

Light Fittings for Fluorescent Lamp

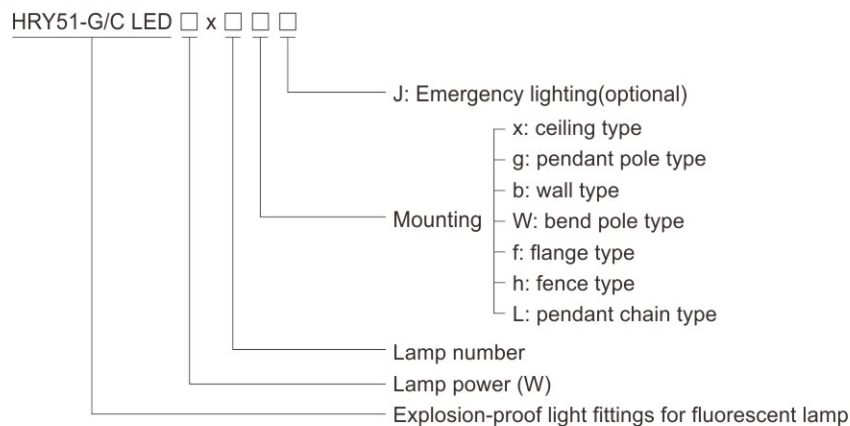
HRY51-G/C LED Series Explosion-proof Light Fittings



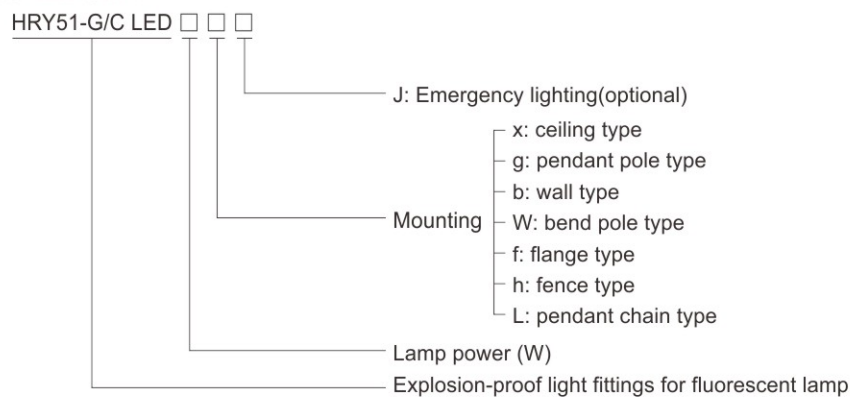
- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ Clear polycarbonate transparent cover, high light transmittance, resistance to high energy impact and thermal 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 .
- ◆ Emergency functions are available on request.

Catalogue number logic

With LED tubes:



With LED SMT :



