

Light Fittings for Fluorescent Lamp

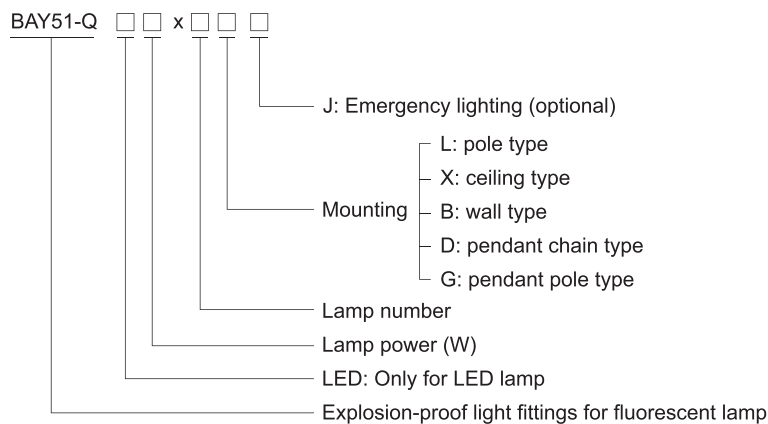
BAY51-Q Series Explosion-proof Light Fittings for Fluorescent Lamp



- ◆ 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 2, Groups A, B, C, D
- ◆ Two enclosure types: Type I and Type II
 - Available lamp and power
 - T8 Fluorescent Lamps: 18W x 1, 36W x 1, 18W x 2, 36W x 2
 - LED lamps: 14W x 2, 28W x 2
- ◆ Enclosure in glass fiber reinforced polyester (GRP), diffuser in polycarbonate, corrosion-proof.
- ◆ Ex e enclosure with explosion-proof components inside.
- ◆ Safety interlock between enclosure and diffuser switches off on opening.
- ◆ Built-in electronic ballast, power factor ≥ 0.95 .
- ◆ Built-in LED driver, wide voltage input, CC-CV (constant current-constant voltage) output, power factor ≥ 0.95 .
- ◆ Emergency unit with protections against overcharge and over-discharge.
- ◆ End of lamp life (EOL) rectification effect protection.



Catalogue number logic



Zones 1&2; 21&22

Light Fittings for Fluorescent Lamp

BAY51-Q Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data					
Explosion-proof light fittings for fluorescent lamp BAY51-Q□ × □□					
Explosion protection					
Gas explosion protection	Ex II 2 G Ex d e q IIC T4 Gb				
Dust explosion protection	Ex II 2 D Ex t IIIC T80°C Db IP66				
Certificates	LCIE 12 ATEX 3045X; IECEX CQM 07.0007 BR232313 (Brazil); S-XPL/04547 (South Africa); RU C-CN.ГБ05.B.00344 (CU-TR)				
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-5:2007, EN 60079-7:2007 EN 60079-31:2009 IEC 60079-0:2007, IEC 60079-1:2007, IEC 60079-5:2007, IEC 60079-7:2006 IEC 60079-31:2008				
Material					
Enclosure	GRP, stands 7J impact, corrosion-proof				
Diffuser	Polycarbonate, 90% light transmission, stands 7J impact				
Ballast	Electronic ballast, power factor ≥ 0.95, with protection against short circuit, overload, lamp aging, lamp damage and dissymmetry power of lamp tube. Certificate No.: LCIE 06 ATEX 0003U; IECEX CQM 07.0005U; BR229576-U (Brazil).				
Exposed fastener	Stainless steel				
Interlock	BZX-6 explosion-proof distance switch, switching off on opening Certificate No.: LCIE 06 ATEX 0002U, IECEX CQM 07.0006U				
Lamp					
Lamp specification	International brand of T8 tube (supplied with the light fittings)				
Lamp power (W)	<table border="1"> <tr> <td>36W x 2</td><td>18W x 2</td></tr> <tr> <td>36W x 1</td><td>18W x 1</td></tr> </table>	36W x 2	18W x 2	36W x 1	18W x 1
36W x 2	18W x 2				
36W x 1	18W x 1				
Rated voltage	96~254V AC 50/60Hz				
Protection class	II (Protection against electric shock)				
Degree of protection	IP66, IP67(optional)				
Ambient temperature	-20°C~+55°C				
Terminal	3 x 1.5~4mm ² (L+N+PE)				
Cable entries	4 x Φ26: 2 x M25 x 1.5 cable glands (DQM-I Ex e, plastic), 2 x M25 x 1.5 plugs.				
Available cable outer diameter	Φ9~Φ16 (mm)				



Selection table					
Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
BAY51-Q18 x 1L	18 x 1	6.80	BAY51-Q18 x 2L	18 x 2	7.00
BAY51-Q18 x 1X	18 x 1	6.70	BAY51-Q18 x 2X	18 x 2	6.90
BAY51-Q18 x 1B	18 x 1	7.80	BAY51-Q18 x 2B	18 x 2	7.90
BAY51-Q18 x 1D	18 x 1	8.10	BAY51-Q18 x 2D	18 x 2	8.20
BAY51-Q18 x 1G	18 x 1	7.70	BAY51-Q18 x 2G	18 x 2	7.85
BAY51-Q36 x 1L	36 x 1	11.40	BAY51-Q36 x 2L	36 x 2	11.60
BAY51-Q36 x 1X	36 x 1	11.30	BAY51-Q36 x 2X	36 x 2	11.40
BAY51-Q36 x 1B	36 x 1	12.30	BAY51-Q36 x 2B	36 x 2	12.50
BAY51-Q36 x 1D	36 x 1	12.60	BAY51-Q36 x 2D	36 x 2	12.75
BAY51-Q36 x 1G	36 x 1	12.20	BAY51-Q36 x 2G	36 x 2	12.40
Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/8~9).					

Light Fittings for Fluorescent Lamp

BAY51-Q Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data

Explosion-proof emergency light fittings for fluorescent lamp BAY51-Q□ × □□J

Explosion protection	II 2 G Ex d e q IIC T4 Gb II 2 D Ex tb IIIC T80°C Db IP66				
Gas explosion protection Dust explosion protection					
Certificates	LCIE 10 ATEX 3009; IECEX CQM 12.0002X; BR232314 (Brazil) CU-TR				
Conformity to standards	EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-5: 2007, EN 60079-7: 2007 EN 60079-31: 2009 IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-5: 2007, IEC 60079-7: 2006 IEC 60079-31: 2008				
Material					
Enclosure Diffuser Ballast	GRP, stands 7J impact, corrosion-proof Polycarbonate, 90% light transmission, stands 7J impact Electronic ballast, power factor ≥ 0.95, with protection against short circuit, overload, lamp aging, lamp damage and dissymmetry power of lamp tube.				
Emergency controller Exposed fastener	BY-2 emergency controller Certificate No.: LCIE 10 ATEX 3010U, IECEX CQM 11.0041U				
Stainless steel	International brand of T8 tube (supplied with the light fittings)				
Lamp					
Lamp specification Lamp power (W)	<table><tr><td>36W x 2</td><td>18W x 2</td></tr><tr><td>36W x 1</td><td>18W x 1</td></tr></table>	36W x 2	18W x 2	36W x 1	18W x 1
36W x 2	18W x 2				
36W x 1	18W x 1				
Emergency power (W)	36W x 1, 18W x 1				
Emergency starting time	0.3s				
Charging time	24h				
Emergency lighting time	120min (180min is optional)				
Rated voltage	96~254V AC 50/60Hz				
Protection class	II (Protection against electric shock)				
Degree of protection	IP66, IP67(optional)				
Ambient temperature	-20°C~~+55°C				
Terminal	3 x 1.5~4mm² (L+N+PE)				
Cable entries	4 x Φ26: 2 x M25 x 1.5 cable glands (DQM-I Ex e, plastic), 2 x M25 x 1.5 plugs.				
Available cable outer diameter	Φ9~Φ16 (mm)				

Selection table

Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
BAY51-Q18 x 1LJ	18 x 1	8.65	BAY51-Q18 x 2LJ	18 x 2	8.80
BAY51-Q18 x 1XJ	18 x 1	8.50	BAY51-Q18 x 2XJ	18 x 2	8.70
BAY51-Q18 x 1BJ	18 x 1	9.60	BAY51-Q18 x 2BJ	18 x 2	9.75
BAY51-Q18 x 1DJ	18 x 1	9.90	BAY51-Q18 x 2DJ	18 x 2	10.00
BAY51-Q18 x 1GJ	18 x 1	9.50	BAY51-Q18 x 2GJ	18 x 2	9.65
BAY51-Q36 x 1LJ	36 x 1	13.00	BAY51-Q36 x 2LJ	36 x 2	13.05
BAY51-Q36 x 1XJ	36 x 1	12.95	BAY51-Q36 x 2XJ	36 x 2	13.10
BAY51-Q36 x 1BJ	36 x 1	14.00	BAY51-Q36 x 2BJ	36 x 2	14.10
BAY51-Q36 x 1DJ	36 x 1	14.30	BAY51-Q36 x 2DJ	36 x 2	14.45
BAY51-Q36 x 1GJ	36 x 1	13.90	BAY51-Q36 x 2GJ	36 x 2	14.05

Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/8~9).



Light Fittings for Fluorescent Lamp

BAY51-Q Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data	
Explosion-proof LED light fittings for fluorescent lamp BAY51-Q LED ☐ × ☐ ☐ ☐	
Explosion protection	Gas explosion protection Dust explosion protection
Certificates	LCIE 15 ATEX____; IECEX
Conformity to standards	EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-7: 2007, EN 60079-18: 2009 EN 60079-31: 2009 IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-7: 2006, IEC 60079-18: 2009 IEC 60079-31: 2008
Material	
Enclosure	GRP, stands 7J impact, corrosion-proof
Diffuser	Polycarbonate, 90% light transmission, stands 7J impact
LED driver	Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥0.95, with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit.
Exposed fastener	Stainless steel
Lamp	
Lamp specification	International brand of LED module (supplied with the light fittings)
Lamp power (W)	14W x 2, 28W x 2
Colour Temperature (CCT)	Cool white :5400 ~ 6500K
	Note: cool white is available in general. Warm white (2700~3500K) or nature white (4700~5400K) is optional, please specify when ordering.
Rated voltage	96~254V AC 50/60Hz
Protection class	II (Protection against electric shock)
Degree of protection	IP66, IP67(optional)
Ambient temperature	-20°C~+55°C
Terminal	3 x 1.5~4mm ² (L+N+PE)
Cable entries	4 x Φ26: 2 x M25 x 1.5 cable glands (DQM-I Ex e, plastic), 2 x M25 x 1.5 plugs.
Available cable outer diameter	Φ9~Φ16 (mm)
Emergency data	
Emergency controller	Special emergency controller and battery pack, with protection against overcharge and overdischarge.
Emergency power (W)	14W x 1, 28W x 1
Emergency starting time	0.3s
Charging time	24h
Emergency lighting time	120min (180min is optional)



Selection table					
Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
BAY51-Q LED14 x 2L	14 x 2	7.30	BAY51-Q LED14 x 2LJ	14 x 2	8.80
BAY51-Q LED14 x 2X	14 x 2	7.20	BAY51-Q LED14 x 2XJ	14 x 2	8.70
BAY51-Q LED14 x 2B	14 x 2	8.20	BAY51-Q LED14 x 2BJ	14 x 2	9.70
BAY51-Q LED14 x 2D	14 x 2	8.50	BAY51-Q LED14 x 2DJ	14 x 2	10.00
BAY51-Q LED14 x 2G	14 x 2	8.15	BAY51-Q LED14 x 2GJ	14 x 2	9.65
BAY51-Q LED28 x 2L	28 x 2	12.10	BAY51-Q LED28 x 2LJ	28 x 2	13.60
BAY51-Q LED28 x 2X	28 x 2	11.90	BAY51-Q LED28 x 2XJ	28 x 2	14.40
BAY51-Q LED28 x 2B	28 x 2	13.00	BAY51-Q LED28 x 2BJ	28 x 2	14.50
BAY51-Q LED28 x 2D	28 x 2	13.25	BAY51-Q LED28 x 2DJ	28 x 2	14.75
BAY51-Q LED28 x 2G	28 x 2	12.90	BAY51-Q LED28 x 2GJ	28 x 2	14.40
Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/8~9).					

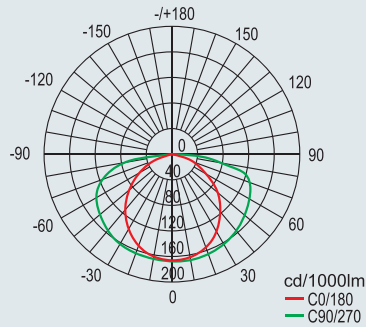
Light Fittings for Fluorescent Lamp

BAY51-Q Series Explosion-proof Light Fittings for Fluorescent Lamp

Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5400 to 6500K (cool white).

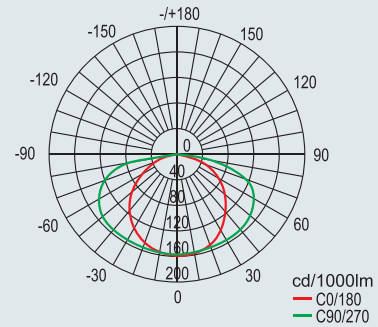
BAY51-Q18x1 □□

Rated luminous flux
18Wx1: 1300lm



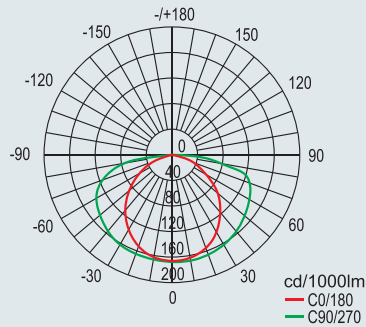
BAY51-Q36x1 □□

Rated luminous flux
36Wx1: 3250lm



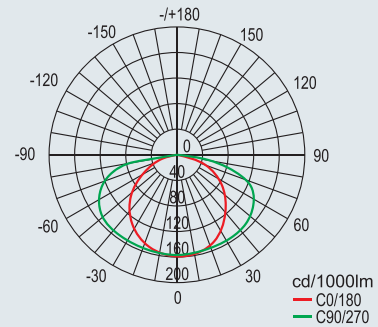
BAY51-Q18x2 □□

Rated luminous flux
18Wx2: 2600lm



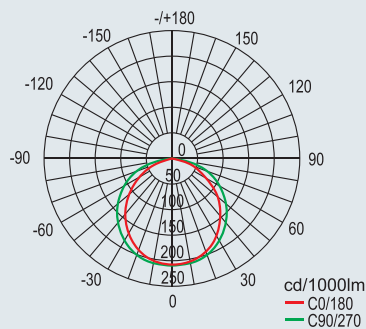
BAY51-Q36x2 □□

Rated luminous flux
36Wx2: 6500lm



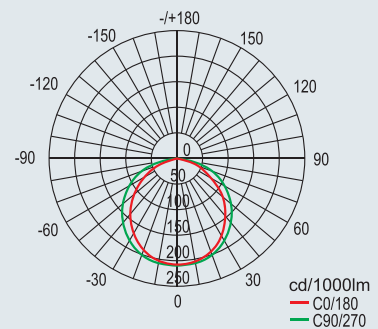
BAY51-Q LED 14x2 □□

Rated luminous flux
LED 14Wx2: 2800lm



BAY51-Q LED 28x2 □□

Rated luminous flux
LED 28Wx2: 5600lm



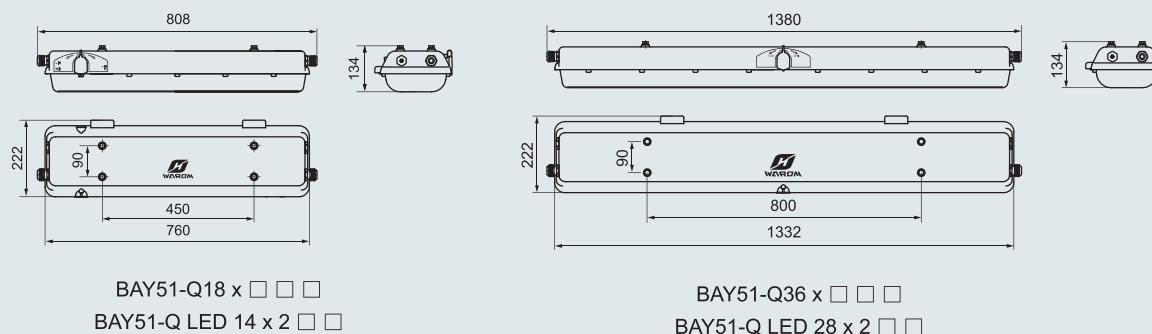
We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.



