◆ 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
◆ 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.
◆ Emergency unit with protections against overcharge and over-
   discharge.
◆ End of lamp life (EOL) rectification effect protection.

■ Catalogue number logic

BAY51-Q ☐ x ☐ ☐ ☐

J: Emergency lighting (optional)

L: pole type
X: ceiling type
Mounting — B: wall type
D: pendant chain type
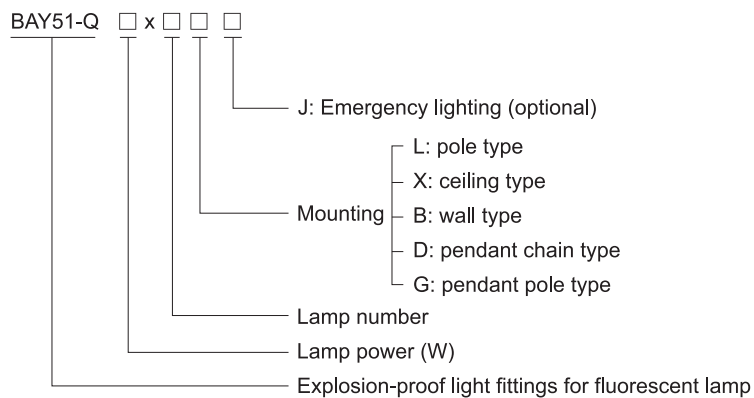G: pendant pole type

Lamp number
Lamp power (W)
Explosion-proof light fittings for fluorescent lamp

Zones 1&2; 21&22

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℃ Db IP66
Certificates	LCIE 12 ATEX 3045X; IECEx CQM 07.0007
	RU C-CN.ГБ05.В.00344 (CU-TR)
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-5, EN 60079-7, EN 60079-31
	IEC 60079-0, IEC 60079-1, IEC 60079-5, IEC 60079-7, IEC 60079-31
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
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	T8 tube (supplied with the light fittings)
Lamp power (W)	36W x 2 18W x 2
	36W x 1 18W x 1
Rated voltage	96~254V AC 50/60Hz
Degree of protection	IP66, IP67(optional)
Ambient temperature	-20℃~+55℃
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 P2/6~7).

Technical data

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

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℃ Db IP66
Certificates	TÜV CY 18 ATEX 0206027X; IECEx CQM 12.0002X; CU-TR
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-5, EN 60079-7, EN 60079-31
	IEC 60079-0, IEC 60079-1, IEC 60079-5, IEC 60079-7, IEC 60079-31
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.
Emergency controller	BY-2 emergency controller
	Certificate No.: LCIE 10 ATEX 3010U, IECEx CQM 11.0041U
Exposed fastener	Stainless steel
Lamp	
Lamp specification	T8 tube (supplied with the light fittings)
Lamp power (W)	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
Degree of protection	IP66, IP67(optional)
Ambient temperature	-20℃~+55℃
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 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 P2/6~7).
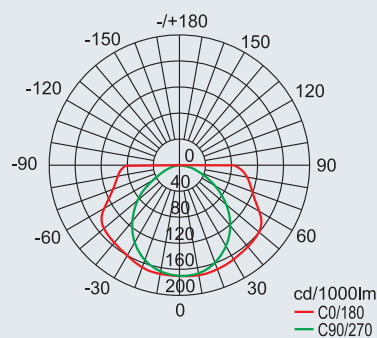
Photometric data

BAY51-Q18x1☐☐

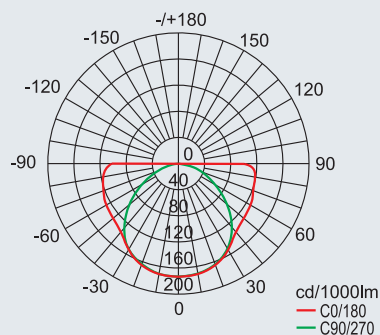Rated luminous flux
18Wx1: 1300lm
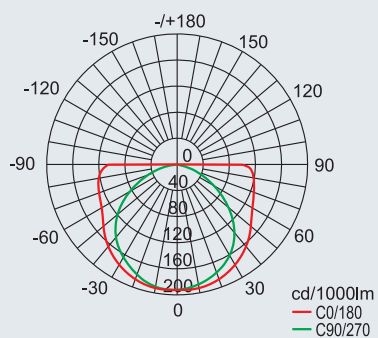
BAY51-Q18x2☐☐

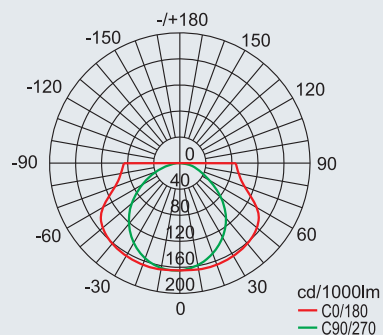Rated luminous flux
18Wx2: 2600lm

BAY51-Q36x1☐☐

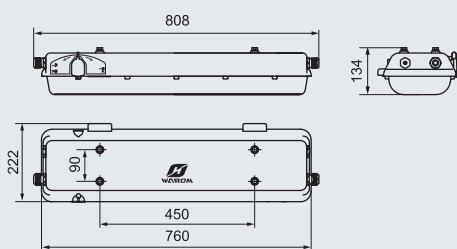Rated luminous flux
36Wx1: 3250lm

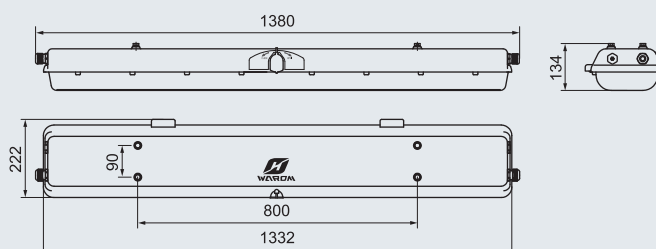### BAY51-Q36x2☐☐

Rated luminous flux
36Wx2: 6500lm

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

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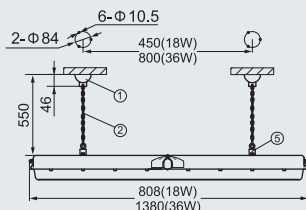

