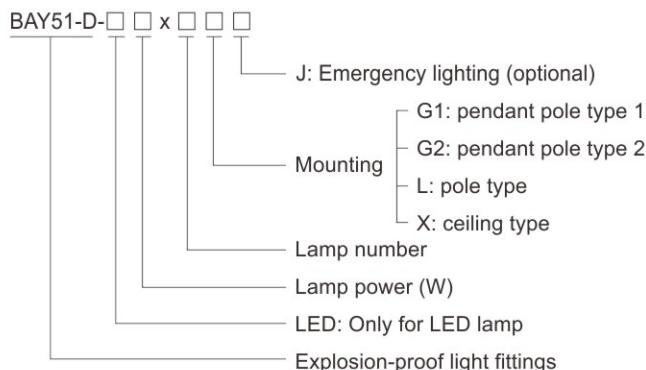


Light Fittings for Fluorescent Lamp BAY51-D Series Explosion-proof Light Fittings

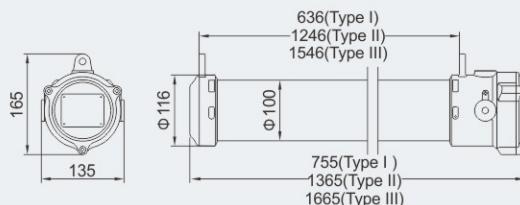


- ◆ Explosion Protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 1, Groups B, C, D
- ◆ Three enclosure types: Type I, Type II and Type III
 - Available lamp and power
 - Type I: T8 18W x 2, LED 9W x 2
 - Type II: T8 36W x 2, LED 18W x 2
 - Type III: T8 58W x 2, LED 28W x 2
 - The glass tube stands 4J impact.
 - Enclosure in Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021).
 - Built-in electronic ballast, wide voltage input, rapid starting, stable performance, power factor ≥ 0.95 .
 - Built-in 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 are available on request.

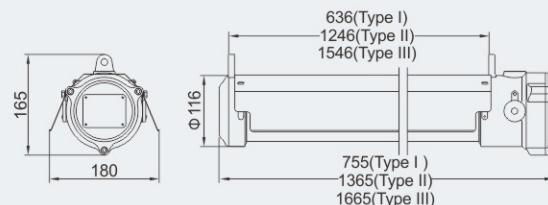
Catalogue number logic



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

Technical data

Explosion-proof light fittings BAY51-D-□ x □□□

Explosion protection	IECEx CQM 16.0023X Ex db IIB T6 Gb Ex db IIB+H ₂ T6 Gb Ex tb IIIC T80°C Db IP66 Ex II 2 G Ex db IIB T6 Gb Ex II 2 G Ex db IIB+H ₂ T6 Gb Ex II 2 D Ex tb IIIC T80°C Db IECEx; ATEX; CU-TR EN 60079-0, EN 60079-1, EN 60079-31, IEC 60079-0, IEC 60079-1, IEC 60079-31
Certificates	
Conformity to standards	
Material	Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021) Toughened glass, stands 4J impact Electronic ballast Special emergency controller and battery pack, with protection against overcharge and overdischarge Powder coated carbon steel (white) or stainless steel Powder coated pure aluminium Stainless steel
Lamp	T8 fluorescent lamp (supplied with the light fittings) 18Wx2, 36Wx2, 58Wx2
Rated voltage	100-305V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	Ex db IIB+H ₂ T6 Gb for Tamb: -20°C~+55°C Ex db IIB T6 Gb for Tamb: -60°C~+55°C Ex tb IIIC T80°C Db IP66 for Tamb: -60°C~+55°C Ex II 2 G Ex db IIB+H ₂ T6 Gb for Tamb: -20°C~+55°C Ex II 2 G Ex db IIB T6 Gb for Tamb: -60°C~+55°C Ex II 2 D Ex tb IIIC T80°C Db for Tamb: -60°C~+55°C 3 x 1.5~4mm ² (L+N+PE) 2 x M25 x 1.5 plugs (M20 x 1.5 plugs is optional) DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/22~31
Terminal	
Cable entries	
Cable gland(optional)	
Emergency data	Special emergency controller and battery pile, with protection against overcharge and overdischarge
Emergency unit	
Emergency power (W)	36W x 30%, 58W x 30%
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)
BAY51-D-18 x 2G1	18x2	5.85	BAY51-D-36 x 2G1	36x2	8.45	BAY51-D-58 x 2G1	58x2	9.72
BAY51-D-18 x 2G2	18x2	7.00	BAY51-D-36 x 2G2	36x2	9.63	BAY51-D-58 x 2G2	58x2	10.90
BAY51-D-18 x 2X	18x2	5.52	BAY51-D-36 x 2X	36x2	8.13	BAY51-D-58 x 2X	58x2	9.40
BAY51-D-18 x 2L	18x2	5.64	BAY51-D-36 x 2L	36x2	8.25	BAY51-D-58 x 2L	58x2	9.52
			BAY51-D-36 x 2G1J	36x2	12.35	BAY51-D-58 x 2G1J	58x2	13.60
			BAY51-D-36 x 2G2J	36x2	13.35	BAY51-D-58 x 2G2J	58x2	14.85
			BAY51-D-36 x 2XJ	36x2	12.05	BAY51-D-58 x 2XJ	58x2	13.30
			BAY51-D-36 x 2LJ	36x2	12.15	BAY51-D-58 x 2LJ	58x2	13.40