Light Fittings for Fluorescent Lamp

BAY51-Q Series Explosion-proof Light Fittings for Fluorescent Lamp

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



Accessories

Picture	Name	Ordering code	Weight (kg)
	Explosion-proof distance switch	5136003	0.04
	Spanner	5136004	0.02
	Lamp holder (with wires)	5136005	0.02
	YK36DF-2CS electronic ballast (36W)	5136011	1.30
	YK18DF-2CS electronic ballast (18W)	5118004	1.30
	BY-2 emergency controller (with battery) (36W)	5136019	1.70
	BY-2 emergency controller (with battery) (18W)	5118005	1.70



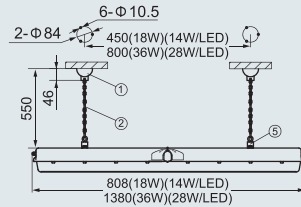
Light Fittings for Fluorescent Lamp

BAY51-Q Series Explosion-proof Light Fittings for Fluorescent Lamp

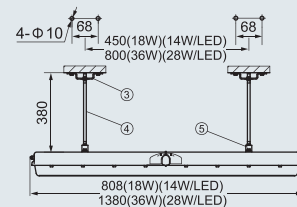
Mounting type (all dimensions in mm) – subject to alteration

Installation reference

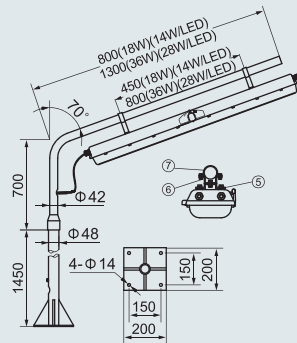
D: pendant chain type



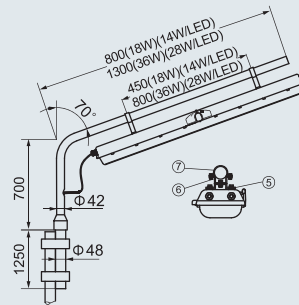
G: pendant pole type



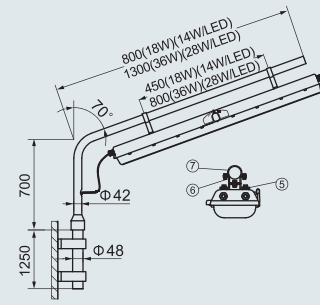
L: pole type (the pole is provided by user)



Suitable for ground pole type

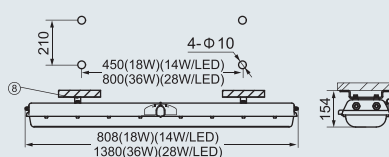


Suitable for fence pole type

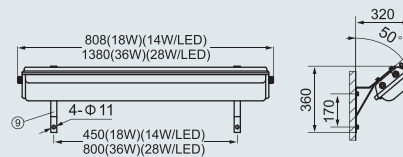


Suitable for wall pole type

X: ceiling type



B: wall type



Mounting accessories and spare parts table

Supplied according to the mounting type

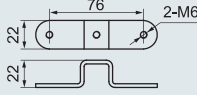
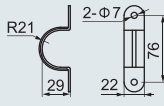
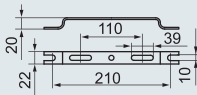
Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
D: pendant chain type	①.Sucker	2		5136017	0.15
	②.Chain	2	Length: 450mm	5136016	0.08
	⑤.Mounting bracket	2	Same as pendant pole type	5136030	0.07
G: pendant pole type	③.Mounting bracket	2		51S01G1	0.04
	④.M8 Screw	2	Length: 350mm	51S01G2	0.12
	⑤.Mounting bracket	2		5136030	0.07

Note: Accessories not in the table shall be supplied by user.

Light Fittings for Fluorescent Lamp

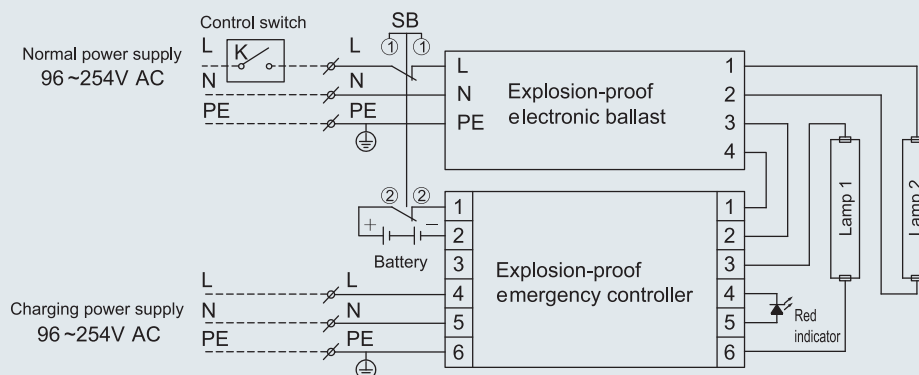
BAY51-Q Series Explosion-proof Light Fittings for Fluorescent Lamp

Mounting accessories and spare parts table

Supplied according to the mounting type					
Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
L: pole type	⑥.Mounting bracket	2		5136012	0.04
	⑦.G1 1/4" Pipe clamp	2		5136014	0.04
	⑤.Mounting bracket	2	Same as pendant pole type	5136030	0.07
X: ceiling type	⑧.Mounting bracket	2		5136015	0.20
B: wall type	⑨.Wall bracket	2	Welded sheet steel	5136B02	0.62

Note: Accessories not in the table shall be supplied by user.

Schematic diagram (BAY51-Q□x□□J, T8 fluorescent lamp)



Note: Tube for lamp 2 shall be default for single tube fittings.

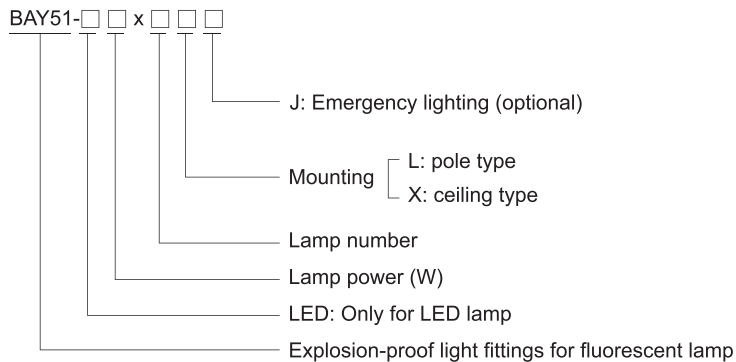
Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp



- ◆ 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
- ◆ Single or dual lamp versions
- ◆ Available lamp and power
 - Fluorescent lamps: 18W x 1, 36W x 1, 58W x 1, 18W x 2, 36W x 2, 58W x 2.
 - LED lamps: 9W x 1, 9W x 2, 18W x 1, 18W x 2, 28W x 1, 28W x 2.
- ◆ The glass tube stands 4J impact.
- ◆ Enclosure in copper-free aluminium, powder coated surface, yellow (RAL1021).
- ◆ Built-in electronic ballast, wide voltage input, rapid starting, stable performance, power factor $\geq$ 0.95.
- ◆ Built-in LED driver, wide voltage input, CC-CV (constant current - constant voltage) output, power factor $\geq$ 0.95.
- ◆ End of lamp life (EOL) rectification effect protection.

Catalogue number logic



Zones 1&2; 21&22

Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data

Explosion-proof light fittings for fluorescent lamp BAY51-□ × □□

Explosion protection

Gas explosion protection

Dust explosion protection

Ex II 2 G Ex d IIC T6 Gb

Ex d IIC T6 Gb

Ex II 2 D Ex tb IIIC T80°C Db IP66

Ex t IIIC T80°C Db IP66

Certificates

LCIE 09 ATEX 3046; IECEx CQM 12.0042X; RU C-CN.ГБ05.В.00344 (CU-TR)

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 surface, yellow (RAL1021)

Glass tube

Toughened glass, stands 4J impact

Ballast

Electronic ballast

Wire guard (optional)

Powder coated carbon steel (white) or stainless steel

Exposed fastener

Stainless steel

Lamp

Lamp specification

International brand of T8 tube (supplied with the light fittings)

Lamp power (W)

18W x 1 18W x 2

36W x 1 36W x 2

58W x 1 58W x 2

Rated voltage

100~300V AC 50/60Hz

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP66, IP67 (optional)

Ambient temperature

-20°C~+55°C

Terminal

3 x 1.5~4mm² (L+N+PE)

Cable entries

Single lamp

2 x M25 x 1.5 plugs

Dual lamp

2 x M25 x 1.5 plugs

Cable gland (optional)

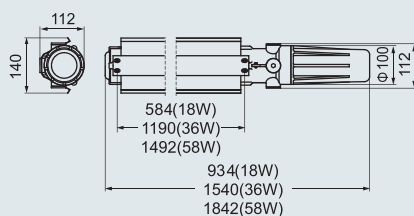
DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27

Selection table

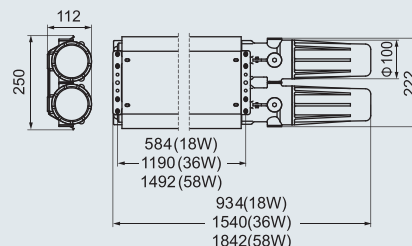
Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
BAY51-18 x 1X	18 x 1	5.60	BAY51-18 x 2X	18 x 2	10.60
BAY51-18 x 1L	18 x 1	6.50	BAY51-18 x 2L	18 x 2	11.55
BAY51-36 x 1X	36 x 1	8.80	BAY51-36 x 2X	36 x 2	16.30
BAY51-36 x 1L	36 x 1	9.30	BAY51-36 x 2L	36 x 2	16.85
BAY51-58 x 1X	58 x 1	10.40	BAY51-58 x 2X	58 x 2	18.30
BAY51-58 x 1L	58 x 1	10.85	BAY51-58 x 2L	58 x 2	19.20

Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/17~18).

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



BAY51-□x1□



BAY51-□x2□

Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data

Explosion-proof emergency light fittings for fluorescent lamp BAY51-□ × □□J

Explosion protection

- Gas explosion protection
- Dust explosion protection

Ex II 2 G Ex d IIC T6 Gb

Ex II 2 D Ex tb IIIC T80°C Db IP66

Certificates

LCIE 13 ATEX 3003X; IECEX CQM 13.0004X; CU-TR

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
- Glass tube
- Emergency unit

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

Toughened glass, stands 4J impact

Special emergency controller and Ni-MH battery pack, with protection against over-charge and overdischarge

- Ballast
- Wire guard (optional)
- Exposed fastener

Electronic ballast

Powder coated carbon steel (white) or stainless steel

Stainless steel

Lamp

- Lamp specification
- Lamp power (W)
- Emergency power (W)

International brand of T8 tube (supplied with the light fittings)

18W x 2, 36W x 2, 58W x 2

18W x 1, 36W x 1, 58W x 1

Emergency starting time

0.3s

Charging time

24h

Emergency lighting time

120min (180min is optional)

Rated voltage

100~300V AC 50/60Hz

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP66, IP67(optional)

Ambient temperature

-20°C~+55°C

Terminal

3 x 1.5~4mm² (L+N+PE)

Cable entries

4 x M25 x 1.5 plugs

Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27

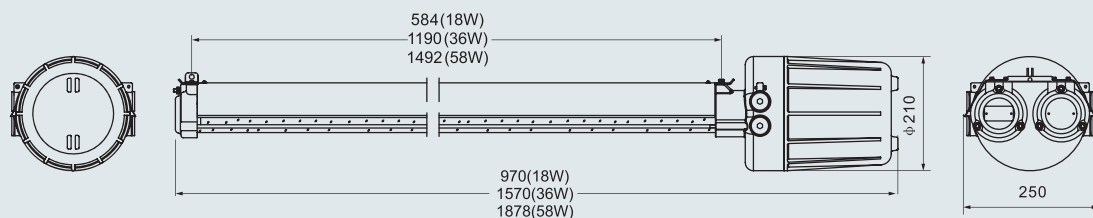


Selection table

Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
BAY51-18 x 2XJ	18 x 2	14.50	BAY51-36 x 2LJ	36 x 2	20.30
BAY51-18 x 2LJ	18 x 2	14.60	BAY51-58 x 2XJ	58 x 2	22.20
BAY51-36 x 2XJ	36 x 2	20.20	BAY51-58 x 2LJ	58 x 2	22.30

Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/19).

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



BAY51-□x2□J

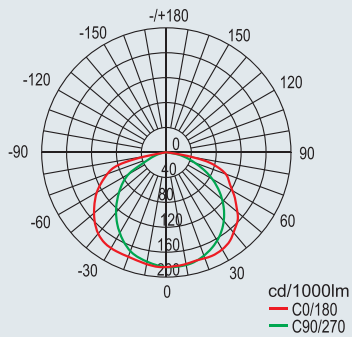
Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Photometric data

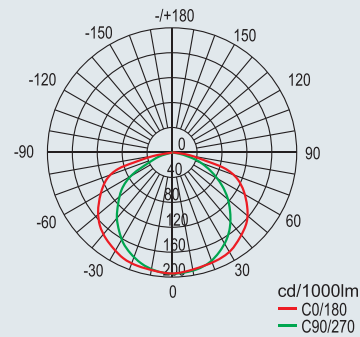
BAY51-18x1□□

Rated luminous flux
18Wx1: 1300lm



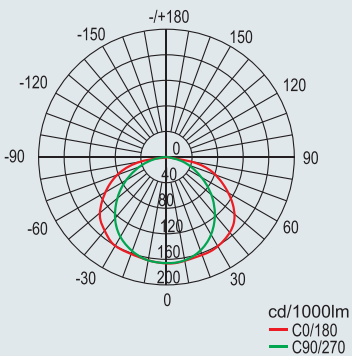
BAY51-18x2□□

Rated luminous flux
18Wx2: 2600lm



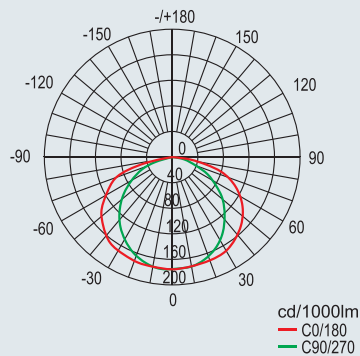
BAY51-36x1□□

Rated luminous flux
36Wx1: 3250lm



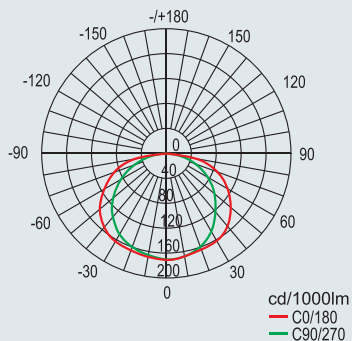
BAY51-36x2□□

Rated luminous flux
36Wx2: 6500lm



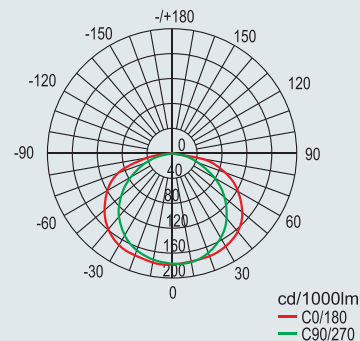
BAY51-58x1□□

Rated luminous flux
58Wx1: 5000lm



BAY51-58x2□□

Rated luminous flux
58Wx2: 10000lm



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

Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data

Explosion-proof LED light fittings for fluorescent lamp BAY51-LED□ × □□

Explosion protection

- Gas explosion protection
- Dust explosion protection

Ex II 2 G Ex d IIC T6 Gb

Ex II 2 D Ex t IIIC T80°C Db IP66

Certificates

LCIE 11 ATEX 3112X; IECEx QCM 12.0005; CU-TR

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
- Glass tube
- LED driver

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

Toughened glass, stands 4J impact

Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.95, with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit.

- Wire guard (optional)
- Exposed fastener

Powder coated carbon steel (white) or stainless steel

Stainless steel

Lamp

- Lamp specification
- Lamp power (W)
- Colour Temperature (CCT)

International brand of LED module (supplied with the light fittings)

9W x 1, 9W x 2, 18W x 1, 18W x 2, 28W x 1, 28W x 2

Cool white: 5400 ~ 6500K

Note: cool white is available in general. Warm white (2700~3500K) or nature white (4700~5400K) is optional, please specify when ordering.

