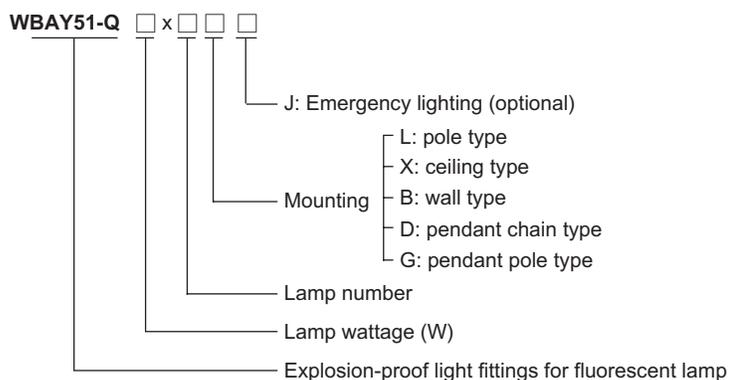




Light Fittings for Fluorescent Lamp WBAY51-Q Series Explosion-proof Light Fittings for Fluorescent Lamp

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Two enclosure types: 18W, 36W.
- ◆ Enclosure in glass fiber 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

WBAY51-Q Series Explosion-proof Light Fittings for Fluorescent Lamp

2

Technical data					
Explosion-proof light fittings for fluorescent lamp WBAY51-Q □ x □□					
Explosion protection	⊕ II 2 G Ex deq IIC T4				
Gas explosion protection	Ex tD A21 T80°C IP66				
Dust explosion protection					
Certificates					
For gas explosion protection	LCIE 06 ATEX 6035X; IECEx CQM 07.0007; BR229577 (Brazil) S-XPL/04547 (South Africa); FM (USA); GOST.R (Russia)				
For dust explosion protection	PCEC				
Conformity to standards	EN 60079-0:2004, EN 60079-1:2004, EN 60079-5:2007, EN 60079-7:2003 IEC 60079-0: 2004, IEC 60079-1:2003, IEC 60079-5:2007, IEC 60079-7:2001 IEC 61241-0:2004, IEC 61241-1:2004				
Material					
Enclosure	GRP, stands 7J impact, corrosion-proof				
Diffuser	Polycarbonate, 90% light transmission, stands 7J impact				
Ballast	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).				
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 brand	PHILIPS T8 (supplied with the light fittings)				
Lamp wattage (W)	<table border="1" style="display: inline-table; border-collapse: collapse;"> <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				
Ambient temperature	-20°C ~ +55°C				
Terminal	3 x 1.5~4mm ² (L+N+PE)				
Cable entries	4 x Ø26: 2 x M25 x 1.5 cable gland (DQM-I Ex e, plastic), 2 x M25 x 1.5 plug.				
Available cable outer diameter	Ø9~Ø16 (mm)				

Selection table					
Type/Ordering code	Lamp wattage(W)	Weight(kg)	Type/Ordering code	Lamp wattage(W)	Weight(kg)
WBAY51-Q36 x 1L	36 x 1	11.40	WBAY51-Q36 x 2L	36 x 2	11.60
WBAY51-Q36 x 1X	36 x 1	11.30	WBAY51-Q36 x 2X	36 x 2	11.40
WBAY51-Q36 x 1B	36 x 1	12.30	WBAY51-Q36 x 2B	36 x 2	12.50
WBAY51-Q36 x 1D	36 x 1	12.60	WBAY51-Q36 x 2D	36 x 2	12.75
WBAY51-Q36 x 1G	36 x 1	12.20	WBAY51-Q36 x 2G	36 x 2	12.40
WBAY51-Q18 x 1L	18 x 1	6.80	WBAY51-Q18 x 2L	18 x 2	7.00
WBAY51-Q18 x 1X	18 x 1	6.70	WBAY51-Q18 x 2X	18 x 2	6.90
WBAY51-Q18 x 1B	18 x 1	7.80	WBAY51-Q18 x 2B	18 x 2	7.90
WBAY51-Q18 x 1D	18 x 1	8.10	WBAY51-Q18 x 2D	18 x 2	8.20
WBAY51-Q18 x 1G	18 x 1	7.70	WBAY51-Q18 x 2G	18 x 2	7.85

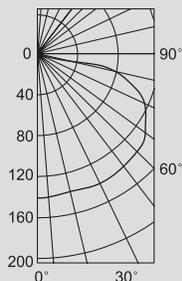
Note: Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/10~11).

Light Fittings for Fluorescent Lamp WBAY51-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



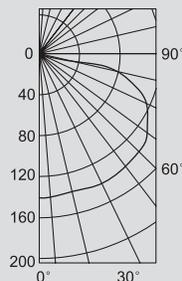
Angle	CP
0	333
5	332
10	328
15	320
20	310
25	295
30	278
35	259
40	236
45	211

Angle	CP
50	184
55	155
60	124
65	93
70	63
75	37
80	17
85	0
90	0

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



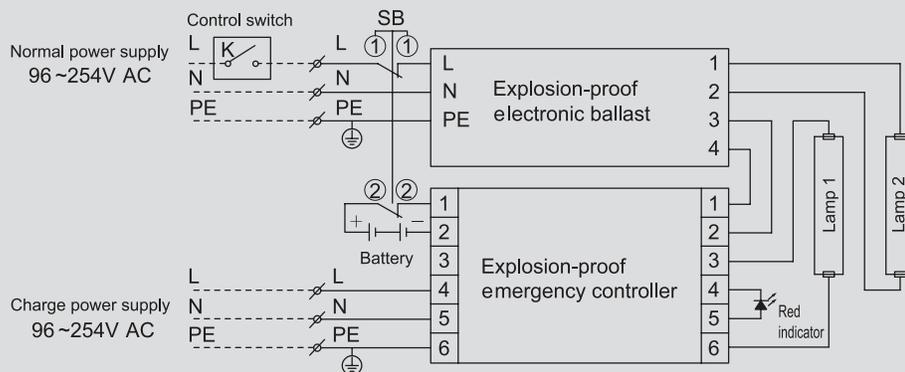
Angle	CP
0	705
5	703
10	702
15	699
20	697
25	697
30	700
35	699
40	695
45	688

Angle	CP
50	682
55	658
60	433
65	594
70	549
75	469
80	328
85	0
90	0

36W x 1 fluorescent lamp*0.5

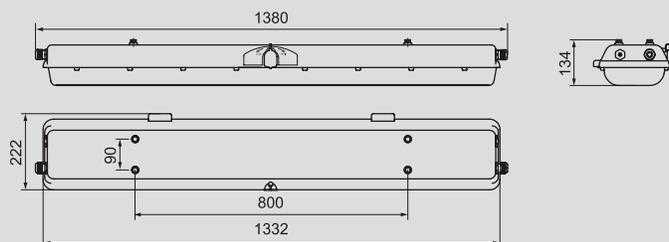
We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

Schematic diagram (WBAY51Q □ x □ □ J)

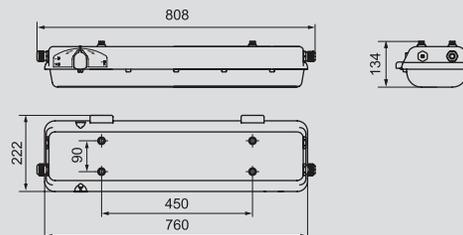


Note: Tube for lamp 2 shall be default for single tube fittings.

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



WBAY51-Q36 x □ □ □



WBAY51-Q18 x □ □ □