ex e) is recommended. Please see P7/17~19.

Weight

13.8kg

Dimension drawings (all dimensions in mm) - subject to alteration

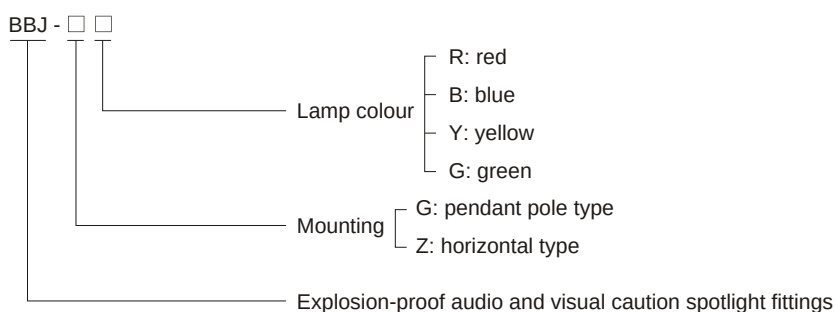




Local, Caution Spotlight Fittings BBJ Series Explosion-proof Audio and Visual Caution Spotlight Fittings

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
- ◆ Ultra-bright LED lamp, low power consumption and long service life.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).

Catalogue number logic



Selection table

Type/Ordering code	Weight (kg)
BBJ-ZR	3.00
BBJ-ZB	3.00
BBJ-ZY	3.00
BBJ-ZG	3.00
BBJ-GR	4.60
BBJ-GB	4.60
BBJ-GY	4.60
BBJ-GG	4.60

Note: The product is supplied according to "Type/Ordering code" in the table with mounting accessories.

Zones 1&2

Technical data

Explosion-proof audio and visual caution spotlight fittings

BBJ-□□

Explosion protection

Gas explosion protection

Ex II 2 G Ex d [ib] ib IIC T6 Ex d [ib] ib IIC T6 Gb

Certificates

For gas explosion protection

Nemko 08 ATEX 1095; IECEx CQM 11.0023; BVC 10.0031 (Brazil)

Conformity to standards

EN 60079-0: 2006, EN 60079-1: 2004, EN 60079-11: 2007

IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-11: 2006

Material

Enclosure

Copper-free aluminium, powder coated external surface, yellow (RAL1021)

Transparent cover

Toughened glass, impact resistance, high light transmission.

Exposed fastener

Stainless steel

Rated voltage

220~240V AC 50/60Hz

Lamp

Lamp specification

LED

Lamp power (W)

2W

Lamp colour

Red, blue, yellow, green

Flash frequency

150 (times/min)

Sound intensity

100~120 dB (R=1m)

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP65

Ambient temperature

-20℃~+55℃

Terminal

3 x 1.5~2.5mm² (L+N+PE)

Cable entries

1 x G3/4" for horizontal type; 2 x M25 x 1.5 for pendant pole type

Cable gland

1. For horizontal type: supplied with seal gasket and gland nut.
2. For pendant pole type: supplied with BHD51-F explosion-proof junction box (copper-free aluminium); M25 x 1.5 plug or Ex d cable gland is optional, DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25.
Φ10~Φ14 (mm)

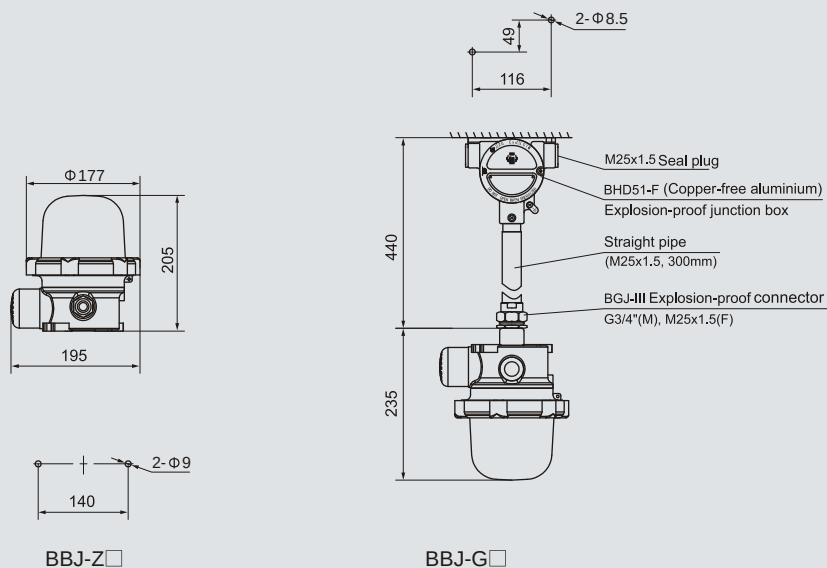
Available cable outer diameter

Note

The light fittings are supplied with mounting accessories.