Rated voltage

110~265V AC 50/60Hz

Earthing protection

M5 (internal & external earth bolts)

Degree of protection

IP66, IP67(optional)

Ambient temperature

-40°C~+55°C

Terminal

3 x 1.5~4mm² (L+N+PE)

Mounting

Ceiling type, pole type

Cable entries

- Single lamp
- Dual lamp

2 x M25 x 1.5 plugs

2 x M25 x 1.5 plugs

Cable gland

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27

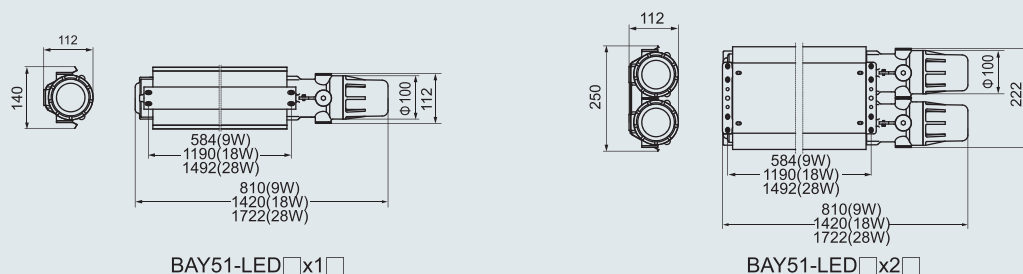


Selection table

Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
BAY51-LED 9 x 1X	9 x 1	5.50	BAY51-LED 9 x 2X	9 x 2	9.80
BAY51-LED 9 x 1L	9 x 1	5.90	BAY51-LED 9 x 2L	9 x 2	10.50
BAY51-LED 18 x 1X	18 x 1	8.30	BAY51-LED 18 x 2X	18 x 2	15.70
BAY51-LED 18 x 1L	18 x 1	8.35	BAY51-LED 18 x 2L	18 x 2	16.40
BAY51-LED 28 x 1X	28 x 1	10.00	BAY51-LED 28 x 2X	28 x 2	17.30
BAY51-LED 28 x 1L	28 x 1	10.30	BAY51-LED 28 x 2L	28 x 2	18.30

Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/17~18).

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



Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data	
Explosion-proof LED light fittings for fluorescent lamp BAY51-LED□ × □□J	
Explosion protection	Gas explosion protection Dust explosion protection
Certificates	EUT 14 ATEX 1885; IECEx CQM 14.0051X; CU-TR
Conformity to standards	EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-31: 2009 IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-31: 2008
Material	
Enclosure	Copper-free aluminium, powder coated surface, yellow (RAL1021)
Glass tube	Toughened glass, stands 4J impact
LED driver	Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.95, with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit.
Emergency unit	Special emergency controller and Ni-MH battery pack, with protection against over-charge and overdischarge
Wire guard (optional)	Powder coated carbon steel (white) or stainless steel
Exposed fastener	Stainless steel
Lamp	
Lamp specification	International brand of LED module (supplied with the light fittings)
Lamp power (W)	9W x 2, 18W x 2, 28W x 2
Colour Temperature (CCT)	Cool white: 5400 ~ 6500K
	Note: cool white is available in general. Warm white (2700~3500K) or nature white (4700~5400K) is optional, please specify when ordering.
Emergency power (W)	9W x 1, 18W x 1, 28W x 1
Emergency starting time	0.3s
Charging time	24h
Emergency lighting time	120min (180min is optional)
Rated voltage	110~265V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66, IP67 (optional)
Ambient temperature	-20°C~+55°C
Terminal	3 x 1.5~4mm ² (L+N+PE)
Cable entries	4 x M25 x 1.5 plugs
Cable gland(optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27



Selection table								
Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
BAY51-LED 9 x 2XJ	9 x 2	13.70	BAY51-LED 18 x 2XJ	18 x 2	19.40	BAY51-LED 28 x 2XJ	28 x 2	21.40
BAY51-LED 9 x 2LJ	9 x 2	13.80	BAY51-LED 18 x 2LJ	18 x 2	19.50	BAY51-LED 28 x 2LJ	28 x 2	21.50

Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/19).

Dimension drawings (all dimensions in mm) - subject to alteration	
BAY51- LED□x2□J	

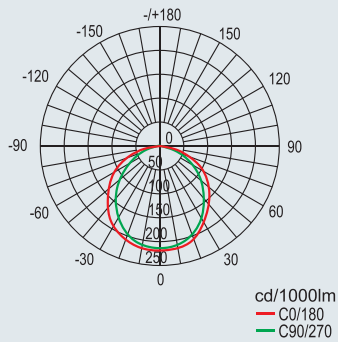
Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5400 to 6500K (cool white).

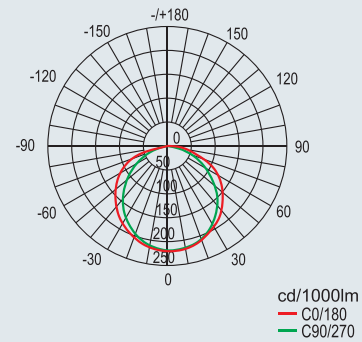
BAY51-LED 9x1□

Rated luminous flux
LED 9Wx1: 945lm



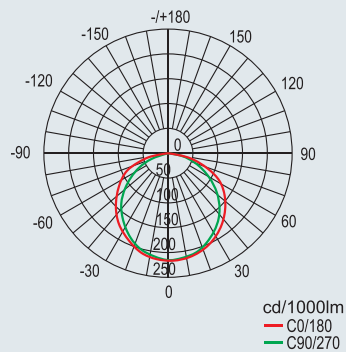
BAY51-LED 9x2□□

Rated luminous flux
LED 9Wx2: 1890lm



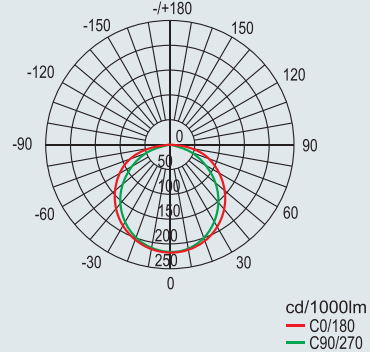
BAY51-LED 18x1□

Rated luminous flux
LED 18Wx1: 1890lm



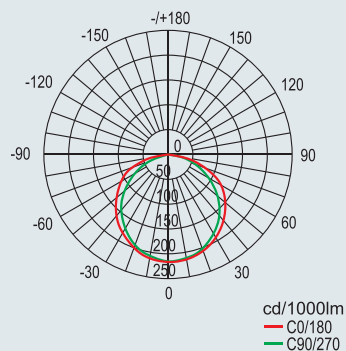
BAY51-LED 18x2□□

Rated luminous flux
LED 18Wx2: 3780lm



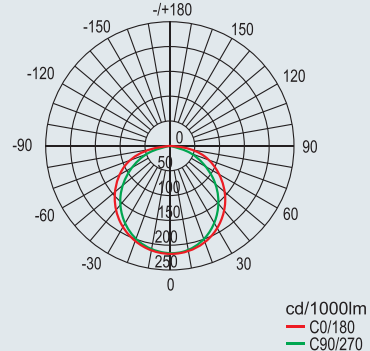
BAY51-LED 28x1□

Rated luminous flux
LED 28Wx1: 2940lm



BAY51-LED 28x2□□

Rated luminous flux
LED 28Wx2: 5580lm



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

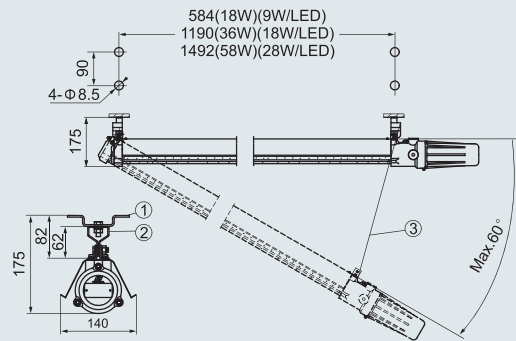
Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

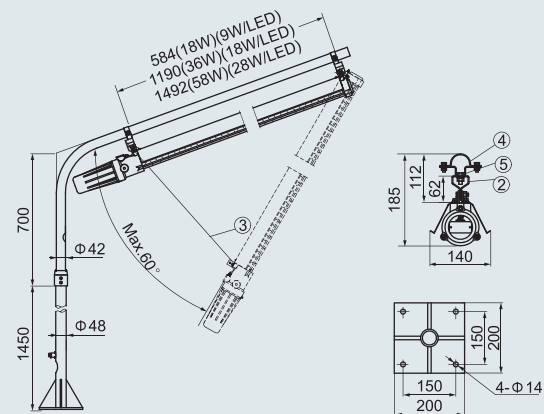
Mounting type for light fittings with single lamp tube (all dimensions in mm) - subject to alteration

Installation reference

X: ceiling type



L: pole type (the pole is provided by user)



Mounting accessories and spare parts table (light fittings with single lamp tube)

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
X: ceiling type	①.Mounting bracket	2		5136030	0.07
	②.Connector	2		51S01X1	0.04
	③.Steel wire rope (with hook)	1	Length: 0.7m (18W), 1.3m (36W), 1.6m (58W)	51S01X2	0.30~0.50
L: pole type	④.G1 1/4" Pipe clamp	2		5136014	0.04
	⑤.Mounting bracket	2		5136012	0.04
	②.Connector	2	Same as ceiling type	51S01X1	0.04
	③.Steel wire rope (with hook)	1	Same as ceiling type	51S01X2	0.30~0.50

Note: Accessories not in the table shall be supplied by user.

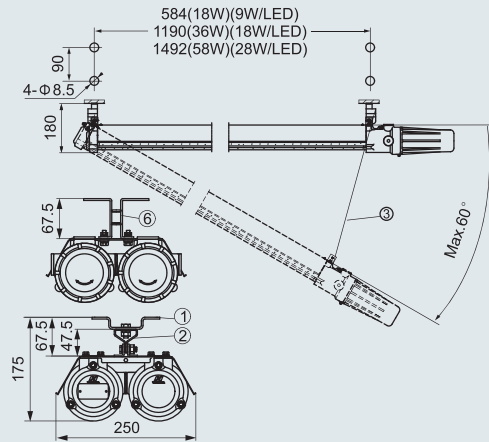
Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

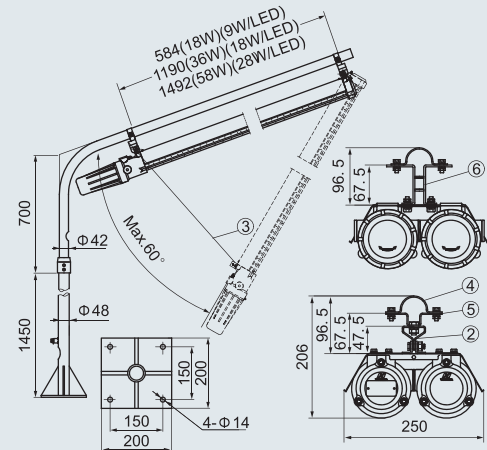
Mounting type for light fittings with dual lamp tube (all dimensions in mm) - subject to alteration

Installation reference

X: ceiling type



L: pole type (the pole is provided by user)



Mounting accessories and spare parts table (light fittings with dual lamp tube)

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
X: ceiling type	①.Mounting bracket	1		5136030	0.07
	②.Connector	1		51S01X1	0.04
	③.Steel wire rope (with hook)	1	Length: 0.7m (18W), 1.3m (36W), 1.6m (58W)	51S01X2	0.30~0.50
	⑥.Mounting bracket	1		51D01X3	0.13
L: pole type	④.G1 1/4" Pipe clamp	2		5136014	0.04
	⑤.Mounting bracket	1		5136012	0.04
	②.Connector	2	Same as ceiling type	51S01X1	0.04
	③.Steel wire rope (with hook)	1	Same as ceiling type	51S01X2	0.30~0.50
	⑥.Mounting bracket	1	Same as ceiling type	51D01X3	0.13

Note: Accessories not in the table shall be supplied by user.

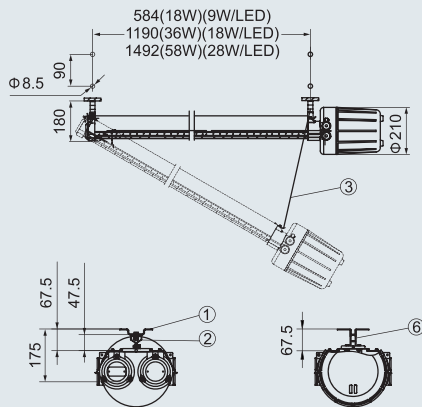
Light Fittings for Fluorescent Lamp

BAY51 Series Explosion-proof Light Fittings for Fluorescent Lamp

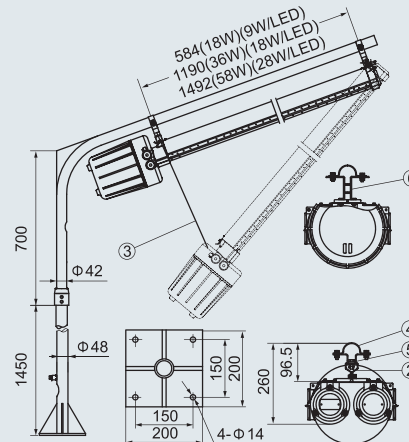
Mounting type for light fittings with dual lamp tube (all dimensions in mm) - subject to alteration

Installation reference

X: ceiling type (for: BAY51-□×2XJ; BAY51-LED□×2XJ)



L: pole type (the pole is provided by user)
(for: BAY51-□×2LJ; BAY51-LED□×2LJ)



Mounting accessories and spare parts table (light fittings with dual lamp tube)

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
X: ceiling type	①.Mounting bracket	1		5136030	0.07
	②.Connector	1		51S01X1	0.04
	③.Steel wire rope (with hook)	1	Length: 0.7m (18W), 1.3m (36W), 1.6m (58W)	51S01X2	0.30~0.50
	⑥.Mounting bracket	1		51D01X3	0.13
L: pole type	④.G1 1/4" Pipe clamp	2		5136014	0.04
	⑤.Mounting bracket	1		5136012	0.04
	②.Connector	2	Same as ceiling type	51S01X1	0.04
	③.Steel wire rope (with hook)	1	Same as ceiling type	51S01X2	0.30~0.50
	⑥.Mounting bracket	1	Same as ceiling type	51D01X3	0.13

Note: Accessories not in the table shall be supplied by user.

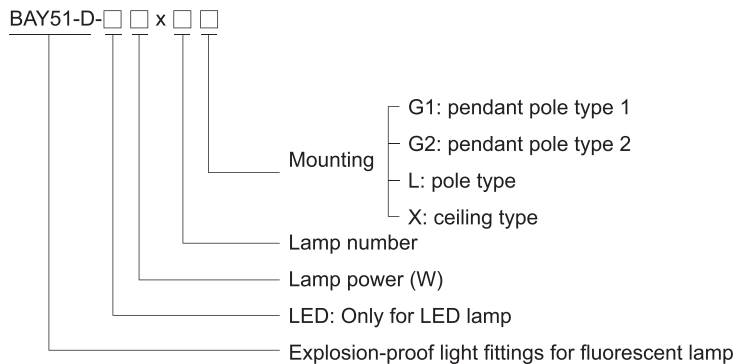
Light Fittings for Fluorescent Lamp

BAY51-D Series Explosion-proof Light Fittings for Fluorescent Lamp

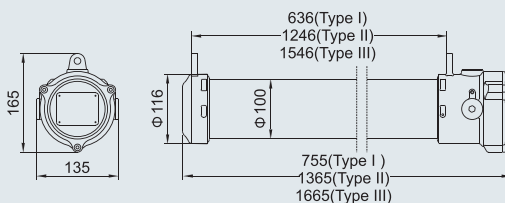


- ◆ Explosion Protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 1, Groups A, B, C, D
- ◆ Three enclosure types: Type I, Type II and Type III
 - Available lamp and power
 - Type I: T8 18W x 2, T5 14W x 2, LED 9W x 2
 - Type II: T8 36W x 2, T5 28W x 2, LED 18W x 2
 - Type III: T8 58W x 2, T5 35W x 2, LED 28W x 2
- ◆ The glass tube stands 4J impact.
- ◆ Enclosure in copper-free aluminium, powder coated surface, yellow (RAL1021).
- ◆ Built-in electronic ballast, wide voltage input, rapid starting, stable performance, power factor $\geq$ 0.95.
- ◆ Built-in LED driver, wide voltage input, CC-CV (constant current - constant voltage) output, power factor $\geq$ 0.95.
- ◆ End of lamp life (EOL) rectification effect protection.