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/31).
2. The light fittings are supplied without wire guard and external reflector. Please specify when ordering.

Light Fittings for Fluorescent Lamp

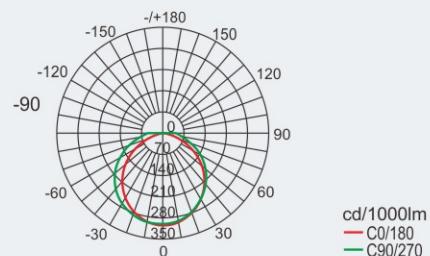
BAY51-D Series Explosion-proof Light Fittings

Photometric data

BAY51-D-18x2□、BAY51-D-14x2□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
T8 18 x 2	2600lm	65%

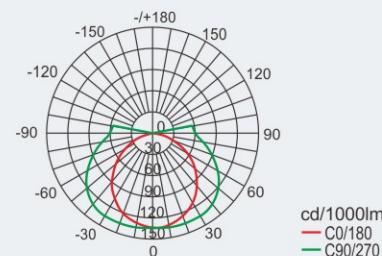
(with external reflector)



BAY51-D-18x2□、BAY51-D-14x2□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
T8 18 x 2	2600lm	65%

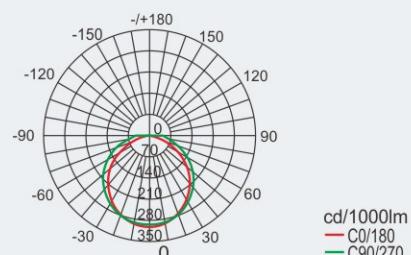
(without external reflector)



BAY51-D-36x2□□、BAY51-D-28x2□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
T8 36 x 2	6500lm	65%

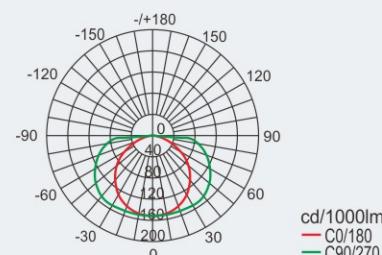
(with external reflector)



BAY51-D-36x2□□、BAY51-D-28x2□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
T8 36 x 2	6500lm	65%

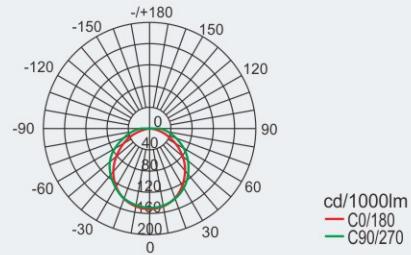
(without external reflector)