Dimension drawings (all dimensions in mm) - subject to alteration

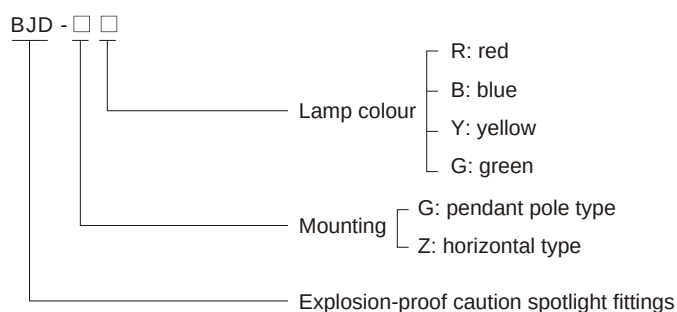




Local, Caution Spotlight Fittings BJD Series Explosion-proof Caution Spotlight Fittings

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
- ◆ Ultra-bright LED lamp, low power consumption and long service life.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).

Catalogue number logic



Selection table

Type/Ordering code	Weight(kg)
BJD-ZR	2.50
BJD-ZB	2.50
BJD-ZY	2.50
BJD-ZG	2.50
BJD-GR	4.10
BJD-GB	4.10
BJD-GY	4.10
BJD-GG	4.10

Note: The product is supplied according to "Type/Ordering code" in the table with mounting accessories.

Zones 1&2

Technical data

Explosion-proof caution spotlight fittings

BJD-□□

Explosion protection

Gas explosion protection

Ex II 2 G Ex d IIC T6

Ex d IIC T6 Gb

Certificates

For gas explosion protection

Nemko 08 ATEX 1091; IECEx CQM 11.0025

Conformity to standards

EN 60079-0: 2006, EN 60079-1: 2004

IEC 60079-0: 2007, IEC 60079-1: 2007

Material

Enclosure

Copper-free aluminium, powder coated external surface, yellow (RAL1021)

Transparent cover

Toughened glass, impact resistance, high light transmission.

Exposed fastener

Stainless steel

Rated voltage

220~240V AC 50/60Hz

Lamp

Lamp specification

LED

Lamp power (W)

3W

Lamp colour

Red, blue, yellow, green

Flash frequency

150 (times/min)

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP65

Ambient temperature

-20℃~+55℃

Terminal

3 x 1.5~2.5mm² (L+N+PE)

Cable entries

1 x G3/4" for horizontal type; 2 x M25 x 1.5 for pendant pole type

Cable gland

1. For horizontal type: supplied with seal gasket and gland nut.

2. For pendant pole type: supplied with BHD51-F explosion-proof junction box (copper-free aluminium); M25 x 1.5 plug or Ex d cable gland is optional, DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25.

Available cable outer diameter

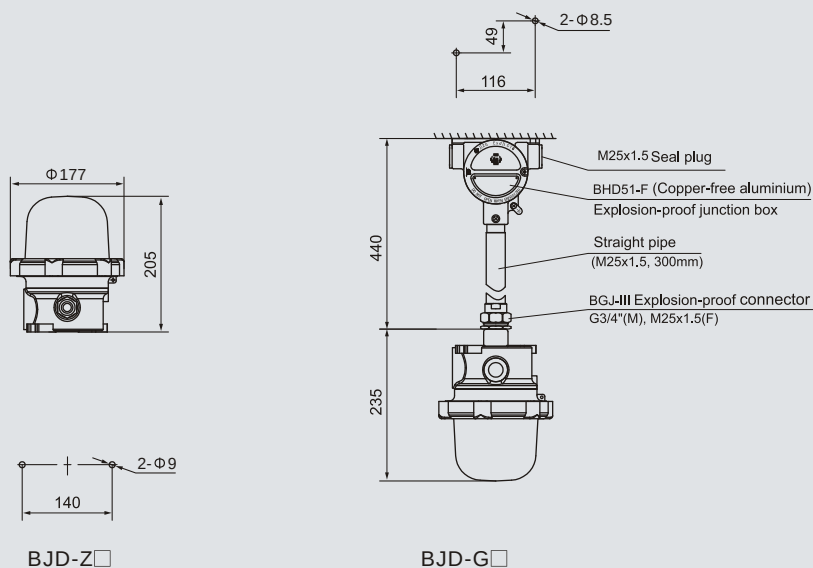
Φ10~Φ14 (mm)

Note

The light fittings are supplied with mounting accessories.