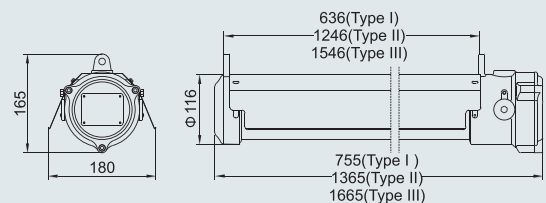
Catalogue number logic



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



BAY51-D-□□x2□
Without external reflector



BAY51-D-□□x2□
With external reflector

Zones 1&2; 21&22

Light Fittings for Fluorescent Lamp

BAY51-D Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data	
Explosion-proof light fittings for fluorescent lamp BAY51-D-□□ × □□	
Explosion protection	
Gas explosion protection	II 2 G Ex d IIC T6 Gb
Dust explosion protection	II 2 D Ex tb IIIC T80°C Db IP66
Certificates	LCIE 15 ATEX _____ ; IECEx
Conformity to standards	EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-31: 2009 IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-31: 2008
Material	
Enclosure	Copper-free aluminium, powder coated surface, yellow (RAL1021)
Glass tube	Toughened glass, stands 4J impact
Ballast	Electronic ballast
LED driver	Wide voltage input, CC-CV (constant current - constant voltage) output, power factor≥0.95, with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit.
Wire guard (optional)	Powder coated carbon steel (white) or stainless steel
External reflector (optional)	Powder coated carbon steel (white) or stainless steel
Exposed fastener	Stainless steel
Lamp	
Lamp specification	International brand of T8 fluorescent lamp (supplied with the light fittings) International brand of T5 fluorescent lamp (supplied with the light fittings) International brand of LED module (supplied with the light fittings)
Lamp power (W)	T8: 18Wx2, 36Wx2, 58Wx2 T5: 14Wx2, 28Wx2, 35Wx2 LED: 9Wx2, 18Wx2, 28Wx2
Colour Temperature (CCT)	Cool white: 5400 ~ 6500K Note: cool white is available in general. Warm white (2700~3500K) or nature white (4700~5400K) is optional, please specify when ordering.
Rated voltage	T8/T5: 220~240V AC 50/60Hz; 100~300V AC 50/60Hz; LED: 110~265V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66, IP67 (optional)
Ambient temperature	-40°C~+55°C
Terminal	3 x 1.5~4mm ² (L+N+PE)
Cable entries	2 x M25 x 1.5 plugs
Cable gland(optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27



Selection table								
Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
BAY51-D-18 x 2G1	18x2	5.85	BAY51-D-LED 9 x 2G1	9x2	5.75	BAY51-D-14 x 2G1	14x2	5.65
BAY51-D-18 x 2G2	18x2	7.00	BAY51-D-LED 9 x 2G2	9x2	6.90	BAY51-D-14 x 2G2	14x2	6.80
BAY51-D-18 x 2X	18x2	5.52	BAY51-D-LED 9 x 2X	9x2	5.42	BAY51-D-14 x 2X	14x2	5.32
BAY51-D-18 x 2L	18x2	5.64	BAY51-D-LED 9 x 2L	9x2	5.54	BAY51-D-14 x 2L	14x2	5.44
BAY51-D-36 x 2G1	36x2	8.45	BAY51-D-LED 18 x 2G1	18x2	8.35	BAY51-D-28 x 2G1	28x2	8.25
BAY51-D-36 x 2G2	36x2	9.63	BAY51-D-LED 18 x 2G2	18x2	9.53	BAY51-D-28 x 2G2	28x2	9.43
BAY51-D-36 x 2X	36x2	8.13	BAY51-D-LED 18 x 2X	18x2	8.03	BAY51-D-28 x 2X	28x2	7.93
BAY51-D-36 x 2L	36x2	8.25	BAY51-D-LED 18 x 2L	18x2	8.15	BAY51-D-28 x 2L	28x2	8.05
BAY51-D-58 x 2G1	58x2	9.72	BAY51-D-LED 28 x 2G1	28x2	9.62	BAY51-D-35 x 2G1	35x2	9.52
BAY51-D-58 x 2G2	58x2	10.90	BAY51-D-LED 28 x 2G2	28x2	10.80	BAY51-D-35 x 2G2	35x2	10.70
BAY51-D-58 x 2X	58x2	9.40	BAY51-D-LED 28 x 2X	28x2	9.30	BAY51-D-35 x 2X	35x2	9.20
BAY51-D-58 x 2L	58x2	9.52	BAY51-D-LED 28 x 2L	28x2	9.42	BAY51-D-35 x 2L	35x2	9.32

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/23).
2. The light fittings are supplied without wire guard and external reflector. Please specify when ordering.

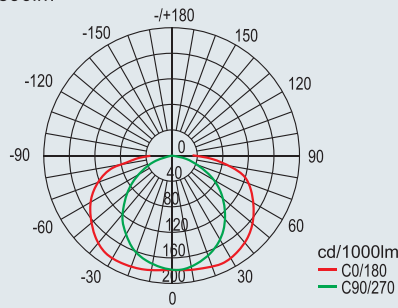
Light Fittings for Fluorescent Lamp

BAY51-D Series Explosion-proof Light Fittings for Fluorescent Lamp

Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5400 to 6500K (cool white).

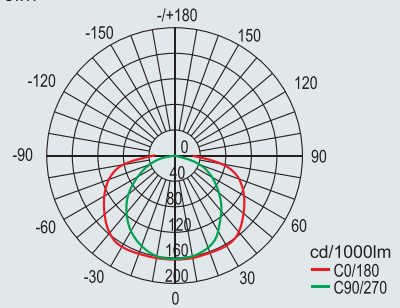
BAY51-D-18x2□(without external reflector)
BAY51-D-14x2□(without external reflector)
BAY51-D-LED 9x2□(without external reflector)

Rated luminous flux
T8: 18Wx2: 2600lm
T5: 14Wx2: 2500lm
LED: 9Wx2: 1890lm



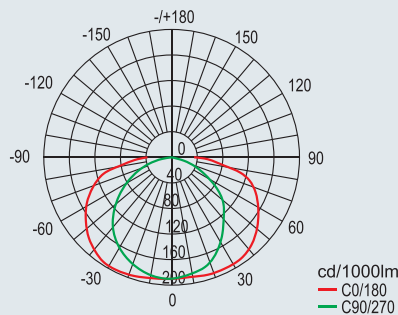
BAY51-D-18x2□(with external reflector)
BAY51-D-14x2□(with external reflector)
BAY51-D-LED 9x2□(with external reflector)

Rated luminous flux
T8: 18Wx2: 2600lm
T5: 14Wx2: 2500lm
LED: 9Wx2: 1890lm



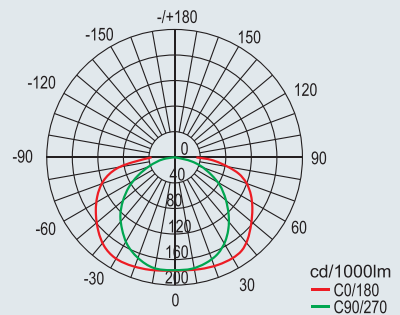
BAY51-D-36x2□(without external reflector)
BAY51-D-28x2□(without external reflector)
BAY51-D-LED 18x2□(without external reflector)

Rated luminous flux
T8: 36Wx2: 6500lm
T5: 28Wx2: 5400lm
LED: 18Wx2: 3780lm



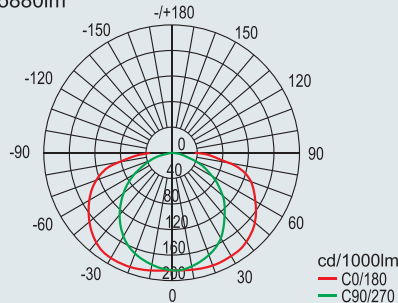
BAY51-D-36x2□(with external reflector)
BAY51-D-28x2□(with external reflector)
BAY51-D-LED 18x2□(with external reflector)

Rated luminous flux
T8: 36Wx2: 6500lm
T5: 28Wx2: 5400lm
LED: 18Wx2: 3780lm



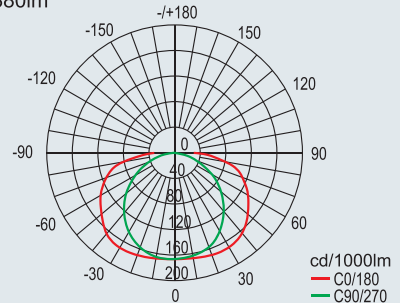
BAY51-D-58x2□(without external reflector)
BAY51-D-35x2□(without external reflector)
BAY51-D-LED 28x2□(without external reflector)

T8: 58Wx2: 10000lm
T5: 35Wx2: 6800lm
LED: 28Wx2: 5880lm



BAY51-D-58x2□(with external reflector)
BAY51-D-35x2□(with external reflector)
BAY51-D-LED 28x2□(with external reflector)

T8: 58Wx2: 10000lm
T5: 35Wx2: 6800lm
LED: 28Wx2: 5880lm



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



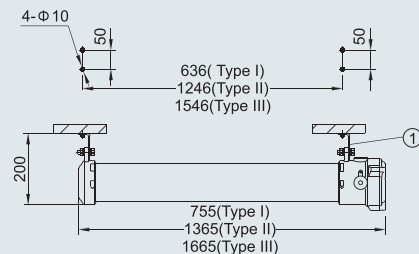
Light Fittings for Fluorescent Lamp

BAY51-D Series Explosion-proof Light Fittings for Fluorescent Lamp

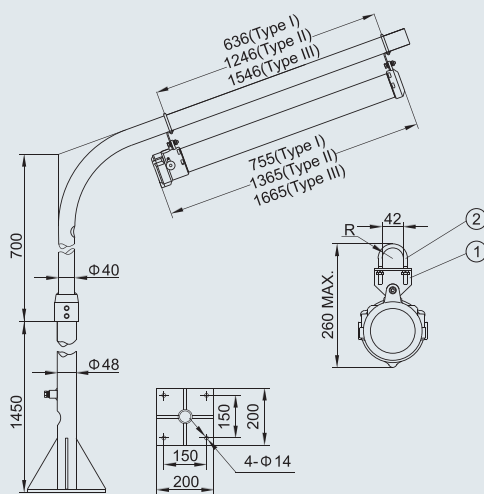
Mounting type for light fittings with dual lamp tube (all dimensions in mm) - subject to alteration

Installation reference

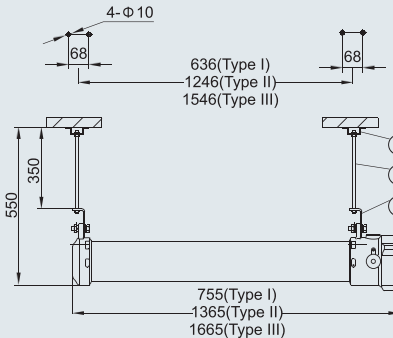
X: ceiling type



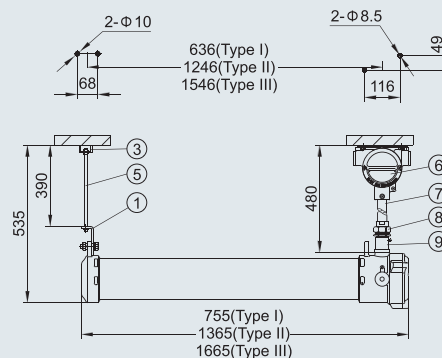
L: pole type (the pole is provided by user)



G1: pendant pole type 1



G2: pendant pole type 2



Mounting accessories and spare parts table (light fittings with dual lamp tube)

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight(kg)
	Name	Qty	Illustration		
X: ceiling type	① Mounting plate	2	Carbon steel	51DX01	0.25
L: pole type	① Mounting plate	2	Carbon steel	51DX01	0.25
	② U type pipe clamp	2	Carbon steel	51L01	0.15
G1: pendant pole type 1	① Mounting plate	2	Carbon steel	51DX01	0.25
	③ Mounting bracket	2	Carbon steel	51S01G1	0.04
	④ M8 screw	2	Length: 350mm	51S01G2	0.12
G2: pendant pole type 2	① Mounting plate	2	Carbon steel	51DX01	0.25
	③ Mounting bracket	1	Carbon steel	51S01G1	0.04
	⑤ M8 screw	1	Length: 390mm	51S01G3	0.15
	⑥ BHD51 Explosion-proof junction box	1	Copper-free aluminium (Ex d IIC)	BHD51-F	0.80
	⑦ Straight pipe (M25 x 1.5)	1	Length: 300mm	81G01	0.41
	⑧ BGJ-III Explosion-proof connector	1	M25x1.5(F)/M25x1.5(M) Carbon steel	81D03	0.26
	⑨ Explosion-proof connector	1	M25x1.5(F)/M25x1.5(M) Carbon steel	51G201	0.22

Note: Accessories not in the table shall be supplied by user.

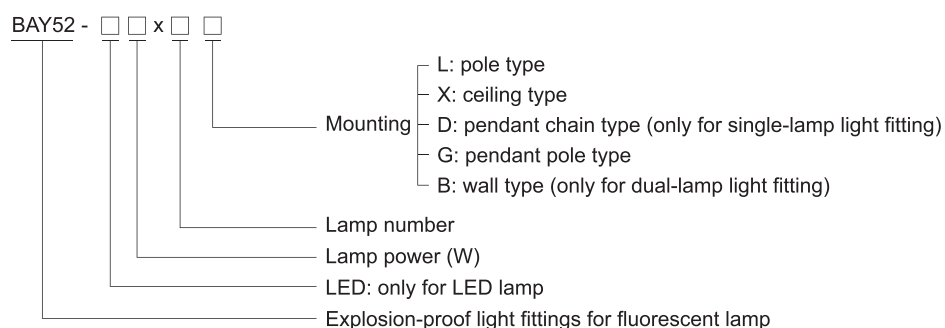
Light Fittings for Fluorescent Lamp

BAY52 Series Explosion-proof Light Fittings for Fluorescent Lamp



- ◆ Explosion Protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
- ◆ Available lamp and power
 - T8 Fluorescent Lamps: 18W x 1, 36W x 1, 18W x 2, 36W x 2
 - LED lamps: 9W x 1, 18W x 1, 9W x 2, 18W x 2
- ◆ T8 Fluorescent Lamps: Built-in electromagnetic ballast
(Electronic ballast is optional, please specify when ordering).
- ◆ LED lamps: Built-in LED driver, wide voltage input, CC-CV
(constant current - constant voltage) output, power factor ≥ 0.95 .
- ◆ Enclosure in copper-free aluminium, powder coated surface,
yellow (RAL1021).

Catalogue number logic



■ Selection table

Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
BAY52-18 x 1X	18 x 1	3.90	BAY52-36 x 2X	36 x 2	12.00	BAY52-LED 9 x 2X	9 x 2	7.80
BAY52-18 x 1L	18 x 1	4.00	BAY52-36 x 2L	36 x 2	11.70	BAY52-LED 9 x 2L	9 x 2	7.50
BAY52-18 x 1D	18 x 1	4.20	BAY52-36 x 2G	36 x 2	12.50	BAY52-LED 9 x 2D	9 x 2	8.10
BAY52-18 x 1G	18 x 1	4.20	BAY52-36 x 2B	36 x 2	12.40	BAY52-LED 9 x 2G	9 x 2	8.70
BAY52-36 x 1X	36 x 1	4.80	BAY52-LED 9 x 1X	9 x 1	4.10	BAY52-LED 18 x 2X	18 x 2	12.20
BAY52-36 x 1L	36 x 1	5.00	BAY52-LED 9 x 1L	9 x 1	4.20	BAY52-LED 18 x 2L	18 x 2	11.90
BAY52-36 x 1D	36 x 1	5.10	BAY52-LED 9 x 1D	9 x 1	4.40	BAY52-LED 18 x 2D	18 x 2	12.70
BAY52-36 x 1G	36 x 1	5.10	BAY52-LED 9 x 1G	9 x 1	4.40	BAY52-LED 18 x 2G	18 x 2	12.60
BAY52-18 x 2X	18 x 2	7.60	BAY52-LED 18 x 1X	18 x 1	5.00			
BAY52-18 x 2L	18 x 2	7.30	BAY52-LED 18 x 1L	18 x 1	5.20			
BAY52-18 x 2G	18 x 2	7.90	BAY52-LED 18 x 1D	18 x 1	5.30			
BAY52-18 x 2B	18 x 2	8.50	BAY52-LED 18 x 1G	18 x 1	5.30			

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/26~27).
2. Wall type is applicable for dual-lamp light fitting only.
3. Pendant chain type is applicable for single-lamp light fitting only.