BAY51-D-58x2□□、BAY51-D-35x2□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
T8 58 x 2	10000lm	65%

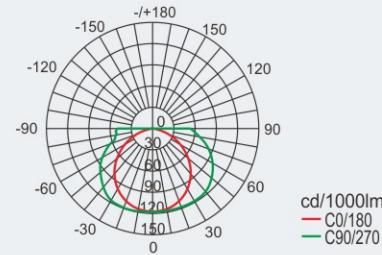
(with external reflector)



BAY51-D-58x2□□、BAY51-D-35x2□

Lamp power (W)	Rated luminous flux (Lamp tube)	Luminaire efficiency
T8 58 x 2	10000lm	65%

(without external reflector)



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

Technical data

Explosion-proof light fittings BAY51-D-□□ x □□□

Explosion protection	IECEx CQM 16.0023X Global (IECEx) Gas and dust
Europe (ATEX)	Ex db IIB T6 Gb Ex db IIB+H ₂ T6 Gb Ex tb IIIC T80°C Db IP66 TÜV CY 21 ATEX 0206465X Ex II 2 G Ex db IIB T6 Gb Ex II 2 G Ex db IIB+H ₂ T6 Gb Ex II 2 D Ex tb IIIC T80°C Db IECEx; ATEX; CU-TR
Certificates Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31, IEC 60079-0, IEC 60079-1, IEC 60079-31
Material	Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021) Toughened glass, stands 4J impact Electronic ballast Wide voltage input, CC-CV (constant current - constant voltage) output, with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit. Powder coated carbon steel (white) or stainless steel Powder coated pure aluminium Stainless steel
Lamp	LED module (supplied with the light fittings) LED: 9Wx2, 18Wx2, 28Wx2 LED: ≥80 5000K Note: nature white is available in general. Warm white or cool white is optional, please specify when ordering.
Rated voltage	LED: 100-275V AC 50/60Hz
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	Ex db IIB+H ₂ T6 Gb for Tamb: -20°C~+55°C Ex db IIB T6 Gb and Ex tb IIIC T80°C Db IP66 for Tamb: -60°C~+55°C Ex II 2 G Ex db IIB+H ₂ T6 Gb for Tamb: -20°C~+55°C Ex II 2 G Ex db IIB T6 Gb and Ex II 2 D Ex tb IIIC T80°C Db for Tamb: -60°C~+55°C 3 x 1.5~4mm ² (L+N+PE) 2 x M25 x 1.5 plugs
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 P7/22~31
Emergency data	Special emergency controller and battery pile, with protection against overcharge and overdischarge
Emergency unit	18W x 30%, 28W x 30%
Emergency power (W)	0.3s
Emergency starting time	24h
Charging time	120min (180min is optional)
Emergency lighting time	

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-LED 9 x 2G1	9x2	5.75	BAY51-D-LED 18 x 2G1	18x2	8.35	BAY51-D-LED 28 x 2G1	28x2	9.62
BAY51-D-LED 9 x 2G2	9x2	6.90	BAY51-D-LED 18 x 2G2	18x2	9.53	BAY51-D-LED 28 x 2G2	28x2	10.80
BAY51-D-LED 9 x 2X	9x2	5.42	BAY51-D-LED 18 x 2X	18x2	8.03	BAY51-D-LED 28 x 2X	28x2	9.30
BAY51-D-LED 9 x 2L	9x2	5.54	BAY51-D-LED 18 x 2L	18x2	8.15	BAY51-D-LED 28 x 2L	28x2	9.42
			BAY51-D-LED 18 x 2G1J	18x2	12.50	BAY51-D-LED 28 x 2G1J	28x2	13.72
			BAY51-D-LED 18 x 2G2J	18x2	13.23	BAY51-D-LED 28 x 2G2J	28x2	14.50
			BAY51-D-LED 18 x 2XJ	18x2	11.73	BAY51-D-LED 28 x 2XJ	28x2	13.40
			BAY51-D-LED 18 x 2LJ	18x2	11.85	BAY51-D-LED 28 x 2LJ	28x2	13.52

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/31).
2. The light fittings are supplied without wire guard and external reflector. Please specify when ordering.



