

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.

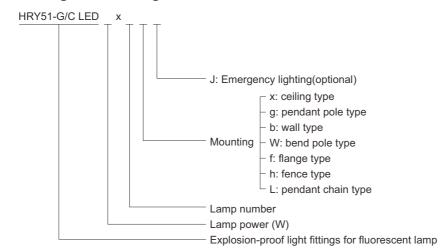
Built-in electronic ballast, power factor 0.95.

LED driver, wide voltage input, CC-CV (constant current -

constant voltage) output, power factor 0.95.

Emergency functions is available on request.

Catalogue number logic





Zones 1&2; 21&22

Technical data

Explosion-proof light fittings with LED tubes HRY51-G/C LED ×

Explosion protection

Material

Diffuser Ballast

Lamp

LED driver

Exposed fastener

Lamp power (W)

Rated voltage

Terminal

Cable entries

Emergency data Emergency unit

Available cable outer diameter

Degree of protection

Ambient temperature

Colour rendering index (Ra)

LED Colour temperature (CCT)

Global (IECEx) IECEx CML 20. 0167X Gas and dust Ex db eb IIC T Gb Ex db eb q IIC T Gb

Ex tb IIIC T80 Db IP66/IP67

Europe (ATEX) CML 20 ATEX 1296X

Gas and dust (Ex II 2 G Ex db eb IIC T Gb (Ex II 2 G Ex db eb q IIC T Gb

Certificates IECEx; ATEX; CU-TR

EN 60079-0, EN 60079-1, EN 60079-5, EN 60079-7, EN 60079-31

Conformity to standards IEC 60079-0, IEC 60079-1, IEC 60079-5, IEC 60079-7, IEC 60079-31

Enclosure Stainless steel

> Clear polycarbonate, stands 4J impact Electronic ballast, power factor 0.95

> > Wide voltage input, CC-CV (constant current - constant voltage) output, power factor 0.95

Stainless steel

Lamp specification LED tubes (supplied with the light fittings)

9Wx2, 18Wx2, 14Wx2, 28Wx2

80 5000K

Note: nature white is available in general. Warm white or cool white is optional,

please specify when ordering.

9Wx2, 18Wx2: 170~264V AC 50/60Hz

14Wx2, 28Wx2: 100~277V AC 50/60Hz, 200~250V DC

IP66/IP67

Rated Power (W)	Ex-mark	Ambient temperature
9×2□ 18×2□	(Ex) II 2 G Ex db eb IIC T6 Gb (Ex) II 2 D Ex tb IIIC T80 Db	-40 ~+57
	II 2 G Ex db eb IIC T5 GbII 2 D Ex tb IIIC T80 Db	-40 ~+58
14×2□ 28×2□	(x) II 2 G Ex db eb q IIC T6 Gb (x) II 2 D Ex tb IIIC T80 Db	-40 ~+53
	(x) II 2 G Ex db eb q IIC T5 Gb (x) II 2 D Ex tb IIIC T80 Db	-40 ~+58
14×2□J 28×2□J	(x) II 2 G Ex db eb q IIC T6 Gb (x) II 2 D Ex tb IIIC T80 Db	-40 ~+48
	(x) II 2 G Ex db eb q IIC T5 Gb (x) II 2 D Ex tb IIIC T80 Db	-40 ~+53

3 x 1.5~4mm² (L+N+PE)

4 x 21: 4 x M20 x 1.5 cable glands (DQM-I Ex e, plastic)

9~ 16 (mm)

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

charge and overdischarge 14W x 30%, 28W x 30%

Emergency starting time 0.3s 24h

Charging time

Emergency lighting time 120min (180min is optional)

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Emergency power (W)

http://www.waromgroup.com

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Technical data

Explosion-proof light fittings with SMD LED HRY51-G/C LED

Explosion protection

Global (IECEx) IECEx (applied for)

Gas and dust Ex db eb mb IIC T6 Gb

Ex tb IIIC T80 Db

Europe (ATEX) ATEX (applied for)

Gas and dust & II 2 G Ex db eb mb IIC T6 Gb

(Ex) II 2 G Ex tb IIIC T80 Db

Certificates IECEx; ATEX; CU-TR

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 Clear 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 SMD LED (supplied with the light fittings)

Lamp power (W) 20W, 40W, 60W

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 ~+60

Terminal 3 x 1.5~4mm² (L+N+PE)

Cable entries4 x21: 4 x M20 x 1.5 cable glands (DQM-I Ex e, plastic)

Available cable outer diameter 9~ 16 (mm)

Emergency data

Emergency unit Special emergency controller and battery pile, with protection against over-

charge and overdischarge

Emergency power (W) 20W x 60%, 40W x 30%

Emergency starting time 0.3s

Charging time 24h

Emergency lighting time 90min (180min is optional)