Zones 1&2

Light Fittings for Fluorescent Lamp

BAY52 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data	
Explosion-proof light fittings for fluorescent lamp BAY52-□□×□□	
Explosion protection	
Gas explosion protection	Ex II 2 G Ex d IIC T6 Gb
Dust explosion protection	Ex tD A21 T80°C IP66
Certificates	PCEC (China)
Conformity to standards	IEC 60079-0:2007, IEC 60079-1:2007, IEC 61241-0:2004, IEC 61241-1:2004
Material	
Enclosure	Copper-free aluminium, powder coated surface, yellow (RAL1021)
Ballast	Electromagnetic ballast (Electronic ballast is optional)
Exposed fastener	Stainless steel
LED driver	Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.95 , with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit.
Lamp	
Lamp specification	International brand of T8 fluorescent lamp (supplied with the light fittings) International brand of LED module (supplied with the light fittings)
Lamp power (W)	T8: 18Wx1, 36Wx1, 18Wx2, 36Wx2 LED: 9Wx1, 18Wx1, 9Wx2, 18Wx2
Colour Temperature (CCT)	Cool white: 5400 ~ 6500K Note: cool white is available in general. Warm white (2700~3500K) or nature white (4700~5400K) is optional, please specify when ordering.
Rated voltage	T8: 220~240V AC 50Hz (60Hz is optional) (with electromagnetic ballast) T8: 220~240V AC 50/60Hz (with electronic ballast) LED: 110~265V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	-20°C~+55°C
Terminal	3 x 1.5~2.5mm ² (L+N+PE)
Cable entries	1 x G3/4" (1 x M25 x 1.5 for pole type dual-lamp light fittings, M25 x 1.5 or M20 x 1.5 with connector on request)
Cable gland	See Mounting Accessories and Spare Parts Table
Available cable outer diameter	Φ 10~Φ 14 (mm)

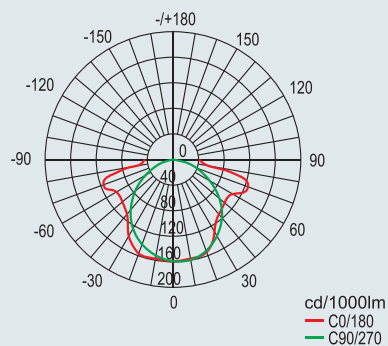


Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5400 to 6500K (cool white).

BAY52-□□x1□

Rated luminous flux

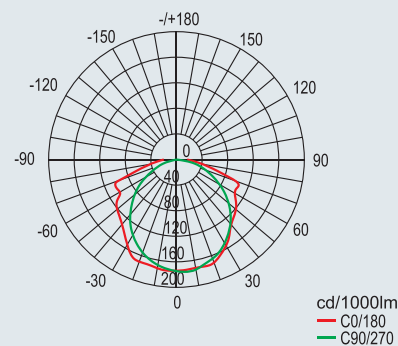
T8: 18Wx1: 1300lm
T8: 36Wx1: 3250lm
LED: 9Wx1: 945lm
LED: 18Wx1: 1890lm



BAY52-□□x2□

Rated luminous flux

T8: 18Wx2: 2600lm
T8: 36Wx2: 6500lm
LED: 9Wx2: 1890lm
LED: 18Wx2: 3780lm



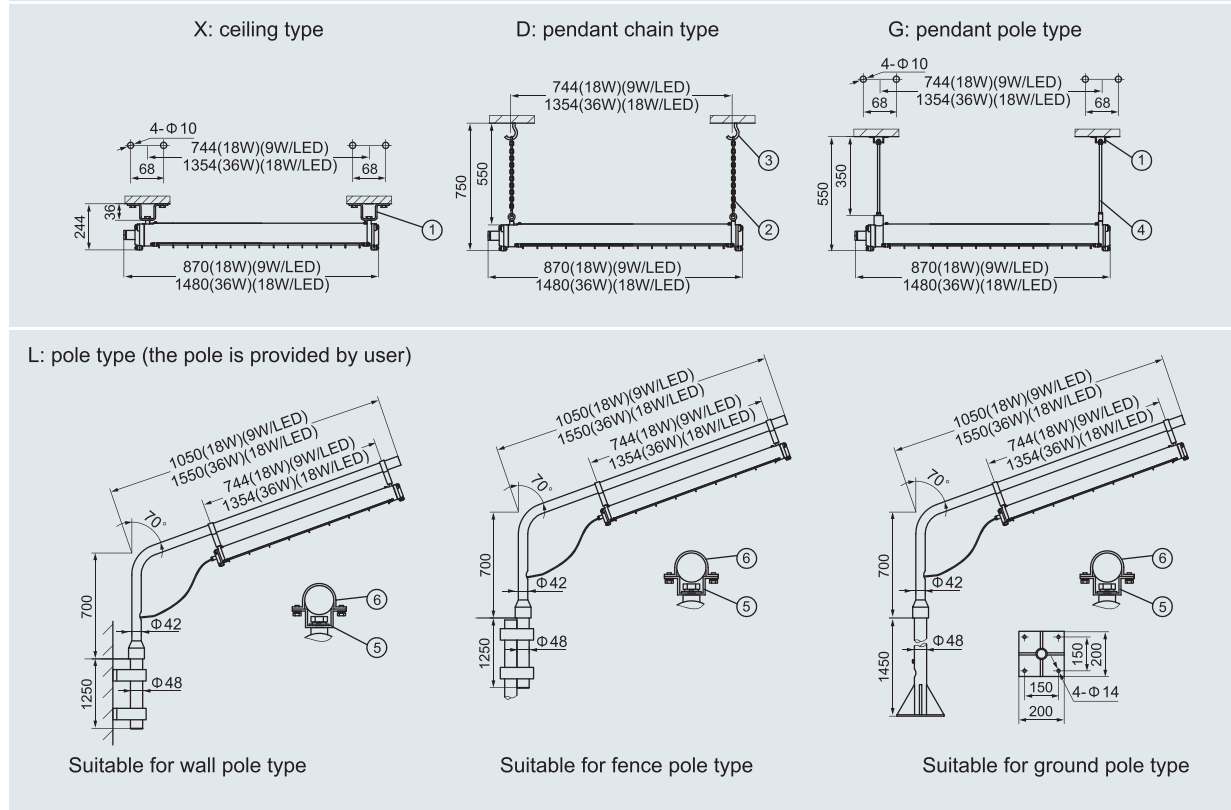
We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

Light Fittings for Fluorescent Lamp

BAY52 Series Explosion-proof Light Fittings for Fluorescent Lamp

Mounting type for light fittings with single lamp tube (all dimensions in mm) - subject to alteration

Installation reference



Mounting accessories and spare parts table (light fittings with single lamp tube)

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
X: ceiling type	①.Mounting bracket	2		51S01G1	0.04
	②.Chain	2	Length: 450mm	5136016	0.08
D: pendant chain type	③.Hook expansion bolt	2		52017	0.03
	④.M8 Screw	2	Length: 350mm	51S01G2	0.12
G: pendant pole type	①.Mounting bracket	2	Same as ceiling type	51S01G1	0.04
	④.M8 Screw	2	Length: 350mm	51S01G2	0.12
L: pole type	⑤.Mounting bracket	2		5136012	0.04
	⑥.G1 1/4" Pipe clamp	2		5136014	0.04

Note: Accessories not in the table shall be supplied by user.

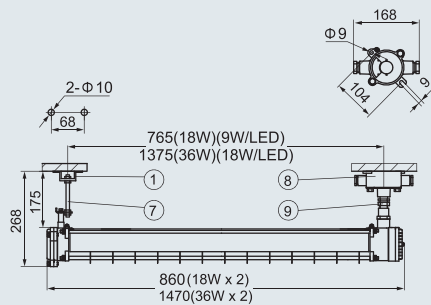
Light Fittings for Fluorescent Lamp

BAY52 Series Explosion-proof Light Fittings for Fluorescent Lamp

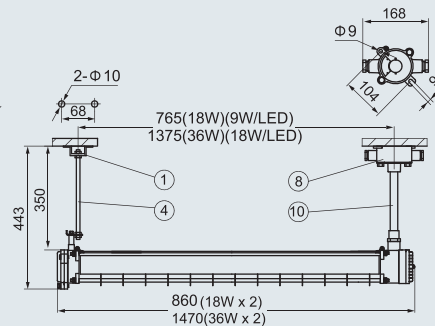
Mounting type for light fittings with dual lamp tube (all dimensions in mm) - subject to alteration

Installation reference

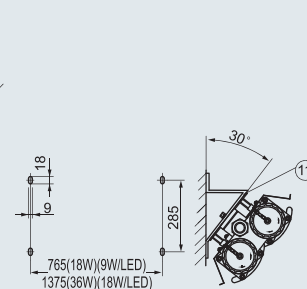
X: ceiling type



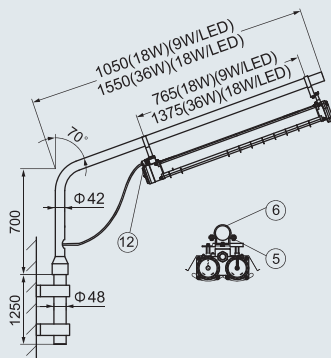
G: pendant pole type



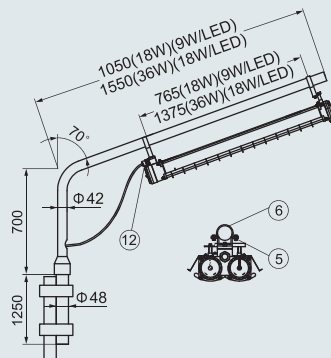
B: wall type



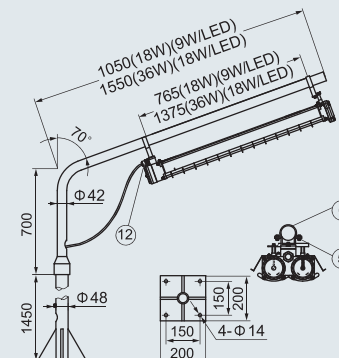
L: pole type (the pole is provided by user)



Suitable for wall pole type



Suitable for fence pole type



Suitable for ground pole type

Mounting accessories and spare parts table (light fittings with dual lamp tube)

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
X: ceiling type	①.Mounting bracket	1	Same as light fittings with single lamp	51S01G1	0.04
	⑦.M8 Screw	1	Length:150mm	52D01X1	0.08
	⑧.BHD51 Explosion-proof junction box	1	G3/4"(Ex e)	52D01X2	0.40
	⑨.BGJ-III Explosion-proof connector	1	G3/4"(M)/G3/4"(M)	See P7/8	0.28
G: pendant pole type	①.Mounting bracket	1	Same as light fittings with single lamp	51S01G1	0.04
	④.M8 Screw	1	Length: 350mm	51S01G2	0.12
	⑧.BHD51 Explosion-proof junction box	1	G3/4"(Ex e)	52D01X2	0.40
	⑩.Straight pipe (G3/4")	1	Length: 250mm	52D01G1	0.34
B: wall type	⑪.Wall bracket	2	Welded sheet steel	5236B01	0.60
L: pole type	⑤.Mounting bracket	2	Same as light fittings with single lamp	5136012	0.04
	⑥.G1 1/4"Pipe clamp	2	Same as light fittings with single lamp	5136014	0.04
	⑫.DQM-II Explosion-proof cable gland	1	M25 x 1.5	See P7/20	0.25

Note: Accessories not in the table shall be supplied by user.

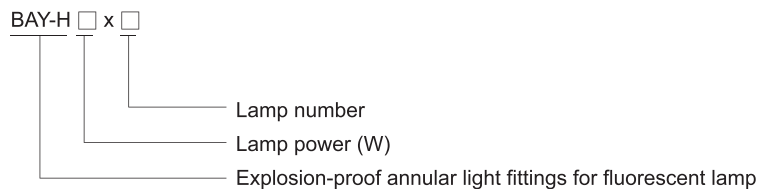
Light Fittings for Fluorescent Lamp

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



- ◆ 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 C, D
- ◆ Power: 21W x 1, 21W x 2.
- ◆ Enclosure in copper-free aluminium, powder coated surface, yellow (RAL1021).
- ◆ Powder coated wire guard, white.
- ◆ Toughened glass cover resistant to temperature changes.

Catalogue number logic



Selection table

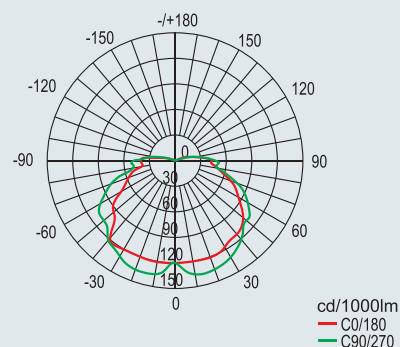
Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
BAY-H21 x 1	21 x 1	5.00	BAY-H21 x 2	21 x 2	5.60

Note: The light fittings are supplied with lamps.

Photometric data

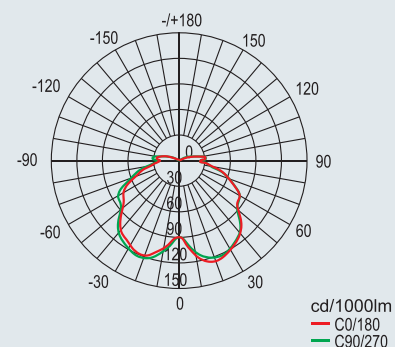
BAY-H 21x1

Rated luminous flux
21Wx1: 1000lm



BAY-H 21x2

Rated luminous flux
21Wx2: 2000lm



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

Zones 1&2; 21&22

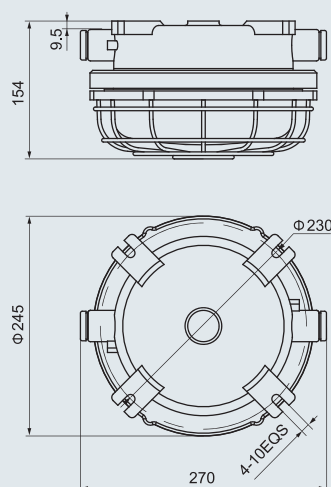
Light Fittings for Fluorescent Lamp

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

Technical data	
Explosion-proof annular light fittings for fluorescent lamp BAY-H□ × □	
Explosion protection	
Gas explosion protection	Ex II 2 G Ex d IIB T5 Gb
Dust explosion protection	Ex II 2 D Ex tb IIIC T95°C Db IP65
Certificates	LCIE 07 ATEX 6087; IECEx CQM 08.0003
Conformity to standards	EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-31: 2009 IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-31: 2008
Material	
Enclosure	Copper-free aluminium, powder coated surface, yellow (RAL1021)
Wire guard	Powder coated carbon steel (white)
Transparent cover	Toughened glass, stands 4J impact
Ballast	Electronic ballast, power factor ≥ 0.95
Reflector (internal)	High-purity aluminium
Exposed fastener	Stainless steel
Lamp	
Lamp specification	Biax 2D-4pin (GE Brand)
Lamp power (W)	21W x 1, 21W x 2
Lamp holder	GR-10q
Rated voltage	220~240V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP65
Ambient temperature	-20°C~+55°C
Terminal	3 x 1.5~2.5mm ² (L+N+PE)
Cable entries	2 x M25x1.5 plugs
Cable gland(optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27



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



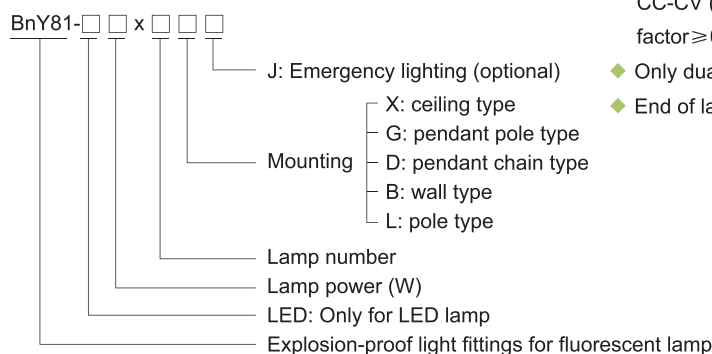
Light Fittings for Fluorescent Lamp

BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

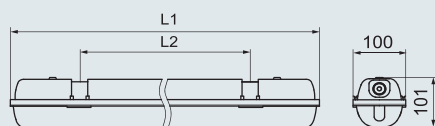


- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ Six enclosure types:
 - Single tube: three enclosure types
 - Dual tube: three enclosure types
- ◆ Applicable lamp power:
 - Fluorescent lamps: 18W x 1, 36W x 1, 58W x 1
18W x 2, 36W x 2, 58W x 2
 - LED lamps: 9W (10W) x 1, 18W(19W) x 1, 28W(25W) x 1
9W(10W) x 2, 18W(19W) x 2, 28W(25W) x 2
- ◆ Built-in electronic ballast, wide voltage input, rapid starting, stable performance, power factor ≥ 0.95 .
- ◆ LED light fittings: Built-in LED driver, wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.95 .
- ◆ Only dual tube light fittings have emergency lighting function.
- ◆ End of lamp life (EOL) rectification effect protection.