Zones 1&2; 21&22

Light Fittings for Fluorescent Lamp

HRY51-G/C LED Series Explosion-proof Light Fittings

Technical data				
Explosion-proof light fittings with LED tubes		HRY51-G/C LED □ × □□□		
Explosion protection	Global (IECEX)	IECEX CML 20. 0167X		
	Gas and dust	Ex db eb IIC T□ Gb ¹⁾ Ex db eb q IIC T□ Gb ¹⁾		
Europe (ATEX)	Europe (ATEX)	Ex tb IIIC T80℃ Db IP66/IP67		
	Gas and dust	CML 20 ATEX 1296X ⊕ II 2 G Ex db eb IIC T□ Gb ¹⁾ ⊕ II 2 G Ex db eb q IIC T□ Gb ¹⁾ ⊕ II 2 D Ex tb IIIC T80℃ Db IP66/IP67		
Certificates		¹⁾ See ambient temerature IECEX; ATEX; CU-TR; INMETRO		
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	Stainless steel		
	Diffuser	Polycarbonate, 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	LED tubes (supplied with the light fittings)		
	Lamp power (W)	9Wx2, 18Wx2, 14Wx2, 28Wx2		
	Colour rendering index (Ra)	≥ 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		9Wx2, 18Wx2: 170~264V AC 50/60Hz 14Wx2, 28Wx2: 100~277V AC 50/60Hz, 200~250V DC		
Degree of protection		IP66/IP67		
Ambient temperature		Rated Power (W)	Ex-mark	Ambient temperature
	9×2□ 18×2□		⊕ II 2 G Ex db eb IIC T6 Gb ⊕ II 2 D Ex tb IIIC T80℃ Db	-40℃~+57℃
			⊕ II 2 G Ex db eb IIC T5 Gb ⊕ II 2 D Ex tb IIIC T80℃ Db	-40℃~+58℃
	14×2□ 28×2□		⊕ II 2 G Ex db eb q IIC T6 Gb ⊕ II 2 D Ex tb IIIC T80℃ Db	-40℃~+53℃
			⊕ II 2 G Ex db eb q IIC T5 Gb ⊕ II 2 D Ex tb IIIC T80℃ Db	-40℃~+58℃
	14×2□J 28×2□J		⊕ II 2 G Ex db eb q IIC T6 Gb ⊕ II 2 D Ex tb IIIC T80℃ Db	-40℃~+48℃
			⊕ II 2 G Ex db eb q IIC T5 Gb ⊕ II 2 D Ex tb IIIC T80℃ Db	-40℃~+53℃
	Terminal	3 x 1.5~4mm ² (L+N+PE)		
	Cable entries	4 x Φ21: 4 x M20 x 1.5 cable glands (DQM-I Ex e, plastic)		
	Available cable outer diameter	Φ9~Φ16 (mm)		
Emergency data	Emergency unit	Special emergency controller and battery pile, with protection against over-charge and overdischarge		
	Emergency power (W)	14W x 30%, 28W x 30%		
	Emergency starting time	0.3s		
	Charging time	24h		
	Emergency lighting time	120min (180min is optional)		



Light Fittings for Fluorescent Lamp

HRY51-G/C LED Series Explosion-proof Light Fittings

Technical data

Explosion-proof light fittings with LED SMT HRY51-G/C LED □□□

Explosion protection

Global (IECEX)

IECEX (applied for)

Gas and dust

Ex db eb mb IIC T6/T5/T4 Gb

Ex tb IIIC T80°C/T95°C/T130°C Db

Europe (ATEX)

ATEX (applied for)

Gas and dust

Ex II 2 G Ex db eb mb IIC T6/T5/T4 Gb

Ex II 2 G Ex tb IIIC T80°C/T95°C/T130°C Db

Certificates

IECEX; ATEX

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-18, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-18, IEC 60079-31

Material

Enclosure

Stainless steel

Diffuser

Polycarbonate, 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

LED SMT (supplied with the light fittings)

Lamp power (W)

20W, 40W, 60W, 80W

Colour rendering index (Ra)

≥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

100-277V AC 50/60Hz 130~250V DC

Degree of protection

IP66/IP67

Ambient temperature

-40°C~+60°C(+40°C)

Terminal

3 x 1.5~4mm² (L+N+PE)

Cable entries

4 x Φ21: 4 x M20 x 1.5 cable glands (DQM-I Ex e, plastic)

Available cable outer diameter

Φ9~Φ16 (mm)

Emergency data

Emergency unit

Special emergency controller and battery pile, with protection against over-charge and overdischarge

Emergency power (W)

20W x 70%, 40W x 35%, 60W x 23%

Emergency starting time

0.3s

Charging time

24h

Emergency lighting time

90min (180min is optional)

Selection table

Rated power(W)	Temperature classification			
	-40°C ≤ Ta ≤ +40°C		-40°C ≤ Ta ≤ +60°C	
	Gas	Dust	Gas	Dust
20	T6	T80°C	T5	T95°C
40	T5	T95°C	T4	T130°C
60, 80	/	/	T4	T130°C



