Light Fittings for Fluorescent Lamp
HRY92-LED Series Explosion-proof LED 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
- Two enclosure types: Type I and Type II
  - Available lamp and power
  - Type I: 20W, 40W
  - Type II: 60W, 40W with emergency, 60W with emergency
- The glass tube stands 4J impact.
- Enclosure in Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021).
- Built-in 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

HRY92-LED □ □ □

- □ J: Emergency lighting (optional)
- □ Mounting
  - G1: pendant pole type 1
  - G2: pendant pole type 2
  - L: pole type
  - X: ceiling type
- □ Lamp power (W)
- HRY92-LED Explosion-proof LED light fittings

Zones 1&2; 21&22

Technical data

Explosion-proof LED light fittings HRY92-LED □□□

Explosion protection	
Global (IECEx)	IECEx CQM 24.0040X
Gas and dust	Ex db IIB T6 Gb Ex db IIB+H_2 T6 Gb Ex tb IIIC T80°C Db
Europe (ATEX)	TÜV CY 25 ATEX 0207305X
Gas and dust	Ⓔx II 2 G Ex db IIB T6 Gb Ⓔx II 2 G Ex db IIB+H_2 T6 Gb Ⓔx II 2 D Ex tb IIIC T80°C Db
Certificates	IECEx; ATEX
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31, IEC 60079-0, IEC 60079-1, IEC 60079-31
Material	
Enclosure	Copper-free Aluminium Alloy, powder coated surface, yellow (RAL1021)
Glass tube	Toughened glass, stands 4J impact
LED driver	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.
Wire guard (optional)	Powder coated carbon steel (white) or stainless steel
External reflector (optional)	Powder coated pure aluminium
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
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	IIB/IIIC for Tamb: -60°C~+55°C IIB+H_2 for Tamb: -20°C~+55°C
Terminal	3×1.5~4mm^2 (L+N+PE)
Cable entries	2×M25×1.5 or 2×NPT3/4" plugs
Cable gland(optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P6/24~39
Emergency data	
Emergency unit	Special emergency controller and battery pile, with protection against overcharge and overdischarge
Emergency power (W)	40W×15%, 60W×15%
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)
HRY92-LED 20G1	20	5.75	HRY92-LED 40G1	40	5.80	HRY92-LED 60G1	60	8.35
HRY92-LED 20G2	20	6.90	HRY92-LED 40G2	40	6.95	HRY92-LED 60G2	60	9.53
HRY92-LED 20GX	20	5.42	HRY92-LED 40GX	40	5.47	HRY92-LED 60GX	60	8.03
HRY92-LED 20GL	20	5.54	HRY92-LED 40GL	40	5.59	HRY92-LED 60GL	60	8.15
			HRY92-LED 40G1J	40	6.60	HRY92-LED 60G1J	60	9.15
			HRY92-LED 40G2J	40	7.75	HRY92-LED 60G2J	60	10.33
			HRY92-LED 40GXJ	40	6.27	HRY92-LED 60GXJ	60	8.83
			HRY92-LED 40GLJ	40	6.39	HRY92-LED 60GLJ	60	8.95

Note: 1. Products above include all the mounting accessories listed in Mounting Accessories & Spare Parts Table (see P2/35).
2. The light fittings are supplied without wire guard and external reflector. Please specify when ordering.

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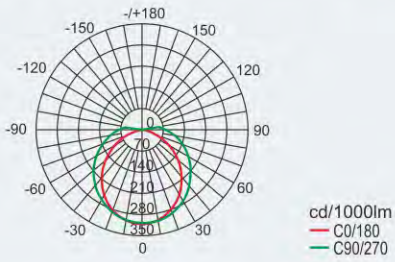
Photometric data Note: LED luminous flux is from the standard product of which colour temperature is 5000K

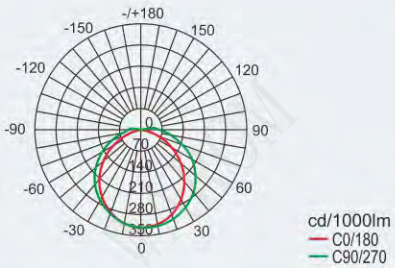
HRY92-LED 20□□ (without external reflector)