BAY51-Q18 x ☐ ☐ ☐

BAY51-Q36 x ☐ ☐ ☐

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

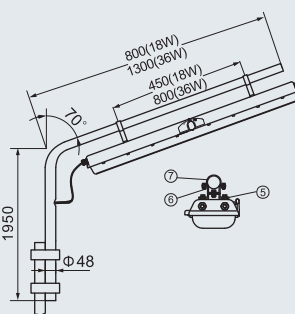### Installation reference

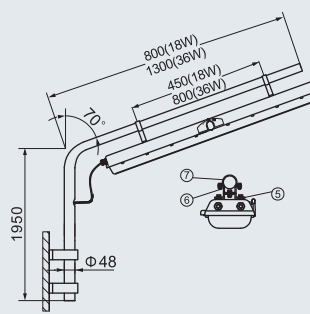**D: pendant chain type**

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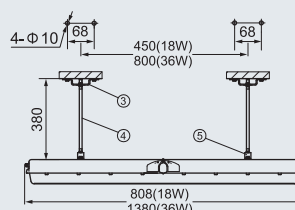
L: pole type (the pole is provided by user)
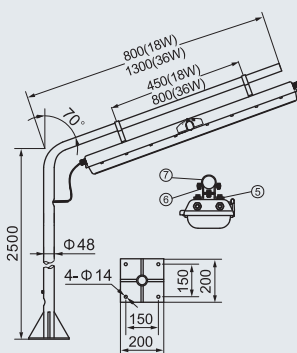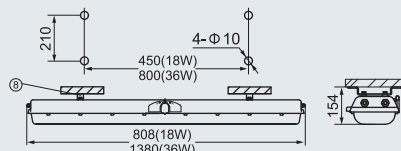

Suitable for ground pole type
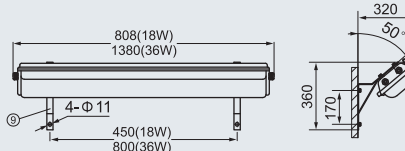

Suitable for fence pole type

Suitable for wall pole type

X: ceiling type

B: wall type

Mounting Accessories & 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	3-Φ10.5 Φ84	5136017	0.15
	②.Chain	2	Length: 450mm	5136016	0.08
	⑤.Mounting bracket	2	Stainless steel, same as pendant pole type	5136030	0.07
G: pendant pole type	③.Mounting bracket	2	68 Φ8.5 2-Φ10 36 Stainless steel	51S01G1	0.04
	④.M8 Screw	2	Stainless steel, length: 350mm	51S01G2	0.12
	⑤.Mounting bracket	2	90 Φ9 2-Φ10 20 Stainless steel	5136030	0.07
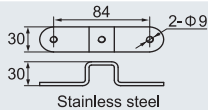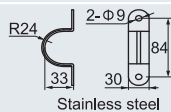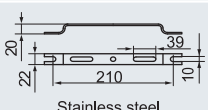
Note: Accessories not in the table shall be supplied by user.

## Mounting Accessories & Spare Parts Table

Supplied according to the mounting type

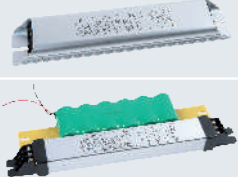| Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
L: pole type	⑥.Mounting bracket	2	84 / 2-Φ9 / 30 / 30 / Stainless steel	5136012	0.04
	⑦.G1 1/2″ Pipe clamp	2	R24 / 2-Φ9 / 84 / 33 / 30 / Stainless steel	5136014	0.04
	⑤.Mounting bracket	2	Stainless steel, same as pendant pole type	5136030	0.07
X: ceiling type	⑧.Mounting bracket	2	20 / 22 / 210 / 39 / 10 / Stainless steel	5136015	0.20
B: wall type	⑨.Wall bracket	2	Stainless steel, 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)
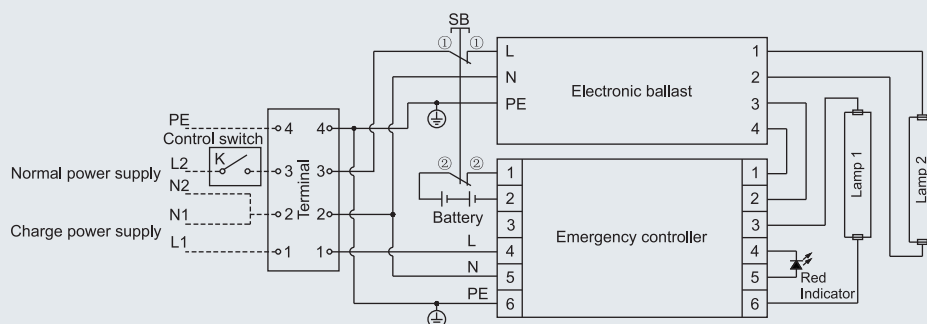
Note: Tube for lamp 2 shall be default for single tube fittings.

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 (T8/36W)	5136011	1.30
	YK18DF-2CS electronic ballast (T8/18W)	5118004	1.30
	BY-2 emergency controller (with battery) (T8/36W)	5136019	1.70
	BY-2 emergency controller (with battery) (T8/18W)	5118005	1.70