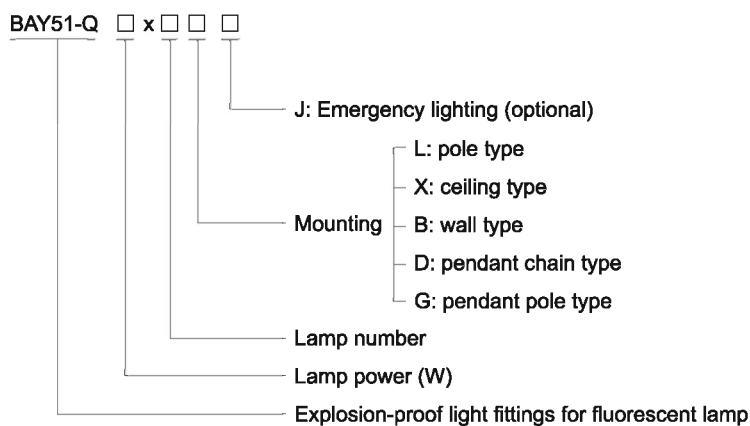




Light Fittings for Fluorescent Lamp BAY51-Q Series Explosion-proof Light Fittings for Fluorescent Lamp

- ◆ 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: 18W, 36W.
- ◆ Enclosure in glass fibre reinforced polyester, diffuser in polycarbonate, corrosion-proof.
- ◆ Ex e enclosure with explosion-proof components inside.
- ◆ Safety interlock between enclosure and diffuser switches off on opening.
- ◆ Electronic ballast, power factor ≥ 0.95 .
- ◆ Emergency unit with protections against over charge 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

2

Technical data

Explosion-proof light fittings for fluorescent lamp BAY51-Q □ x □□

Explosion protection

Gas explosion protection

Dust explosion protection

Certificates

Conformity to standards

Material

Enclosure

Diffuser

Ballast

Exposed fastener

Interlock

Lamp

Lamp brand

Lamp power (W)

Rated voltage

Protection class

Degree of protection

Ambient temperature

Terminal

Cable entries

Available cable outer diameter

Ex II 2 G Ex deq IIC T4 Gb

Ex II 2 D Ex t IIIC T80°C Db IP66

LCIE 12 ATEX 3045X; IECEX CQM 07.0007

BR229577 (Brazil); S-XPL/04547 (South Africa); FM (USA); GOST.R (Russia)

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

GRP, stands 7J impact, corrosion-proof

Polycarbonate, 90% light transmission, stands 7J impact

Explosion-proof 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).

Stainless steel

BZX-6 explosion-proof distance switch, switching off on opening.

Certificate No.: LCIE 06 ATEX 0002U, IECEX CQM 07.0006U

PHILIPS T8 (supplied with the light fittings)

36W x 2 18W x 2

36W x 1 18W x 1

96~254V AC 50/60Hz

II (Protection against electric shock)

IP66

-20°C~+55°C

3 x 1.5~4mm² (L+N+PE)

4 x $\Phi 26$: 2 x M25 x 1.5 cable gland (DQM-I Ex e, plastic), 2 x M25 x 1.5 plug.

$\Phi 9 \sim \Phi 16$ (mm)

Selection table

Type/Ordering code	Lamp power(W)	Weight(kg)	Type/Ordering code	Lamp power(W)	Weight(kg)
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
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

Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/6~7).



Technical data

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

Explosion protection					
Gas explosion protection	Ex II 2 G Ex deq IIC T4 Gb				
Dust explosion protection	Ex II 2 D Ex tb IIIC T80°C Db IP66				
Certificates	LCIE 10 ATEX 3009; IECEX CQM 12.0002X; BVC 10.0203 (Brazil); FM (USA) GOST.R (Russia)				
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: 2011, 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				
Emergency unit	Special emergency controller and NI-MH battery pile, with protection against over charge and over discharge				
Emergency controller	BY-2 explosion-proof emergency controller. Certificate No.: LCIE 10 ATEX 3010U, IECEX CQM 11.0041U				
Exposed fastener	Stainless steel				
Lamp					
Lamp brand	PHILIPS T8 (supplied with the light fittings)				
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 start time	0.3s				
Charge 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				
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 gland (DQM-I Ex e, plastic), 2 x M25 x 1.5 plug.				
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-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
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

Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/6~7).

Light Fittings for Fluorescent Lamp

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

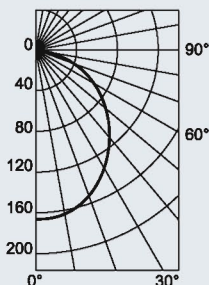
Photometric data

18W x 2 photometric data

Rated luminous flux: 2100lm;

The data from PHILIPS lamp;

Luminous intensity distribution cd/1000lm



Angle	CP	Angle	CP
0	349	50	193
5	348	55	162
10	345	60	130
15	335	65	98
20	324	70	66
25	309	75	38
30	292	80	18
35	272	85	0
40	248	90	0
45	222		

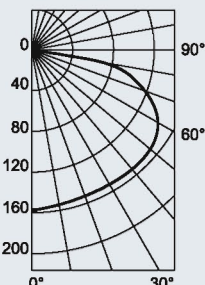
18W x 1 fluorescent lamp*0.5

36W x 2 photometric data

Rated luminous flux: 5000lm;

The data from PHILIPS lamp;