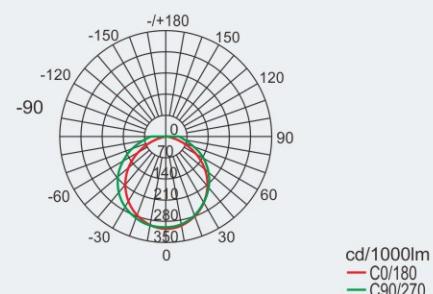
Light Fittings for Fluorescent Lamp BAY51-D Series Explosion-proof Light Fittings

Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5000K

BAY51-D-LED 9x2□

Lamp power (W)	Luminous flux	Wattage
LED 9 x 2	1999lm	19W

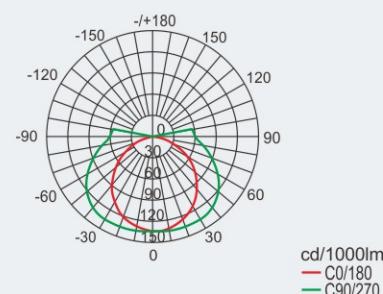
(with external reflector)



BAY51-D-LED 9x2□

Lamp power (W)	Luminous flux	Wattage
LED 9 x 2	1999lm	19W

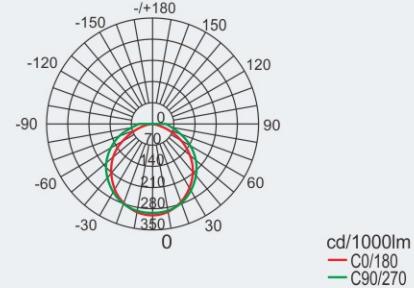
(without external reflector)



BAY51-D-LED 18x2□□

Lamp power (W)	Luminous flux	Wattage
LED 18 x 2	3920lm	36W

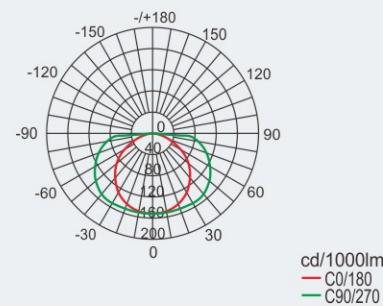
(with external reflector)



BAY51-D-LED 18x2□□

Lamp power (W)	Luminous flux	Wattage
LED 18 x 2	3920lm	36W

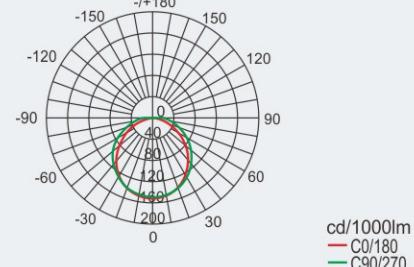
(without external reflector)



BAY51-D-LED 28x2□□

Lamp power (W)	Luminous flux	Wattage
LED 28 x 2	5900lm	56W

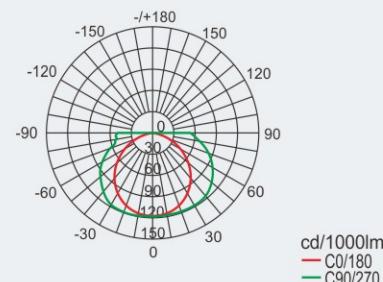
(with external reflector)



BAY51-D-LED 28x2□□

Lamp power (W)	Luminous flux	Wattage
LED 28 x 2	5900lm	56W

(without external reflector)