Dimension drawings (all dimensions in mm) - subject to alteration

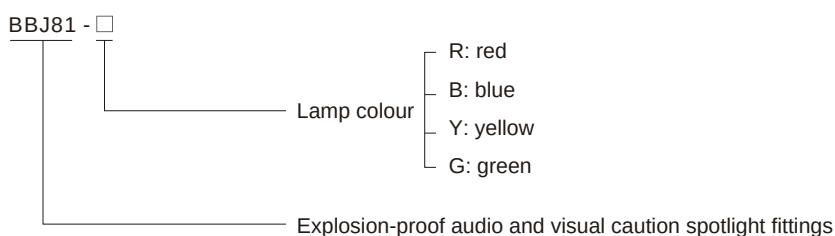




Local, Caution Spotlight Fittings BBJ81 Series Explosion-proof Audio and Visual Caution Spotlight Fittings

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Ultra-bright LED lamp, low power consumption and long service life.
- ◆ Four lamp colours: red, blue, yellow, green.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).

Catalogue number logic



Selection table

Type/Ordering code	Weight(kg)
BBJ81-R	2.60
BBJ81-B	2.60
BBJ81-Y	2.60
BBJ81-G	2.60

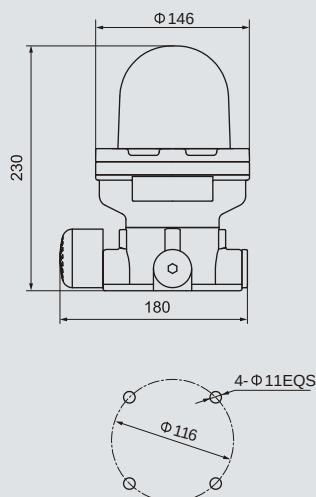
Note: The product is supplied according to "Type/Ordering code" in the table with mounting accessories.

Zones 1&2; 21&22

Technical data	
Explosion-proof audio and visual caution spotlight fittings	
	BBJ81-□
Explosion protection	
Gas explosion protection	Ex II 2 G Ex d ib IIC T6 Gb
Dust explosion protection	Ex II 2 D Ex t IIIC T80°C Db IP66
Certificates	LCIE 11ATEX 3111X; FM (USA); GOST.R (Russia); IECEx
Conformity to standards	EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-11: 2007, EN 60079-31: 2009 IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-11: 2006, IEC 60079-31: 2008
Material	
Enclosure	Copper-free aluminium, powder coated external surface, yellow (RAL1021)
Transparent cover	Toughened glass, stands 4J impact
Exposed fastener	Stainless steel
Rated voltage	220~240V AC 50/60Hz; 24V DC/AC
Lamp	
Lamp specification	LED
Lamp power (W)	5W
Lamp colour	Red, blue, yellow, green
Flash frequency	150 (times/min)
Sound intensity	100~120dB (R=1m)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	-40°C ~ +55°C
Terminal	3 x 1.5~2.5mm ² (L+N+PE)
Cable entries	4 x M25 x 1.5 plug
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25.



Dimension drawings (all dimensions in mm) - subject to alteration

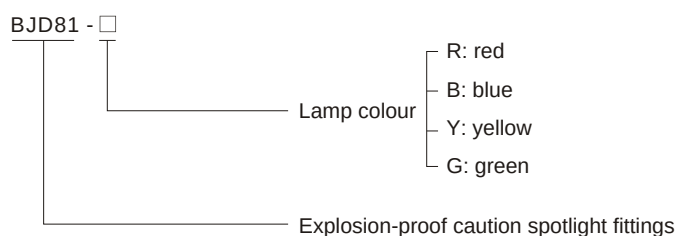




Local, Caution Spotlight Fittings BJD81 Series Explosion-proof Caution Spotlight Fittings

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Ultra-bright LED lamp, low power consumption and long service life.
- ◆ Lamp colour: red, blue, yellow, green.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, yellow (RAL1021).

Catalogue number logic



Selection table

Type/Ordering code	Weight(kg)
BJD81-R	2.50
BJD81-B	2.50
BJD81-Y	2.50
BJD81-G	2.50

Note: The product is supplied according to "Type/Ordering code" in the table with mounting accessories.



Zones 1&2; 21&22

Technical data

Explosion-proof caution spotlight fittings

BJD81-□

Explosion protection

Gas explosion protection

Ex II 2 G Ex d IIC T6 Gb

Dust explosion protection

Ex II 2 D Ex t IIIC T80°C Db IP66

Certificates

LCIE 11 ATEX 3109X; FM (USA); GOST.R (Russia); IECEx

Conformity to standards

EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-31: 2009

IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-31: 2008

Material

Enclosure

Copper-free aluminium, powder coated external surface, yellow (RAL1021)

Transparent cover

Toughened glass, stands 4J impact

Exposed fastener

Stainless steel

Rated voltage

220~240V AC 50/60Hz; 24V DC/AC

Lamp

Lamp specification

LED

Lamp power (W)

3W

Lamp colour

Red, blue, yellow, green

Flash frequency

150 (times/min)

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP66

Ambient temperature

-40°C~+55°C

Terminal

3 x 1.5~2.5mm² (L+N+PE)

Cable entries

4 x M25 x 1.5 plug

Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25.

Dimension drawings (all dimensions in mm) - subject to alteration