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)	
HRY51-G/C LED 9 x 2x	9×2	7.20	HRY51-G/C LED 14 x 2x	14×2	8.50	HRY51-G/C LED 14 x 2xJ	14×2	8.80	
HRY51-G/C LED 9 x 2g	9×2	7.35	HRY51-G/C LED 14 x 2g	14×2	8.65	HRY51-G/C LED 14 x 2gJ	14×2	8.95	
HRY51-G/C LED 9 x 2b	9×2	7.55	HRY51-G/C LED 14 x 2b	14×2	8.85	HRY51-G/C LED 14 x 2bJ	14×2	9.15	
HRY51-G/C LED 9 x 2W	9×2	7.20	HRY51-G/C LED 14 x 2W	14×2	8.50	HRY51-G/C LED 14 x 2WJ	14×2	8.80	
HRY51-G/C LED 9 x 2h	9×2	7.20	HRY51-G/C LED 14 x 2h	14×2	8.50	HRY51-G/C LED 14 x 2hJ	14×2	8.80	
HRY51-G/C LED 9 x 2f	9×2	7.20	HRY51-G/C LED 14 x 2f	14×2	8.50	HRY51-G/C LED 14 x 2fJ	14×2	8.80	
HRY51-G/C LED 9 x 2L	9×2	7.50	HRY51-G/C LED 14 x 2L	14×2	8.80	HRY51-G/C LED 14 x 2LJ	14×2	9.10	
HRY51-G/C LED 18 x 2x	18×2	11.20	HRY51-G/C LED 28 x 2x	28×2	12.50	HRY51-G/C LED 28 x 2xJ	28×2	12.80	
HRY51-G/C LED 18 x 2g	18×2	11.35	HRY51-G/C LED 28 x 2g	28×2	12.65	HRY51-G/C LED 28 x 2gJ	28×2	12.95	
HRY51-G/C LED 18x 2b	18×2	11.55	HRY51-G/C LED 28x 2b	28×2	12.85	HRY51-G/C LED 28x 2bJ	28×2	13.15	
HRY51-G/C LED 18 x 2W	18×2	11.20	HRY51-G/C LED 28 x 2W	28×2	12.50	HRY51-G/C LED 28 x 2WJ	28×2	12.80	
HRY51-G/C LED 18 x 2h	18×2	11.20	HRY51-G/C LED 28 x 2h	28×2	12.50	HRY51-G/C LED 28 x 2hJ	28×2	12.80	
HRY51-G/C LED 18 x 2f	18×2	11.20	HRY51-G/C LED 28 x 2f	28×2	12.50	HRY51-G/C LED 28 x 2fJ	28×2	12.80	
HRY51-G/C LED 18 x 2L	18×2	11.50	HRY51-G/C LED 28 x 2L	28×2	12.80	HRY51-G/C LED 28 x 2LJ	28×2	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)
HRY51-G/C LED 20x	20	5.15	HRY51-G/C LED 40x	40	7.40	HRY51-G/C LED 60x	60	8.40
HRY51-G/C LED 20g	20	5.30	HRY51-G/C LED 40g	40	7.55	HRY51-G/C LED 60g	60	8.55
HRY51-G/C LED 20b	20	5.50	HRY51-G/C LED 40b	40	7.75	HRY51-G/C LED 60b	60	8.75
HRY51-G/C LED 20W	20	5.15	HRY51-G/C LED 40W	40	7.40	HRY51-G/C LED 60W	60	8.40
HRY51-G/C LED 20h	20	5.15	HRY51-G/C LED 40h	40	7.40	HRY51-G/C LED 60h	60	8.40
HRY51-G/C LED 20f	20	5.15	HRY51-G/C LED 40f	40	7.40	HRY51-G/C LED 60f	60	8.40
HRY51-G/C LED 20L	20	5.45	HRY51-G/C LED 40L	40	7.70	HRY51-G/C LED 60L	60	8.70
HRY51-G/C LED 20xJ	20	6.05	HRY51-G/C LED 40xJ	40	8.30			
HRY51-G/C LED 20gJ	20	6.20	HRY51-G/C LED 40gJ	40	8.45			
HRY51-G/C LED 20bJ	20	6.40	HRY51-G/C LED 40bJ	40	8.65			
HRY51-G/C LED 20WJ	20	6.05	HRY51-G/C LED 40WJ	40	8.30			
HRY51-G/C LED 20hJ	20	6.05	HRY51-G/C LED 40hJ	40	8.30			
HRY51-G/C LED 20fJ	20	6.05	HRY51-G/C LED 40fJ	40	8.30			
HRY51-G/C LED 20LJ	20	6.35	HRY51-G/C LED 40LJ	40	8.60			

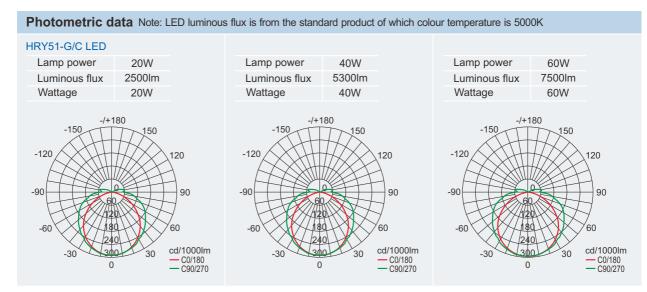
Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/55).

Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5000K							
HRY51-G/C LED	x		HRY51-G/C LED	х			
Lamp power (W)	Luminous flux	Wattage	Lamp power (W)	Luminous flux			
9 x 2	1850lm	18.5W	18 x 2	3835lm			
14 x 2	2805lm	28W	28 x 2	5770lm			
-120 -90 -60	120 90 90 1240 30 30	d/1000lm — C0/180 — C90/270	-120 -90 -60 -30	120 90 180 60 cd/11			





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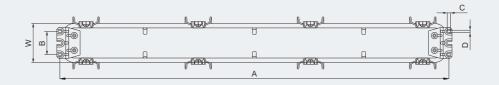


We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

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

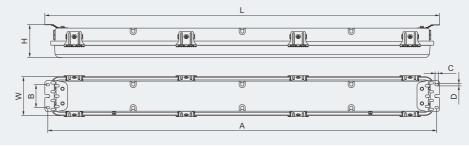
Explosion-proof light fittings with LED tube





Type / Ordering code	L	W	Н	Α	В	С	D
HRY51-G/C LED 9x2 , HRY51-G/C LED 14x2	732	176	120	705	78	12	8.5
HRY51-G/C LED 18x2 , HRY51-G/C LED 28x2	1340	132	120	1320	78	12	8.5

Explosion-proof light fittings with SMD LED



Type / Ordering code	L	W	Н	Α	В	С	D
HRY51-G/C LED 20	732	150	113	705	78	12	8.5
HRY51-G/C LED 40	1340	132	113	1320	78	12	8.5
HRY51-G/C LED 60	1340	132	113	1320	78	12	8.5



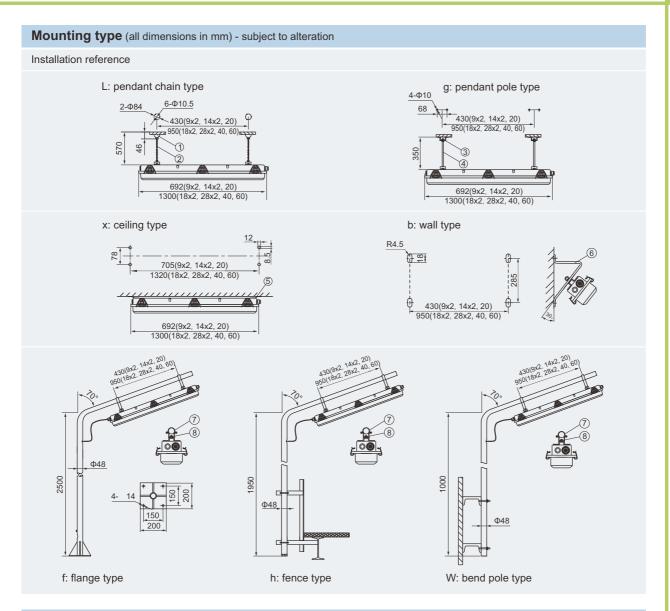
Mounting Accessories & Spare Parts Table

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

.Mounting bracket

Supplied according to the mounting type

W: bend pole type





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5136012

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Mounting	Accessories				Weight
type	Name	Qty	Illustration	code	(kg)
Lancardon to be to tone	.Sucker	2	See P2/6	5136017	0.15
L: pendant chain type	.Chain	2	Length: 450mm	5136016	0.08
g: pendant pole type	.Mounting bracket	2	Stainless steel, see P2/6	51S01G1	0.04
g. peridant pole type	.M8 Screw	2	Stainless steel, length: 350mm	51S01G2	0.12
x: ceiling type	.Mounting bracket	2	Stainless steel	5136015	0.20
b: wall type	.Wall bracket	2	Stainless steel, welded sheet steel	5236B02	0.25
f: flange type	.G1 1/2" Pipe clamp	2	Stainless steel, see P2/7	5136014	0.04
i. lialige type	.Mounting bracket	2	Stainless steel, see P2/7	5136012	0.04
h: fence type	.G1 1/2" Pipe clamp	2	Stainless steel, see P2/7	5136014	0.04
11. Ionoo type	.Mounting bracket	2	Stainless steel, see P2/7	5136012	0.04
W: hend note type	.G1 1/2" Pipe clamp	2	Stainless steel, see P2/7	5136014	0.04

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Stainless steel, see P2/7