

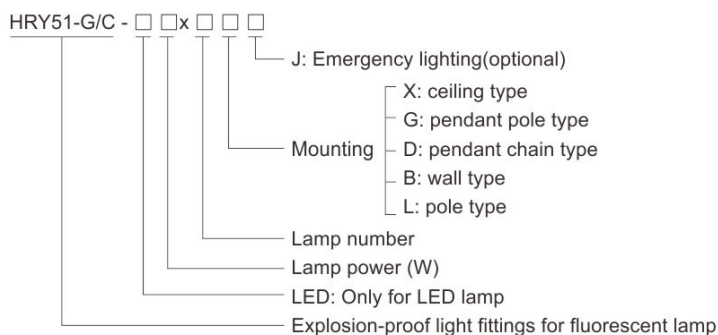
Light Fittings for Fluorescent Lamp

HRY51-G/C Series Explosion-proof Light Fittings for Fluorescent Lamp



- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ 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



Selection table

Type / Ordering code	Lamp power(W)	Weight(kg)	Type / Ordering code	Lamp power(W)	Weight(kg)
HRY51-G/C-18 x 2X	18x2	4.40	HRY51-G-36 x 2X	36x2	7.55
HRY51-G/C-18 x 2G	18x2	4.60	HRY51-G-36 x 2G	36x2	7.70
HRY51-G/C-18 x 2D	18x2	4.70	HRY51-G-36 x 2D	36x2	7.85
HRY51-G/C-18 x 2B	18x2	4.75	HRY51-G-36 x 2B	36x2	7.90
HRY51-G/C-18 x 2L	18x2	4.40	HRY51-G-36 x 2L	36x2	7.60
HRY51-G/C-LED 9 x 2X	9x2	4.30	HRY51-G-LED 18 x 2X	18x2	7.45
HRY51-G/C-LED 9 x 2G	9x2	4.45	HRY51-G-LED 18 x 2G	18x2	7.65
HRY51-G/C-LED 9 x 2D	9x2	4.60	HRY51-G-LED 18 x 2D	18x2	7.76
HRY51-G/C-LED 9 x 2B	9x2	4.65	HRY51-G-LED 18 x 2B	18x2	7.80
HRY51-G/C-LED 9 x 2L	9x2	4.30	HRY51-G-LED 18 x 2L	18x2	7.50
HRY51-G/C-LED 14 x 2X	14x2	4.60	HRY51-G-LED 28 x 2X	28x2	7.75
HRY51-G/C-LED 14 x 2G	14x2	4.75	HRY51-G-LED 28 x 2G	28x2	7.95
HRY51-G/C-LED 14 x 2D	14x2	4.90	HRY51-G-LED 28 x 2D	28x2	8.06
HRY51-G/C-LED 14 x 2B	14x2	4.95	HRY51-G-LED 28 x 2B	28x2	8.10
HRY51-G/C-LED 14 x 2L	14x2	4.60	HRY51-G-LED 28 x 2L	28x2	7.80

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/43).

Zones 1&2; 21&22

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Technical data	
Explosion-proof light fittings for fluorescent lamp HRY51-G/C-□□ × □□	
Explosion protection	
Global (IECEx)	IECEx (applied for)
Gas and dust	Ex db eb q IIC T4 Gb Ex db eb op is IIC T6 Gb Ex db eb q op is IIC T5 or T6 Gb Ex tb IIIC T80°C Db IP66
Europe (ATEX)	ATEX (applied for)
Gas and dust	Ex II 2 G Ex db eb q IIC T4 Gb Ex II 2 G Ex db eb op is IIC T6 Gb Ex II 2 G Ex db eb q op is IIC T5 or T6 Gb Ex II 2 D Ex tb IIIC T80°C Db IP66
Certificates	IECEx; ATEX; CU-TR
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-5, EN 60079-7, EN 60079-28, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-5, IEC 60079-7, IEC 60079-28, IEC 60079-31
Material	
Enclosure	Stainless steel
Glass cover	Toughened glass, stands 4J impact
Ballast	Electronic ballast, power factor ≥ 0.95
LED driver	Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥ 0.95
Exposed fastener	Stainless steel
Lamp	
Lamp specification	T8 fluorescent lamp (supplied with the light fittings) LED module (supplied with the light fittings)
Lamp power (W)	T8: 18Wx2, 36Wx2 LED: 9Wx2, 18Wx2, 14Wx2, 28Wx2
Colour rendering index (Ra)	LED: ≥ 80
LED Colour temperature (CCT)	5000K Note: nature white is available in general. Warm white or cool white is optional, please specify when ordering.
Rated voltage	T8: 96~254V AC 50/60Hz LED: 170~264V AC 50/60Hz
Degree of protection	IP66
Ambient temperature	Ex db eb q IIC T4 Gb for Tamb: -40°C~+55°C Ex db eb op is IIC T6 Gb for Tamb: -40°C~+60°C Ex db eb q op is IIC T5 Gb for Tamb: -40°C~+60°C Ex db eb q op is IIC T6 Gb for Tamb: -40°C~+45°C Ex tb IIIC T80°C Db IP66 for Tamb: -40°C~+60°C Ex II 2 G Ex db eb q IIC T4 Gb for Tamb: -40°C~+55°C Ex II 2 G Ex db eb op is IIC T6 Gb for Tamb: -40°C~+60°C Ex II 2 G Ex db eb q op is IIC T5 Gb for Tamb: -40°C~+60°C Ex II 2 G Ex db eb q op is IIC T6 Gb for Tamb: -40°C~+45°C Ex II 2 D Ex tb IIIC T80°C Db IP66 for Tamb: -40°C~+60°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 battery pile, with protection against over-charge and overdischarge
Emergency power (W)	T8: 18W x 1, 36W x 1; LED: 14W x 1, 28W x 1
Emergency starting time	0.3s
Charging time	24h
Emergency lighting time	120min (180min is optional)