Light Fittings for Fluorescent Lamp

HR51-G/C LED Series Explosion-proof Light Fittings

Selection table for explosion-proof light fittings with LED tubes

Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
HR51-G/C LED 9 x 2x	9x2	7.20	HR51-G/C LED 14 x 2x	14x2	8.50	HR51-G/C LED 14 x 2xJ	14x2	8.80
HR51-G/C LED 9 x 2g	9x2	7.35	HR51-G/C LED 14 x 2g	14x2	8.65	HR51-G/C LED 14 x 2gJ	14x2	8.95
HR51-G/C LED 9 x 2b	9x2	7.55	HR51-G/C LED 14 x 2b	14x2	8.85	HR51-G/C LED 14 x 2bJ	14x2	9.15
HR51-G/C LED 9 x 2W	9x2	7.20	HR51-G/C LED 14 x 2W	14x2	8.50	HR51-G/C LED 14 x 2WJ	14x2	8.80
HR51-G/C LED 9 x 2h	9x2	7.20	HR51-G/C LED 14 x 2h	14x2	8.50	HR51-G/C LED 14 x 2hJ	14x2	8.80
HR51-G/C LED 9 x 2f	9x2	7.20	HR51-G/C LED 14 x 2f	14x2	8.50	HR51-G/C LED 14 x 2fJ	14x2	8.80
HR51-G/C LED 9 x 2L	9x2	7.50	HR51-G/C LED 14 x 2L	14x2	8.80	HR51-G/C LED 14 x 2LJ	14x2	9.10
HR51-G/C LED 18 x 2x	18x2	11.20	HR51-G/C LED 28 x 2x	28x2	12.50	HR51-G/C LED 28 x 2xJ	28x2	12.80
HR51-G/C LED 18 x 2g	18x2	11.35	HR51-G/C LED 28 x 2g	28x2	12.65	HR51-G/C LED 28 x 2gJ	28x2	12.95
HR51-G/C LED 18x 2b	18x2	11.55	HR51-G/C LED 28x 2b	28x2	12.85	HR51-G/C LED 28x 2bJ	28x2	13.15
HR51-G/C LED 18 x 2W	18x2	11.20	HR51-G/C LED 28 x 2W	28x2	12.50	HR51-G/C LED 28 x 2WJ	28x2	12.80
HR51-G/C LED 18 x 2h	18x2	11.20	HR51-G/C LED 28 x 2h	28x2	12.50	HR51-G/C LED 28 x 2hJ	28x2	12.80
HR51-G/C LED 18 x 2f	18x2	11.20	HR51-G/C LED 28 x 2f	28x2	12.50	HR51-G/C LED 28 x 2fJ	28x2	12.80
HR51-G/C LED 18 x 2L	18x2	11.50	HR51-G/C LED 28 x 2L	28x2	12.80	HR51-G/C LED 28 x 2LJ	28x2	13.10

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/55).

Selection table for explosion-proof light fittings with SMD LED

Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)	Type / Ordering code	Lamp power(W)	Weight (kg)
HR51-G/C LED 20x	20	4.55	HR51-G/C LED 40x	40	7.10	HR51-G/C LED 60x	60	7.40
HR51-G/C LED 20g	20	4.70	HR51-G/C LED 40g	40	7.30	HR51-G/C LED 60g	60	7.60
HR51-G/C LED 20b	20	4.90	HR51-G/C LED 40b	40	7.50	HR51-G/C LED 60b	60	7.80
HR51-G/C LED 20W	20	4.55	HR51-G/C LED 40W	40	7.10	HR51-G/C LED 60W	60	7.40
HR51-G/C LED 20h	20	4.55	HR51-G/C LED 40h	40	7.10	HR51-G/C LED 60h	60	7.40
HR51-G/C LED 20f	20	4.55	HR51-G/C LED 40f	40	7.10	HR51-G/C LED 60f	60	7.40
HR51-G/C LED 20L	20	4.85	HR51-G/C LED 40L	40	7.50	HR51-G/C LED 60LJ	60	7.70
HR51-G/C LED 20xJ	20	5.90	HR51-G/C LED 40xJ	40	8.40	HR51-G/C LED 60xJ	60	8.40
HR51-G/C LED 20gJ	20	6.00	HR51-G/C LED 40gJ	40	8.60	HR51-G/C LED 60gJ	60	8.50
HR51-G/C LED 20bJ	20	6.20	HR51-G/C LED 40bJ	40	8.80	HR51-G/C LED 60bJ	60	8.70
HR51-G/C LED 20WJ	20	5.90	HR51-G/C LED 40WJ	40	8.50	HR51-G/C LED 60WJ	60	8.40
HR51-G/C LED 20hJ	20	5.90	HR51-G/C LED 40hJ	40	8.50	HR51-G/C LED 60hJ	60	8.40
HR51-G/C LED 20fJ	20	5.90	HR51-G/C LED 40fJ	40	8.50	HR51-G/C LED 60fJ	60	8.40
HR51-G/C LED 20LJ	20	6.20	HR51-G/C LED 40LJ	40	8.50	HR51-G/C LED 60LJ	60	8.70
HR51-G/C LED 80x	80	8.10						
HR51-G/C LED 80g	80	8.20						
HR51-G/C LED 80b	80	8.40						
HR51-G/C LED 80W	80	8.10						
HR51-G/C LED 80h	80	8.10						
HR51-G/C LED 80f	80	8.10						
HR51-G/C LED 80L	80	8.40						