Luminous intensity distribution cd/1000lm

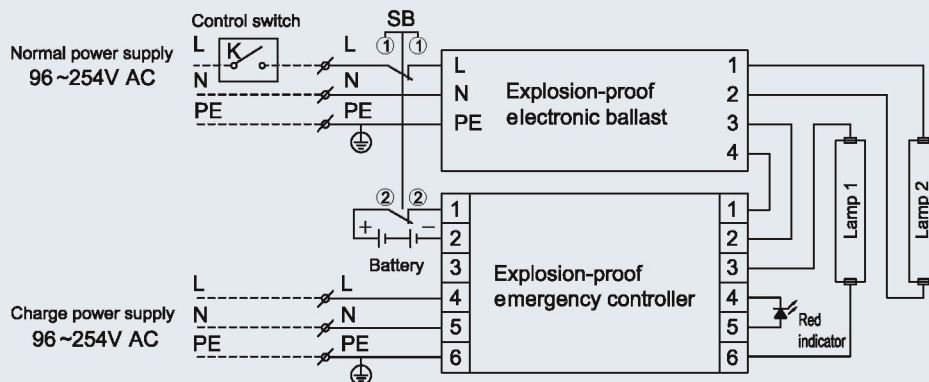


Angle	CP	Angle	CP
0	783	50	758
5	780	55	731
10	779	60	702
15	776	65	660
20	775	70	610
25	775	75	522
30	777	80	365
35	776	85	0
40	772	90	0
45	765		

36W x 1 fluorescent lamp*0.5

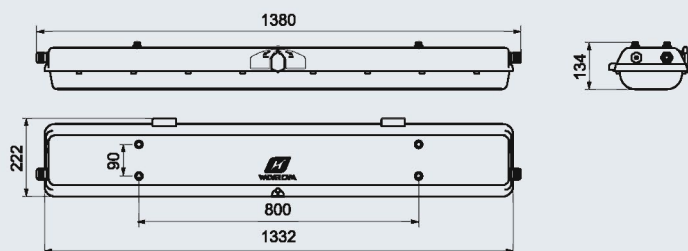
We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

Schematic diagram (BAY51-Q□x□□J)

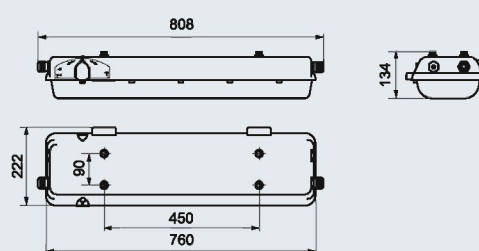


Note: Tube for lamp 2 shall be default for single tube fittings.

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



BAY51-Q36 x □□□



BAY51-Q18 x □□□



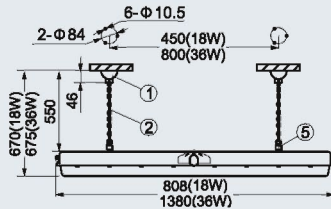
Light Fittings for Fluorescent Lamp

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

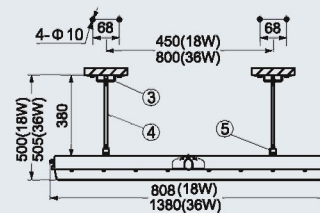
Mounting type (all dimensions in mm) - subject to alteration

Installation reference

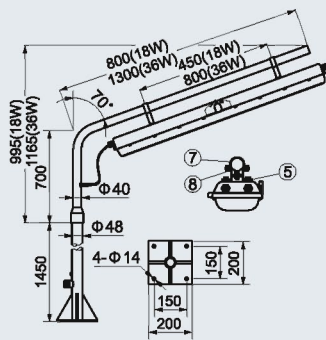
D: pendant chain type



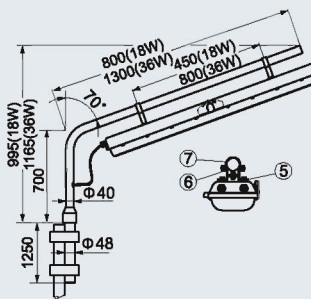
G: pendant pole type



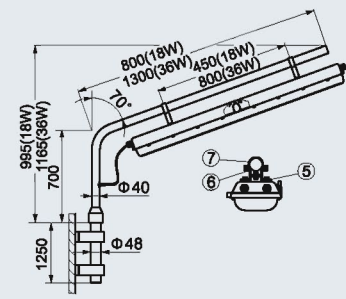
L: pole type (the pole is provided by user)



Suitable for ground pole type

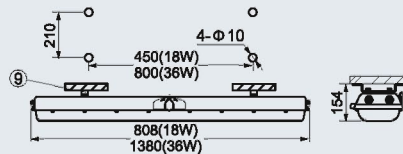


Suitable for fence pole type

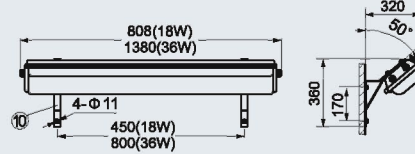


Suitable for wall pole type

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

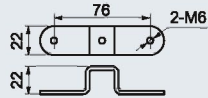
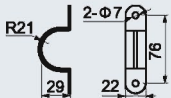
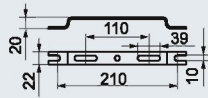
Note: Accessories not in the table shall be supplied by user.

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

2

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	⑨.Mounting bracket	2		5136015	0.20
B: wall type	⑩.Wall bracket	2	Welded sheet steel	5136B02	0.62

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

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
	36W Explosion-proof electronic ballast	5136011	1.30
	18W Explosion-proof electronic ballast	5118004	1.30
	36W Explosion-proof emergency controller (with battery)	5136019	1.70
	18W Explosion-proof emergency controller (with battery)	5118005	1.70