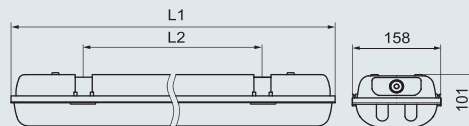
Catalogue number logic



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



BnY81-□ x 1□
BnY81-LED □ x 1□



BnY81-□ x 2□□
BnY81-LED □ x 2□□

Dimensions

Type	Size (mm)	
	L1	L2
BnY81-18x1□, BnY81-LED 9x1□	658	400
BnY81-36x1□, BnY81-LED 18x1□	1268	900
BnY81-58x1□, BnY81-LED 28x1□	1568	900

Type	Size (mm)	
	L1	L2
BnY81-18x2□□, BnY81-LED 9x2□□	658	400
BnY81-36x2□□, BnY81-LED 18x2□□	1268	900
BnY81-58x2□□, BnY81-LED 28x2□□	1568	900

Zones 2; 21&22

Light Fittings for Fluorescent Lamp

BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data							
Explosion-proof light fittings for fluorescent lamp BnY81-□ × □□□							
Explosion protection	Gas explosion protection Dust explosion protection						
Certificates	LCIE 12 ATEX 1009X (gas); LCIE 12 ATEX 3019X (dust); IECEx CQM 12.0046X CU-TR						
Conformity to standards	EN 60079-0: 2012, EN 60079-15: 2010, EN 60079-31: 2009 IEC 60079-0: 2011, IEC 60079-15: 2010, IEC 60079-31: 2008						
Material							
Enclosure	Polycarbonate, stands 7J impact, corrosion-proof						
Diffuser	Polycarbonate, 90% light transmission, stands 7J impact, corrosion-proof						
Ballast	Electronic ballast						
Exposed fastener	Stainless steel						
Lamp							
Lamp specification	International brand of T8 tube (supplied with the light fittings)						
Lamp power (W)	<table> <tr> <td>18W × 1</td><td>18W × 2</td></tr> <tr> <td>36W × 1</td><td>36W × 2</td></tr> <tr> <td>58W × 1</td><td>58W × 2</td></tr> </table>	18W × 1	18W × 2	36W × 1	36W × 2	58W × 1	58W × 2
18W × 1	18W × 2						
36W × 1	36W × 2						
58W × 1	58W × 2						
Rated voltage	100~300V AC 50/60Hz						
Degree of protection	IP66, IP67(optional)						
Ambient temperature	-20°C~+55°C						
Terminal	3 x 1.5~4mm ² (L+N+PE)						
Mounting	Ceiling type, pendant pole type, pendant chain type, wall type, pole type						
Cable entries	2 x Φ21: 2 x M20 x 1.5 cable glands (DQM-I Ex e, plastic)						
Available cable outer diameter	Φ6~Φ12 (mm)						
Emergency data							
Emergency unit	Special emergency controller and Ni-MH battery pile, with protection against overcharge and overdischarge						
Emergency power (W)	18W x 1, 36W x 1, 58W x 1						
Emergency starting time	0.3s						
Charging time	24h						
Emergency lighting time	120min (180min is optional)						



Selection table								
Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
BnY81-18 x 1X	18 x 1	1.60	BnY81-36 x 1X	36 x 1	2.70	BnY81-58 x 1X	58 x 1	2.90
BnY81-18 x 1G	18 x 1	1.80	BnY81-36 x 1G	36 x 1	2.90	BnY81-58 x 1G	58 x 1	3.10
BnY81-18 x 1D	18 x 1	1.95	BnY81-36 x 1D	36 x 1	3.05	BnY81-58 x 1D	58 x 1	3.30
BnY81-18 x 1B	18 x 1	1.95	BnY81-36 x 1B	36 x 1	3.05	BnY81-58 x 1B	58 x 1	3.30
BnY81-18 x 1L	18 x 1	1.65	BnY81-36 x 1L	36 x 1	2.75	BnY81-58 x 1L	58 x 1	3.00
BnY81-18 x 2X	18 x 2	2.00	BnY81-36 x 2X	36 x 2	3.20	BnY81-58 x 2X	58 x 2	4.00
BnY81-18 x 2G	18 x 2	2.20	BnY81-36 x 2G	36 x 2	3.40	BnY81-58 x 2G	58 x 2	4.20
BnY81-18 x 2D	18 x 2	2.35	BnY81-36 x 2D	36 x 2	3.55	BnY81-58 x 2D	58 x 2	4.35
BnY81-18 x 2B	18 x 2	2.35	BnY81-36 x 2B	36 x 2	3.55	BnY81-58 x 2B	58 x 2	4.40
BnY81-18 x 2L	18 x 2	2.05	BnY81-36 x 2L	36 x 2	2.25	BnY81-58 x 2L	58 x 2	4.05
BnY81-18 x 2XJ	18 x 2	3.05	BnY81-36 x 2XJ	36 x 2	4.25	BnY81-58 x 2XJ	58 x 2	5.05
BnY81-18 x 2GJ	18 x 2	3.25	BnY81-36 x 2GJ	36 x 2	4.45	BnY81-58 x 2GJ	58 x 2	5.25
BnY81-18 x 2DJ	18 x 2	3.40	BnY81-36 x 2DJ	36 x 2	4.55	BnY81-58 x 2DJ	58 x 2	5.40
BnY81-18 x 2BJ	18 x 2	3.45	BnY81-36 x 2BJ	36 x 2	4.55	BnY81-58 x 2BJ	58 x 2	5.45
BnY81-18 x 2LJ	18 x 2	3.10	BnY81-36 x 2LJ	36 x 2	4.30	BnY81-58 x 2LJ	58 x 2	5.10
Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/35).								

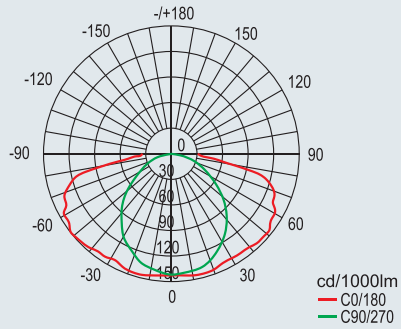
Light Fittings for Fluorescent Lamp

BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

Photometric data

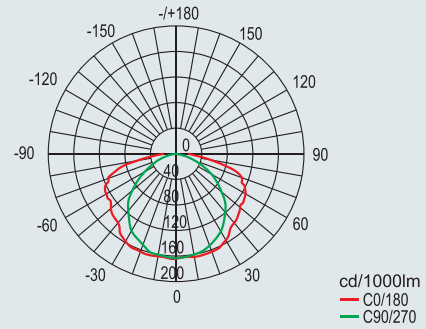
BnY81-18x1□

Rated luminous flux
18Wx1: 1300lm



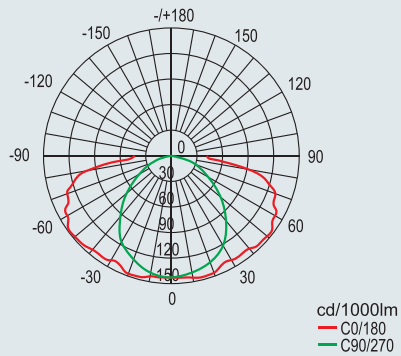
BnY81-18x2□□

Rated luminous flux
18Wx2: 2600lm



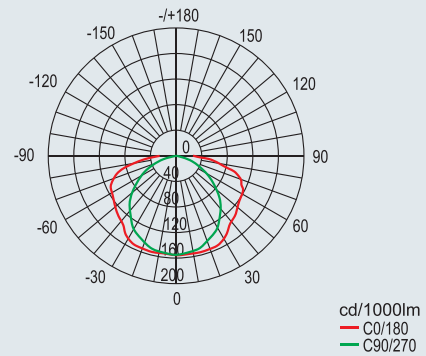
BnY81-36x1□

Rated luminous flux
36Wx1: 3250lm



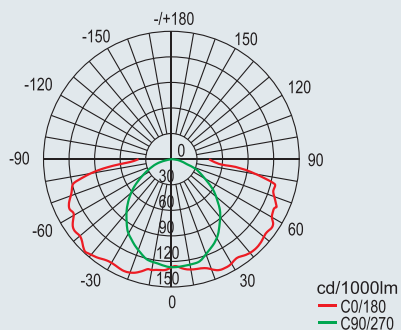
BnY81-36x2□□

Rated luminous flux
36Wx2: 6500lm



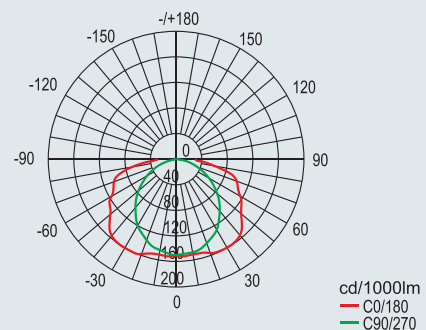
BnY81-58x1□

Rated luminous flux
58Wx1: 5000lm



BnY81-58x2□□

Rated luminous flux
58Wx2: 10000lm



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



Light Fittings for Fluorescent Lamp

BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

Technical data								
Explosion-proof light fittings for fluorescent lamp BnY81-LED□ × □□□								
Explosion protection Gas explosion protection Dust explosion protection			Ⓔ II 3 G Ex nA IIC T4 Gc Ⓔ II 2 D Ex tb IIIC T80℃ Db IP66					
Certificates			LCIE 12 ATEX 1009X (gas); LCIE 12 ATEX 3019X (dust); IECEx CQM 12.0046X CU-TR					
Conformity to standards			EN 60079-0: 2012, EN 60079-15: 2010, EN 60079-31: 2009 IEC 60079-0: 2011, IEC 60079-15: 2010, IEC 60079-31: 2008					
Material Enclosure Diffuser Exposed fastener LED driver			Polycarbonate, stands 7J impact, corrosion-proof Polycarbonate, 90% light transmission, stands 7J impact, corrosion-proof Stainless steel Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥0.95, with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit.					
Lamp Lamp specification Lamp power (W) Colour Temperature (CCT)			International brand of LED module (supplied with the light fittings) 9W(10W)×1, 9W(10W)×2, 18W(19W)×1, 18W(19W)×2, 28W(25W)×1, 28W(25W)×2 Cool white: 5400 ~ 6500K Note: cool white is available in general. Warm white (2700~3500K) or nature white (4700~5400K) is optional, please specify when ordering.					
Rated voltage			110~265V AC 50/60Hz					
Degree of protection			IP66, IP67(optional)					
Ambient temperature			-20℃~+55℃					
Terminal			3 x 1.5~4mm ² (L+N+PE)					
Mounting			Ceiling type, pendant pole type, pendant chain type, wall type, pole type					
Cable entries			2 x Φ21: 2 x M20 x 1.5 cable glands (DQM-I Ex e, plastic)					
Available cable outer diameter			Φ6~Φ12 (mm)					
Emergency data Emergency unit			Special emergency controller and Ni-MH battery pile, with protection against overcharge and overdischarge					
Emergency power (W)			9W x 1, 18W x 1, 28W x 1					
Emergency starting time			0.3s					
Charging time			24h					
Emergency lighting time			120min (180min is optional)					
Selection table								
Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
BnY81-LED 9 x 1X	9 x 1	1.50	BnY81-LED 18 x 1X	18 x 1	2.70	BnY81-LED 28 x 1X	28 x 1	2.85
BnY81-LED 9 x 1G	9 x 1	1.70	BnY81-LED 18 x 1G	18 x 1	2.90	BnY81-LED 28 x 1G	28 x 1	3.05
BnY81-LED 9 x 1D	9 x 1	1.85	BnY81-LED 18 x 1D	18 x 1	3.05	BnY81-LED 28 x 1D	28 x 1	3.25
BnY81-LED 9 x 1B	9 x 1	1.85	BnY81-LED 18 x 1B	18 x 1	3.05	BnY81-LED 28 x 1B	28 x 1	3.25
BnY81-LED 9 x 1L	9 x 1	1.55	BnY81-LED 18 x 1L	18 x 1	2.75	BnY81-LED 28 x 1L	28 x 1	2.95
BnY81-LED 9 x 2X	9 x 2	1.70	BnY81-LED 18 x 2X	18 x 2	3.10	BnY81-LED 28 x 2X	28 x 2	3.90
BnY81-LED 9 x 2G	9 x 2	1.90	BnY81-LED 18 x 2G	18 x 2	3.30	BnY81-LED 28 x 2G	28 x 2	4.10
BnY81-LED 9 x 2D	9 x 2	2.05	BnY81-LED 18 x 2D	18 x 2	3.45	BnY81-LED 28 x 2D	28 x 2	4.25
BnY81-LED 9 x 2B	9 x 2	2.05	BnY81-LED 18 x 2B	18 x 2	3.45	BnY81-LED 28 x 2B	28 x 2	4.30
BnY81-LED 9 x 2L	9 x 2	1.75	BnY81-LED 18 x 2L	18 x 2	3.15	BnY81-LED 28 x 2L	28 x 2	3.95
BnY81-LED 9 x 2XJ	9 x 2	2.20	BnY81-LED 18 x 2XJ	18 x 2	3.60	BnY81-LED 28 x 2XJ	28 x 2	4.40
BnY81-LED 9 x 2GJ	9 x 2	2.40	BnY81-LED 18 x 2GJ	18 x 2	3.80	BnY81-LED 28 x 2GJ	28 x 2	4.60
BnY81-LED 9 x 2DJ	9 x 2	2.55	BnY81-LED 18 x 2DJ	18 x 2	3.95	BnY81-LED 28 x 2DJ	28 x 2	4.75
BnY81-LED 9 x 2BJ	9 x 2	2.55	BnY81-LED 18 x 2BJ	18 x 2	3.95	BnY81-LED 28 x 2BJ	28 x 2	4.80
BnY81-LED 9 x 2LJ	9 x 2	2.25	BnY81-LED 18 x 2LJ	18 x 2	3.55	BnY81-LED 28 x 2LJ	28 x 2	4.45
Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/35).								



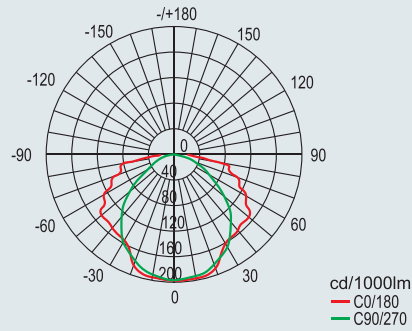
Light Fittings for Fluorescent Lamp

BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5400 to 6500K (cool white).