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/55).



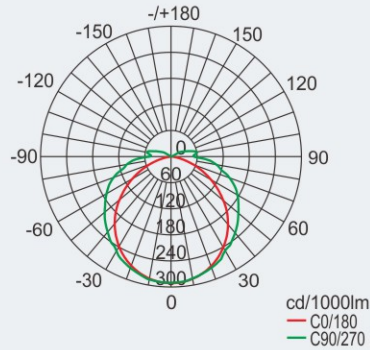
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HRY51-G/C LED Series Explosion-proof Light Fittings

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

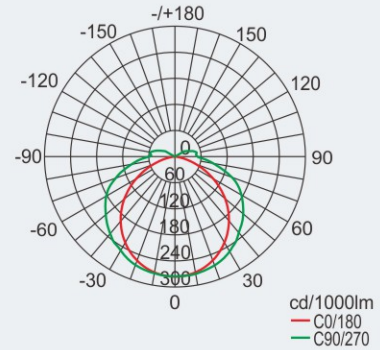
HRY51-G/C LED □ x □□□

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



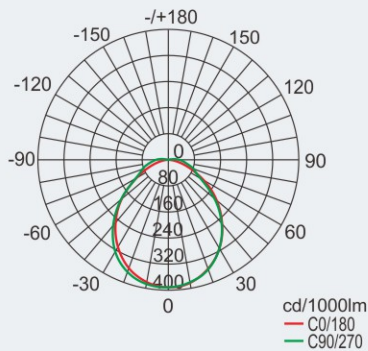
HRY51-G/C LED □ x □□□

Lamp power (W)	Luminous flux	Wattage
18 x 2	3835lm	36.5W
28 x 2	5770lm	56W



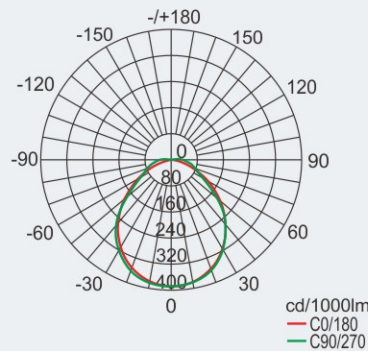
HRY51-G/C LED 20□□

Lamp power	20W
Luminous flux	2500lm
Wattage	22W



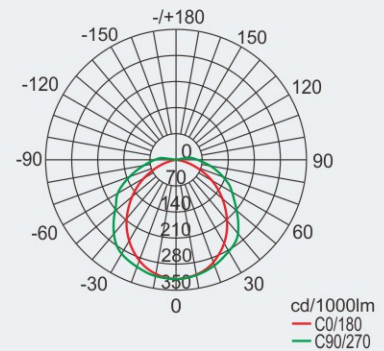
HRY51-G/C LED 40□□

Lamp power	40W
Luminous flux	5100lm
Wattage	43W



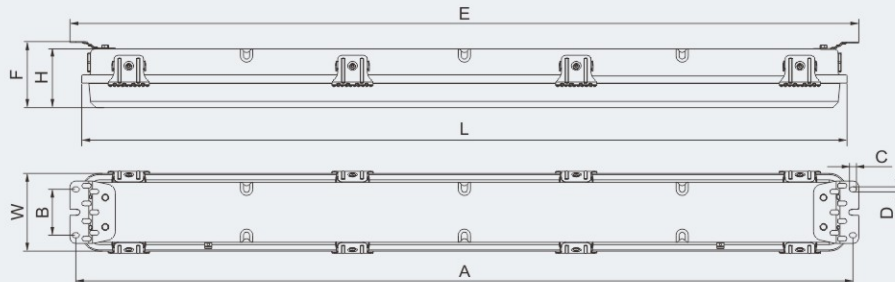
HRY51-G/C LED □□□□

Lamp power	60W	80W
Luminous flux	7000lm	9900lm
Wattage	58W	86W



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



Enclosure type	Rated power (W)	L	W	H	A	B	C	D	E	F
Type I	9x2, 14x2, 20	692	150	100	705	78	12	8.5	732	113
Type II	18x2, 28x2, 40, 60, 80	1300	132	100	1320	78	12	8.5	1340	113