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

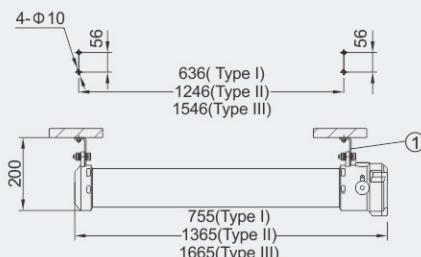
Light Fittings for Fluorescent Lamp

BAY51-D Series Explosion-proof Light Fittings

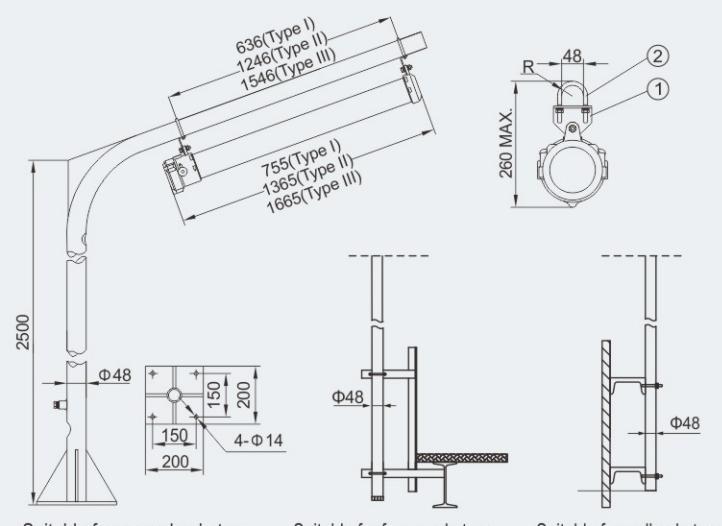
Mounting type for light fittings with dual lamp tube (all dimensions in mm) - subject to alteration

Installation reference

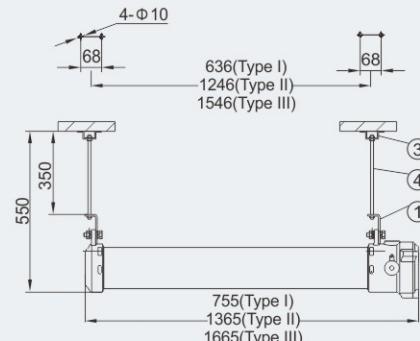
X: ceiling type



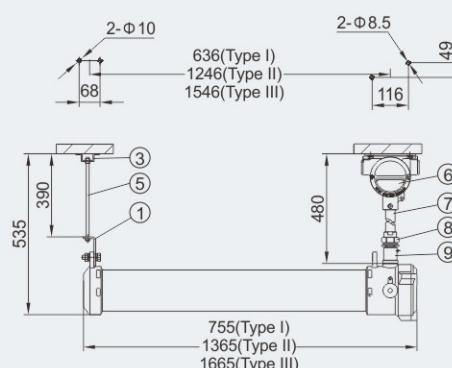
L: pole type (the pole is provided by user)



G1: pendant pole type 1



G2: pendant pole type 2



Mounting Accessories & 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	Stainless steel	51DX01	0.25
L: pole type	① Mounting plate	2	Stainless steel	51DX01	0.25
	② U type pipe clamp	2	Stainless steel	51L01	0.15
G1: pendant pole type 1	① Mounting plate	2	Stainless steel	51DX01	0.25
	③ Mounting bracket	2	Stainless steel	51S01G1	0.04
	④ M8 screw	2	Stainless steel, length: 350mm	51S01G2	0.12
G2: pendant pole type 2	① Mounting plate	2	Stainless steel	51DX01	0.25
	③ Mounting bracket	1	Stainless steel	51S01G1	0.04
	⑤ M8 screw	1	Stainless steel, length: 390mm	51S01G3	0.15
	⑥ BHD51 Explosion-proof junction box	1	Copper-free Aluminium Alloy (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) Stainless steel	81D03	0.26
	⑨ Explosion-proof connector	1	M25x1.5(F)/M25x1.5(M) Stainless steel	51G201	0.22

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