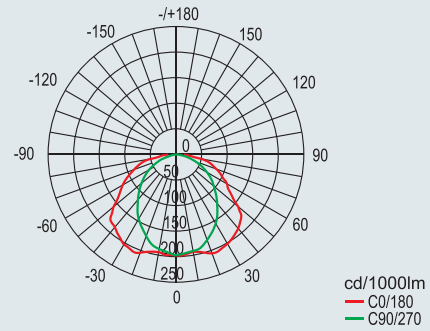
BnY81-LED 9x1

Rated luminous flux
LED 9Wx1: 945lm



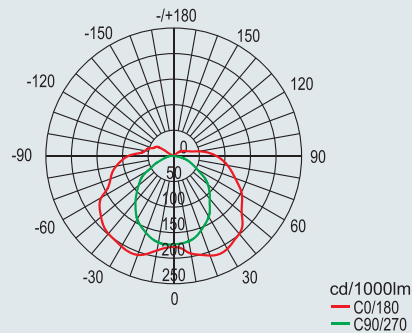
BnY81-LED 9x2

Rated luminous flux
LED 9Wx2: 1890lm



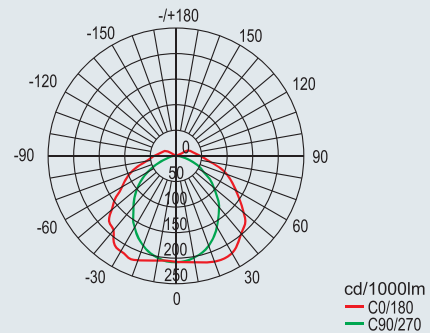
BnY81-LED 18x1

Rated luminous flux
LED 18Wx1: 1890lm



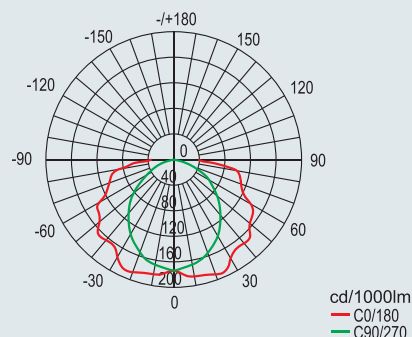
BnY81-LED 18x2

Rated luminous flux
LED 18Wx2: 3780lm



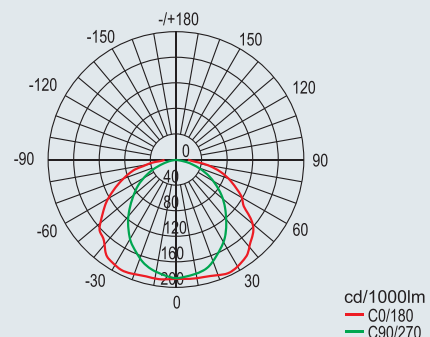
BnY81-LED 28x1

Rated luminous flux
LED 28Wx1: 2940lm



BnY81-LED 28x2

Rated luminous flux
LED 28Wx2: 5880lm



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

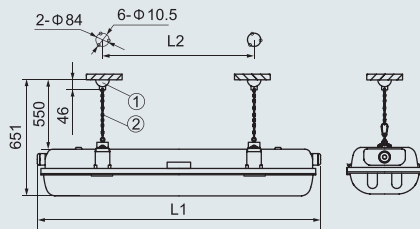
Light Fittings for Fluorescent Lamp

BnY81 Series Explosion-proof Light Fittings for Fluorescent Lamp

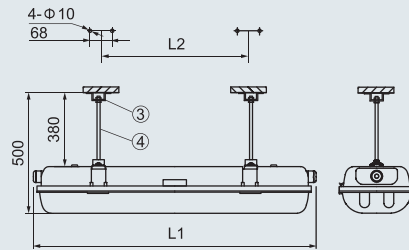
Mounting type (all dimensions in mm) - subject to alteration

Installation reference

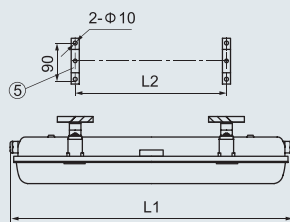
D: pendant chain type



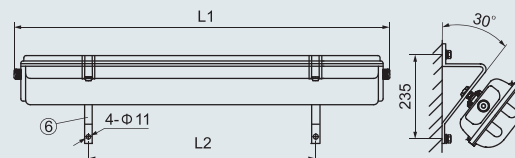
G: pendant pole type



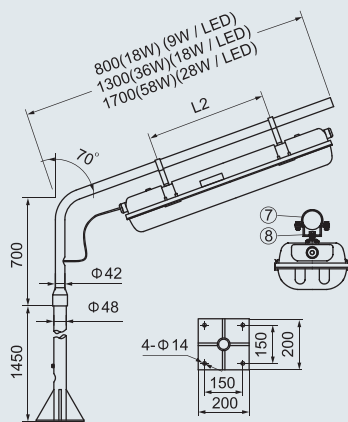
X: ceiling type



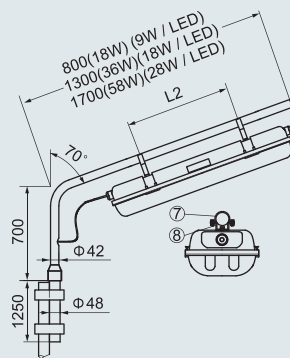
B: wall type



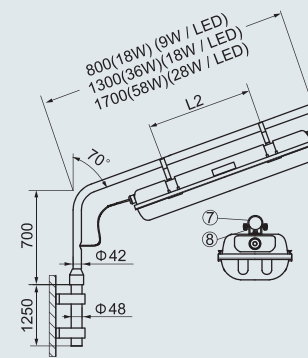
L: pole type (the pole is provided by user)



Suitable for ground pole type



Suitable for fence pole type



Suitable for wall pole type



Mounting accessories and spare parts table

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
D: pendant chain type	①.Sucker	2	See P2/8	5136017	0.15
	②.Chain	2	Length: 450mm	5136016	0.08
G: pendant pole type	③.Mounting bracket	2	See P2/8	51S01G1	0.04
	④.M8 Screw	2	Length: 350mm	51S01G2	0.12
X: ceiling type	⑤.Mounting bracket	2	See P2/9	5136030	0.07
B: wall type	⑥.Wall bracket	2	Welded sheet steel	5236B02	0.25
L: pole type	⑦.G1 1/4" Pipe clamp	2	See P2/9	5136014	0.04
	⑧.Mounting bracket	2	See P2/9	5136012	0.04

Note: Accessories not in the table shall be supplied by user.

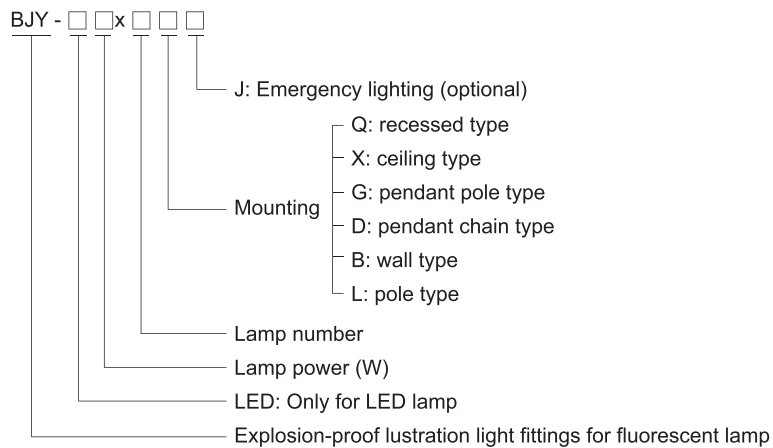
Light Fittings for Fluorescent Lamp

BJY Series Explosion-proof Lustration Light Fittings for Fluorescent Lamp



- ◆ 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 2, Groups A, B, C, D
- ◆ Two protection type: "Ex e q" and "Ex nA"; Two enclosure types for "Ex e q", six enclosure types for "Ex nA".
- ◆ No "Ex e q" protection for LED light fittings
- ◆ Toughened glass transparent cover, high light transmittance, resistance to high energy impact and thermal fusion.
- ◆ Enclosure is formed of stainless steel.
- ◆ Built-in electronic ballast, power factor ≥ 0.95 .
- ◆ LED driver, wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.95 .
- ◆ End of lamp life (EOL) rectification effect protection.
- ◆ Emergency functions is available on request.

Catalogue number logic



Zones 1&2; 21&22

Light Fittings for Fluorescent Lamp

BJY Series Explosion-proof Lustration Light Fittings for Fluorescent Lamp

Technical data											
Explosion-proof lustration light fittings for fluorescent lamp BJY-□□ × □□□											
Explosion protection	Ⓔ II 3 G Ex nA IIC T4 Gc Ⓔ II 2 G Ex e q IIC T4 Gb Ⓔ II 2 D Ex tb IIIC T80°C Db IP66 LCIE 15 ATEX____; IECEX; PCEC (China) EN 60079-0:2012, EN 60079-5:2007, EN 60079-7:2007, EN 60079-15:2010, EN 60079-31:2009 IEC 60079-0:2011, IEC 60079-5:2007, IEC 60079-7:2006, IEC 60079-15:2010, IEC 60079-31:2008										
Certificates											
Conformity to standards											
Material	Stainless steel Toughened glass, stands 4J impact Electronic ballast, power factor ≥ 0.95 Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.95 Stainless steel										
Enclosure											
Glass cover											
Ballast											
LED driver											
Exposed fastener											
Lamp											
Available lamp and power (the lamp tube is supplied with light fittings)	<table border="1"> <thead> <tr> <th>Lamp</th><th>"Ex e q" type</th><th>"Ex nA" type</th></tr> </thead> <tbody> <tr> <td>T8 fluorescent lamp</td><td>18W×1, 36W×1 18W×2, 36W×2</td><td>18W×1, 36W×1, 58W×1 18W×2, 36W×2, 58W×2</td></tr> <tr> <td>LED lamp</td><td>—</td><td>9W×1, 18W×1, 28W×1 9W×2, 18W×2, 28W×2</td></tr> </tbody> </table>		Lamp	"Ex e q" type	"Ex nA" type	T8 fluorescent lamp	18W×1, 36W×1 18W×2, 36W×2	18W×1, 36W×1, 58W×1 18W×2, 36W×2, 58W×2	LED lamp	—	9W×1, 18W×1, 28W×1 9W×2, 18W×2, 28W×2
Lamp	"Ex e q" type	"Ex nA" type									
T8 fluorescent lamp	18W×1, 36W×1 18W×2, 36W×2	18W×1, 36W×1, 58W×1 18W×2, 36W×2, 58W×2									
LED lamp	—	9W×1, 18W×1, 28W×1 9W×2, 18W×2, 28W×2									
Colour Temperature (CCT)	Cool white: 5400~6500K Note: cool white is available in general. Warm white (2700~3500K) or nature white (4700~5400K) is optional, please specify when ordering.										
Rated voltage	"Ex e q" type "Ex nA" type 96-254V AC 50/60Hz T8: 100~300V AC 50/60Hz; LED: 110~265V AC 50/60Hz										
Degree of protection	IP66										
Ambient temperature	-40°C~+55°C										
Terminal	3 x 1.5~4mm ² (L+N+PE)										
Cable entries	2 x Φ21: 2 x M20 x 1.5 cable glands (DQM-I Ex e, plastic)										
Available cable outer diameter	Φ6~Φ12 (mm)										
Emergency data											
Emergency unit	Special emergency controller and Ni-MH battery pile, with protection against over-charge and overdischarge										
Emergency power (W)	T8: 18W x 1, 36W x 1, 58W x 1; LED: 9W x 1, 18W x 1, 28W x 1										
Emergency starting time	0.3s										
Charging time	24h										
Emergency lighting time	120min (180min is optional)										



Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5400 to 6500K (cool white).

BJY-□□ × 1□□ Rated luminous flux T8: 18W×1: 1300lm T8: 36W×1: 3250lm T8: 58W×1: 5000lm LED: 9W×1: 945lm LED: 18W×1: 1890lm LED: 28W×1: 2940lm	BJY-□□ × 2□□ Rated luminous flux T8: 18W×2: 2600lm T8: 36W×2: 6500lm T8: 58W×2: 10000lm LED: 9W×2: 1890lm LED: 18W×2: 3780lm LED: 28W×2: 5880lm

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

Light Fittings for Fluorescent Lamp

BJY Series Explosion-proof Lustration Light Fittings for Fluorescent Lamp

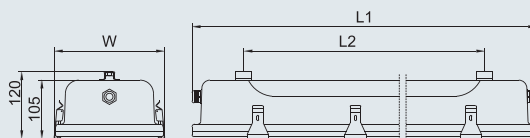
Selection table

Type / Ordering code	Lamp power(W)	Weight(kg)		Type / Ordering code	Lamp power(W)	Weight(kg)		Type / Ordering code	Lamp power(W)	Weight(kg)	
		"Ex e q" type	"Ex nA" type			"Ex e q" type	"Ex nA" type			"Ex e q" type	"Ex nA" type
BJY-18 x 1X	18×1	5.30	3.25	BJY-36 x 1X	36×1	8.60	5.70	BJY-58 x 1X	58×1	-	6.95
BJY-18 x 1G	18×1	5.50	3.45	BJY-36 x 1G	36×1	8.75	5.85	BJY-58 x 1G	58×1	-	7.15
BJY-18 x 1D	18×1	5.60	3.60	BJY-36 x 1D	36×1	8.90	6.00	BJY-58 x 1D	58×1	-	7.30
BJY-18 x 1B	18×1	5.65	3.60	BJY-36 x 1B	36×1	8.95	6.05	BJY-58 x 1B	58×1	-	7.35
BJY-18 x 1L	18×1	5.30	3.30	BJY-36 x 1L	36×1	9.65	5.70	BJY-58 x 1L	58×1	-	6.95
BJY-18 x 1Q	18×1	5.30	3.25	BJY-36 x 1Q	36×1	8.60	5.70	BJY-58 x 1Q	58×1	-	6.95
BJY-18 x 2X	18×2	5.40	4.40	BJY-36 x 2X	36×2	8.75	7.55	BJY-58 x 2X	58×2	-	9.15
BJY-18 x 2G	18×2	5.60	4.60	BJY-36 x 2G	36×2	8.90	7.70	BJY-58 x 2G	58×2	-	9.35
BJY-18 x 2D	18×2	5.70	4.70	BJY-36 x 2D	36×2	9.05	7.85	BJY-58 x 2D	58×2	-	9.50
BJY-18 x 2B	18×2	5.75	4.75	BJY-36 x 2B	36×2	9.10	7.90	BJY-58 x 2B	58×2	-	9.50
BJY-18 x 2L	18×2	5.40	4.40	BJY-36 x 2L	36×2	8.80	7.60	BJY-58 x 2L	58×2	-	9.20
BJY-18 x 2Q	18×2	5.40	4.40	BJY-36 x 2Q	36×2	8.75	7.55	BJY-58 x 2Q	58×2	-	9.15
BJY-LED 9 x 1X	9×1	-	3.15	BJY-LED 18 x 1X	18×1	-	5.60	BJY-LED 28 x 1X	28×1	-	6.85
BJY-LED 9 x 1G	9×1	-	3.35	BJY-LED 18 x 1G	18×1	-	5.75	BJY-LED 28 x 1G	28×1	-	7.05
BJY-LED 9 x 1D	9×1	-	3.50	BJY-LED 18 x 1D	18×1	-	5.90	BJY-LED 28 x 1D	28×1	-	7.20
BJY-LED 9 x 1B	9×1	-	3.50	BJY-LED 18 x 1B	18×1	-	5.95	BJY-LED 28 x 1B	28×1	-	7.25
BJY-LED 9 x 1L	9×1	-	3.20	BJY-LED 18 x 1L	18×1	-	5.60	BJY-LED 28 x 1L	28×1	-	6.90
BJY-LED 9 x 1Q	9×1	-	3.15	BJY-LED 18 x 1Q	18×1	-	5.60	BJY-LED 28 x 1Q	28×1	-	6.85
BJY-LED 9 x 2X	9×2	-	4.30	BJY-LED 18 x 2X	18×2	-	7.45	BJY-LED 28 x 2X	28×2	-	9.05
BJY-LED 9 x 2G	9×2	-	4.45	BJY-LED 18 x 2G	18×2	-	7.65	BJY-LED 28 x 2G	28×2	-	9.25
BJY-LED 9 x 2D	9×2	-	4.60	BJY-LED 18 x 2D	18×2	-	7.76	BJY-LED 28 x 2D	28×2	-	9.40
BJY-LED 9 x 2B	9×2	-	4.65	BJY-LED 18 x 2B	18×2	-	7.80	BJY-LED 28 x 2B	28×2	-	9.40
BJY-LED 9 x 2L	9×2	-	4.30	BJY-LED 18 x 2L	18×2	-	7.50	BJY-LED 28 x 2L	28×2	-	9.05
BJY-LED 9 x 2Q	9×2	-	4.40	BJY-LED 18 x 2Q	18×2	-	7.45	BJY-LED 28 x 2Q	28×2	-	9.05

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/39).