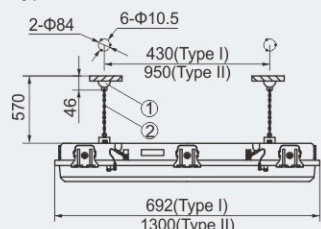
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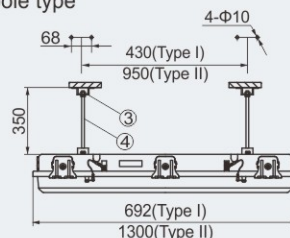
Mounting type (all dimensions in mm) - subject to alteration

Installation reference

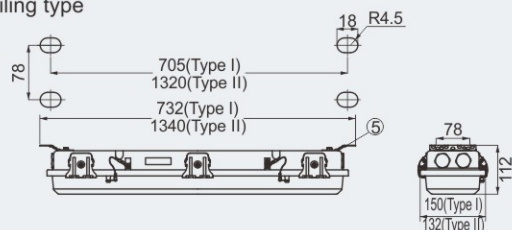
L: pendant chain type



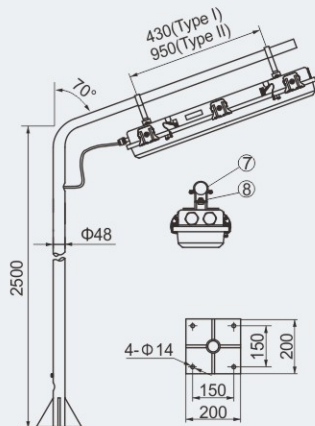
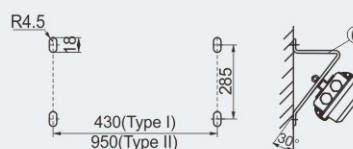
g: pendant pole type



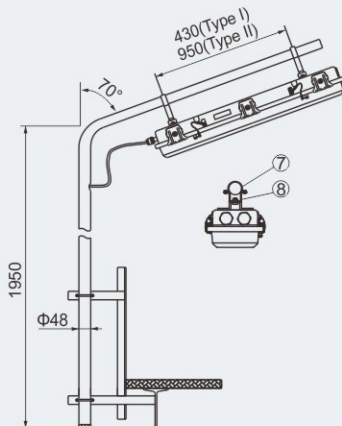
x: ceiling type



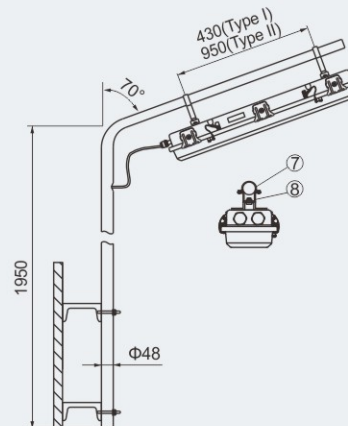
b: wall type



f: flange type



h: fence type



W: bend pole type

Mounting Accessories & Spare Parts Table

Supplied according to the mounting type

Mounting type	Accessories			Ordering code	Weight (kg)
	Name	Qty	Illustration		
L: 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	5136015	0.20
b: wall type	⑥.Wall bracket	2	Stainless steel, welded sheet steel	5236B02	0.25
f: flange 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
h: fence 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
W: bend 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.