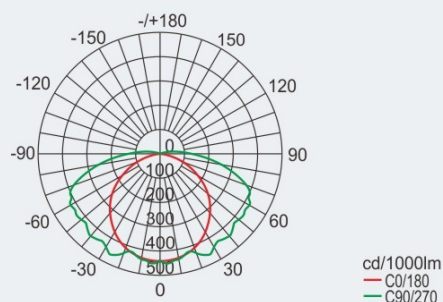
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Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5000K

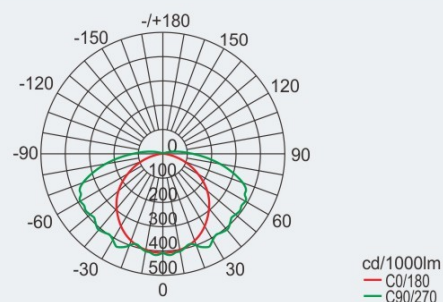
HRY51-G/C-18 x 2

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



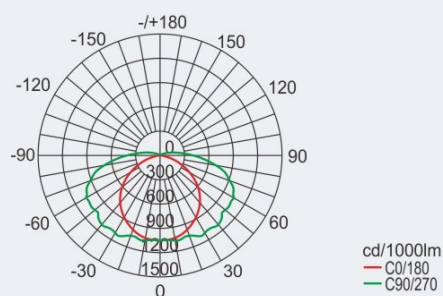
HRY51-G/C-LED9 x 2

Lamp power (W)	Luminous flux	Wattage	Luminous efficacy
LED 9 x 2	1850lm	18.5W	100lm/W
LED 14 x 2	2805lm	28W	100lm/W



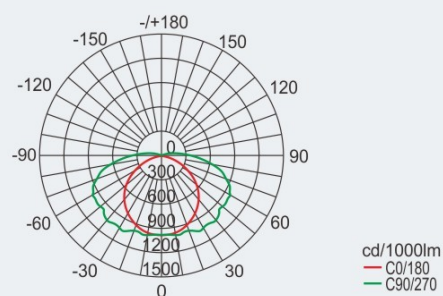
HRY51-G/C-36 x 2

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



HRY51-G/C-LED18 x 2

Lamp power (W)	Luminous flux	Wattage	Luminous efficacy
LED 18 x 2	3835lm	36.5W	105lm/W
LED 28 x 2	5770lm	56W	103lm/W



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



Type / Ordering code	L	W	H	A	B	C	D
HRY51-G/C-18x2□, HRY51-G/C-LED 9x2□, LED 14x2□	732	176	120	712	78	12	8.5
HRY51-G/C-36x2□, HRY51-G/C-LED 18x2□, LED 28x2□	1340	132	120	1320	78	12	8.5

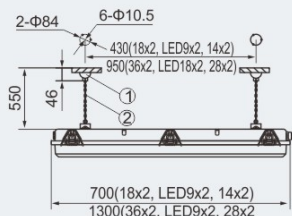
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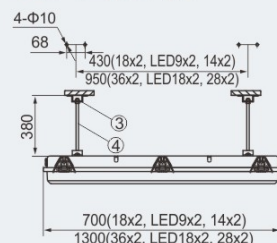
Mounting type (all dimensions in mm) - subject to alteration

Installation reference

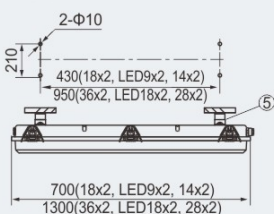
D: pendant chain type



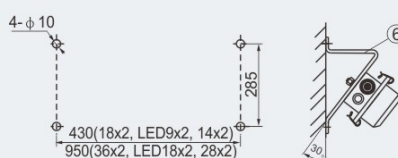
G: pendant pole type



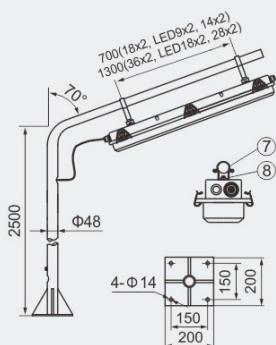
X: ceiling type



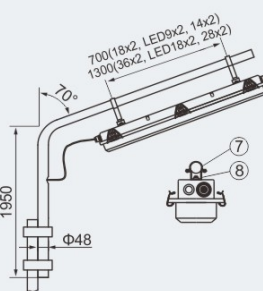
B: wall type



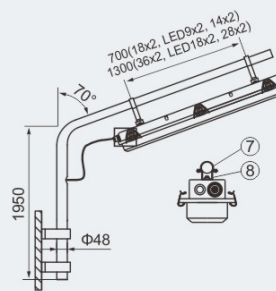
L: pole type (the pole is provided by user)



Suitable for ground pole type



Suitable for fence pole type



Suitable for wall pole type



Mounting Accessories & 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 P2/6	5136017	0.15
	②.Chain	2	Length: 450mm	5136016	0.08
G: pendant pole type	③.Mounting bracket	2	Stainless steel, see P2/6	51S01G1	0.04
	④.M8 Screw	2	Stainless steel, length: 350mm	51S01G2	0.12
X: ceiling type	⑤.Mounting bracket	2	Stainless steel, see P2/7	5136015	0.20
B: wall type	⑥.Wall bracket	2	Stainless steel, welded sheet steel	5236B02	0.25
L: pole type	⑦.G1 1/2" Pipe clamp	2	Stainless steel, see P2/7	5136014	0.04
	⑧.Mounting bracket	2	Stainless steel, see P2/7	5136012	0.04

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