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

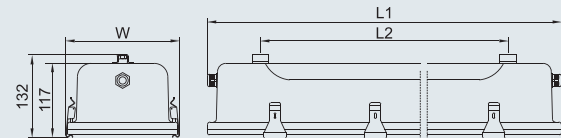
"Ex nA" type



BJY-□x1□, BGY-LED□x1□
BJY-□x2□, BGY-LED□x2□

Type / Ordering code	L1	L2	W
BJY-18x1□, BGY-LED 9x1□	726	482	140
BJY-18x2□, BGY-LED 9x2□	726	482	200
BJY-36x1□, BGY-LED 18x1□	1326	1097	140
BJY-36x2□, BGY-LED 18x2□	1326	1097	200
BJY-58x1□, BGY-LED 28x1□	1626	1397	140
BJY-58x2□, BGY-LED 28x2□	1626	1397	200

"Ex e q" type



BJY-□x1□
BJY-□x2□

Type / Ordering code	L1	L2	W
BJY-18x1□, BGY-18x2□	726	482	200
BJY-36x1□, BGY-36x2□	1326	1097	200

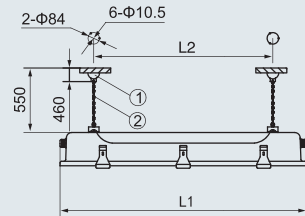
Light Fittings for Fluorescent Lamp

BJY Series Explosion-proof Lustration Light Fittings for Fluorescent Lamp

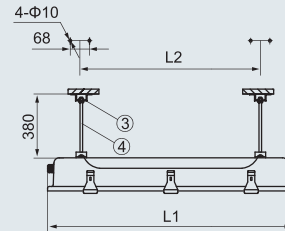
Mounting type (all dimensions in mm) - subject to alteration

Installation reference

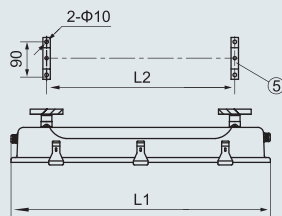
D: pendant chain type



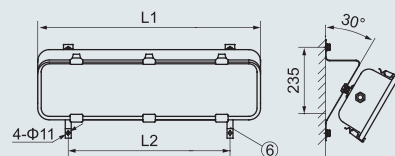
G: pendant pole type



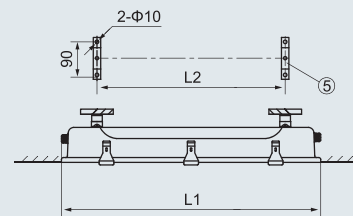
X: ceiling type



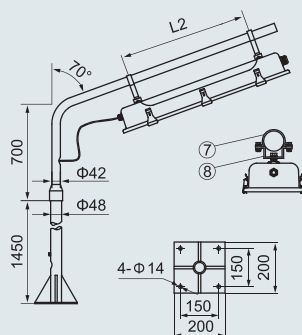
B: wall type



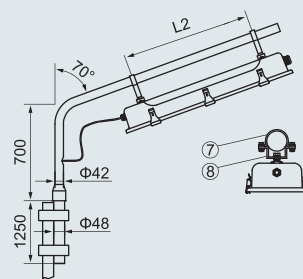
Q: recessed type



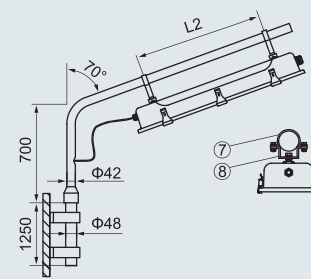
L: pole type (the pole is provided by user)



Suitable for ground pole type



Suitable for fence pole type



Suitable for wall pole type



Mounting accessories and spare parts table

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
D: pendant chain type	①.Sucker	2	See P2/8	5136017	0.15
	②.Chain	2	Length: 450mm	5136016	0.08
G: pendant pole type	③.Mounting bracket	2	See P2/8	51S01G1	0.04
	④.M8 Screw	2	Length: 350mm	51S01G2	0.12
X: ceiling type	⑤.Mounting bracket	2	See P2/9	5136030	0.07
B: wall type	⑥.Wall bracket	2	Welded sheet steel	5236B02	0.25
Q:recessed type	⑤.Mounting bracket	2	See P2/9	5136030	0.07
L: pole type	⑦.G1 1/4" Pipe clamp	2	See P2/9	5136014	0.04
	⑧.Mounting bracket	2	See P2/9	5136012	0.04

Note: Accessories not in the table shall be supplied by user.

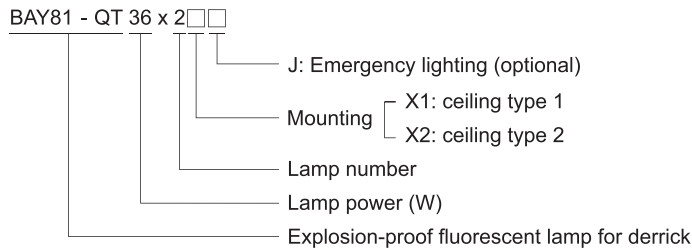
Light Fittings for Fluorescent Lamp

BAY81-QT Series Explosion-proof Fluorescent Lamp for Derrick



- ◆ 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 2, Groups A, B, C, D
- ◆ Polycarbonate diffuser, high transmittance, resistance to heavy impact.
- ◆ Main enclosure is extruding formed of copper-free aluminium, anodic-oxidation treatment for surface. Both ends of enclosures are die-casting formed of copper-free aluminium, powder coated surface.
- ◆ Built-in electronic ballast, power factor ≥ 0.95 .
- ◆ Special-made mounting bracket, the illumination angle can be adjusted on request.
- ◆ Emergency function is available on request.
- ◆ End of lamp life (EOL) rectification effect protection

Catalogue number logic



Selection table

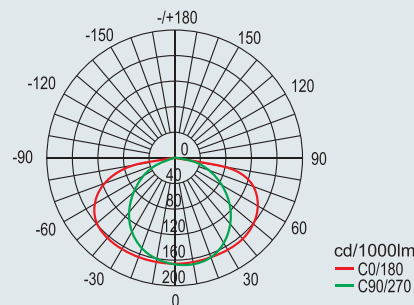
Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
BAY81-QT36 x 2 □	36 x 2	7.50	BAY81-QT36 x 2 □ J	36 x 2	9.25

Note: Emergency lighting function is unavailable for routine products, please specify if needed.

Photometric data

BAY81-QT 36W x 2

Rated luminous flux : 5000lm



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

Zones 1&2; 21&22

Light Fittings for Fluorescent Lamp

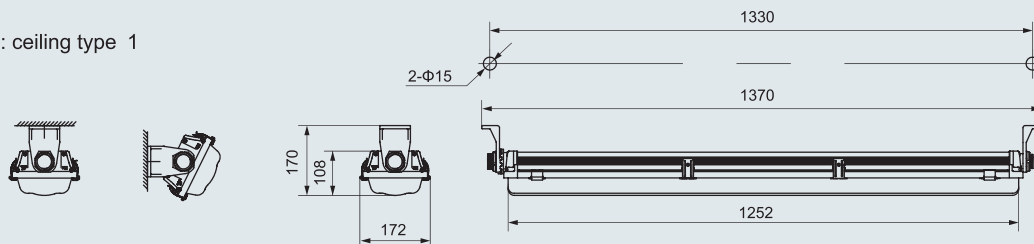
BAY81-QT Series Explosion-proof Fluorescent Lamp for Derrick

Technical data	
Explosion-proof fluorescent lamp for derrick BAY81-QT36x2□□	
Explosion protection	
Gas explosion protection	Ex II 2 G Ex d e q IIC T4 Gb
Dust explosion protection	Ex II 2 D Ex tb IIIC T80°C Db IP66
Certificates	LCIE 15 ATEX ____; IECEX; PCEC (China)
Conformity to standards	EN 60079-0:2012, EN 60079-1:2007, EN 60079-5:2007, EN 60079-7:2007 EN 60079-31:2009 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-5:2007, IEC 60079-7:2006 IEC 60079-31:2008
Material	
Main enclosure	Copper-free aluminium, anodic-oxidation treatment for surface.
Both ends of enclosure	Copper-free aluminium, powder coated surface
Diffuser	Polycarbonate, 90% light transmission, stands 7J impact
Ballast	Electronic ballast, power factor ≥ 0.95
Exposed fastener	Stainless steel
Lamp	
Lamp specification	International brand of T8 tube (supplied with light fittings)
Lamp power (W)	36W x 2
Emergency power (W)	36W x 1
Rated voltage	96~254V AC 50/60Hz
Degree of protection	IP66
Ambient temperature	-40°C~+60°C
Terminal	3 x 1.5~4mm ² (L+N+PE)
Cable entries	1 x G3/4"
Cable gland	Supplied with seal gasket and gland nut; Cable gland on request.
Available cable outer diameter	Φ 10~Φ 14 (mm)
Emergency data	
Emergency starting time	0.3s
Charging time	24h
Emergency lighting time	120min (180min is optional)

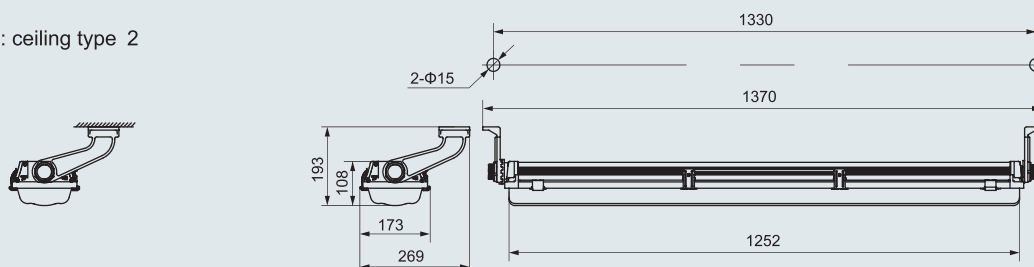


Mounting type (all dimensions in mm) - subject to alteration

X1: ceiling type 1



X2: ceiling type 2



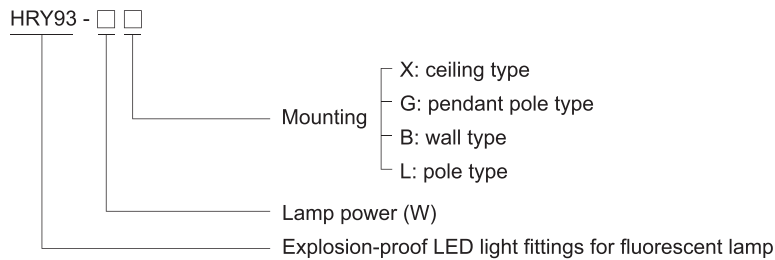
Light Fittings for Fluorescent Lamp

HRY93 Series Explosion-proof LED Light Fittings for Fluorescent Lamp



- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ Two enclosure types.
- ◆ Applicable lamp power: 20W, 40W
- ◆ Built-in LED driver, CC-CV (constant current-constant voltage) output, power factor ≥ 0.95 .
- ◆ Main enclosure is extruding formed of copper-free aluminium, anodic-oxidation treatment for surface. Both ends of enclosure are die-casting formed of copper-free aluminium, powder coated surface.

Catalogue number logic



Zones 2; 21&22

Light Fittings for Fluorescent Lamp

HRY93 Series Explosion-proof LED Light Fittings for Fluorescent Lamp

Technical data	
Explosion-proof LED light fittings for fluorescent lamp HRY93-□ □	
Explosion protection	
Gas explosion protection	Ex II 3 G Ex nR IIC T6 Gc
Dust explosion protection	Ex II 2 D Ex tb IIIC T80°C Db IP66
Certificates	LCIE 15 ATEX ____; IECEx
Conformity to standards	EN 60079-0: 2012, EN 60079-15: 2010, EN 60079-31: 2009 IEC 60079-0: 2011, IEC 60079-15: 2010, IEC 60079-31: 2008
Material	
Main enclosure	Copper-free aluminium, anodic-oxidation treatment for surface
Both ends of enclosure	Copper-free aluminium, powder coated surface, yellow (RAL1021)
Diffuser	Polycarbonate, corrosion-proof
Exposed fastener	Stainless steel
LED driver	CC-CV (constant current - constant voltage) LED power source, rapid starting, stable performance, power factor ≥ 0.95
Lamp	
Lamp specification	International brand of LED module (supplied with the light fittings)
Lamp power (W)	20W, 40W
Colour Temperature (CCT)	Cool white: 5400~6500K Note: cool white is available in general. Warm white (2700~3500K) or nature white (4700~5400K) is optional, please specify when ordering.
Rated voltage	220~240V AC 50/60Hz
Degree of protection	IP66, IP67(optional)
Ambient temperature	-20°C~+55°C
Terminal	3 x 1.5~2.5mm ² (L+N+PE)
Mounting	Ceiling type, pendant pole type, wall type, pole type
Cable entries	1 x G3/4" cable gland (DQM-I Ex e, plastic)
Available cable outer diameter	Φ10~Φ14(mm)



Selection table					
Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
HRY93-20 X	20	2.20	HRY93-40 X	40	3.40
HRY93-20 G	20	3.50	HRY93-40 G	40	4.70
HRY93-20 B	20	3.00	HRY93-40 B	40	4.20
HRY93-20 L	20	2.10	HRY93-40 L	40	3.30

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/44~45).

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

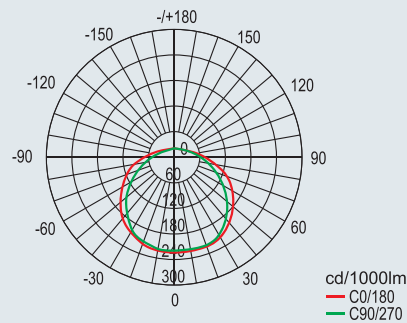
Light Fittings for Fluorescent Lamp

HRY93 Series Explosion-proof LED Light Fittings for Fluorescent Lamp

Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5400 to 6500K (cool white).

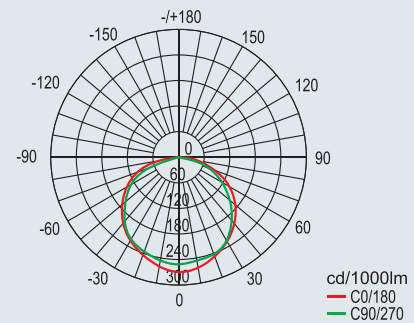
HRY93-20

Rated luminous flux
20W LED: 2000lm



HRY93-40

Rated luminous flux
40W LED: 4000lm

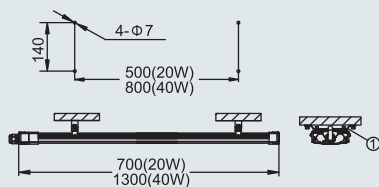


We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

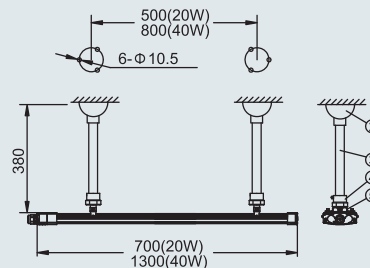
Mounting type (all dimensions in mm) - subject to alteration

Installation reference

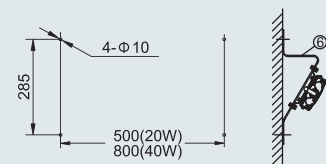
X: ceiling type



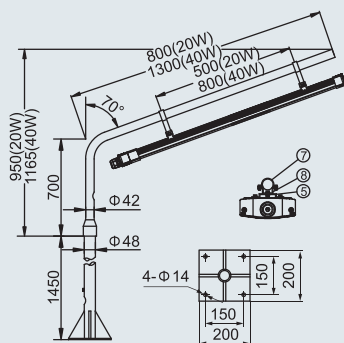
G: pendant pole type



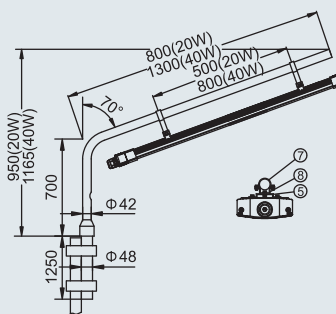
B: wall type



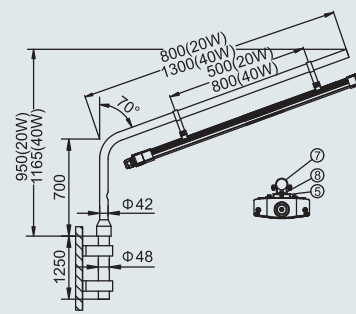
L: pole type (the pole is provided by user)



Suitable for ground pole type



Suitable for fence pole type



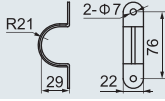
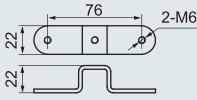
Suitable for wall pole type

Light Fittings for Fluorescent Lamp

HRY93 Series Explosion-proof LED Light Fittings for Fluorescent Lamp

Mounting accessories and spare parts table

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
X: ceiling type	① Mounting bracket	2	Q235	85Y01	0.07
G: pendant pole type	② Sucker	2	See P2/8	5136017	0.15
	③ Straight pipe G3/4"	2	Length: 300mm	85Y02	0.41
	④ Coupling	2	Q235	85Y02	0.12
	⑤ Mounting bracket	2	Q235	85Y03	0.07
B: wall type	⑥ Wall bracket	2	Q235	85Y04	0.60
L: pole type	⑦ G1 1/4" Pipe clamp	2		5136014	0.04
	⑧ Mounting bracket	2		5136012	0.04
	⑤ Mounting bracket	2	Same as pendant pole type	85Y03	0.07

Note: Accessories not in the table shall be supplied by user.