Lamp power (W)	Luminous flux	Wattage
LED 20	3031lm	18.6W



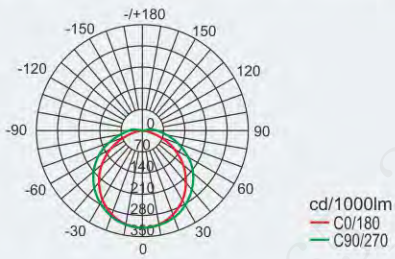
HRY92-LED 40□□ (without external reflector)

Lamp power (W)	Luminous flux	Wattage
LED 40	5968lm	36.9W



HRY92-LED 60□□ (without external reflector)

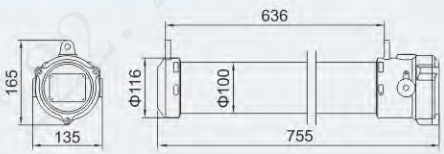
Lamp power (W)	Luminous flux	Wattage
LED 60	9244lm	56.6W



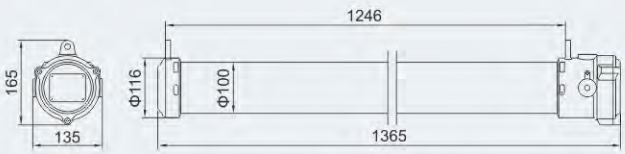
We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

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

Without external reflector

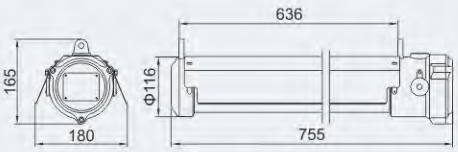


HRY92-LED20□
HRY92-LED40□

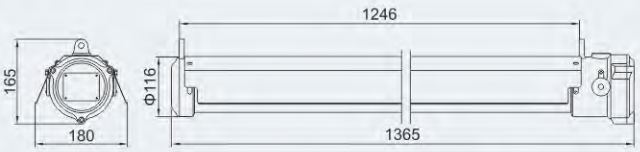


HRY92-LED40□J
HRY92-LED60□
HRY92-LED60□J

With external reflector



HRY92-LED20□
HRY92-LED40□

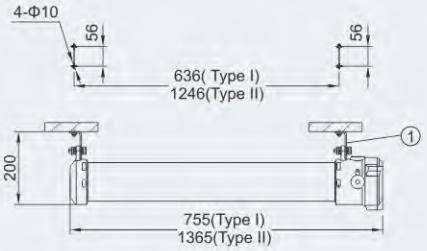


HRY92-LED40□J
HRY92-LED60□
HRY92-LED60□J

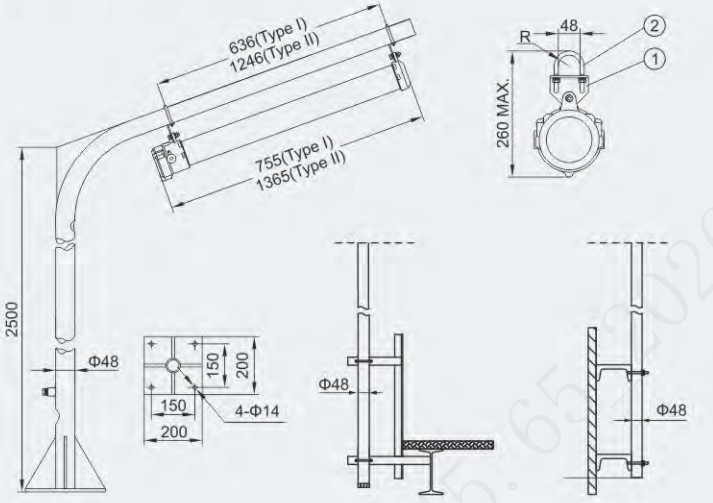
Mounting type for light fittings with dual lamp tube (all dimensions in mm) - subject to alteration

Installation reference

X: ceiling type

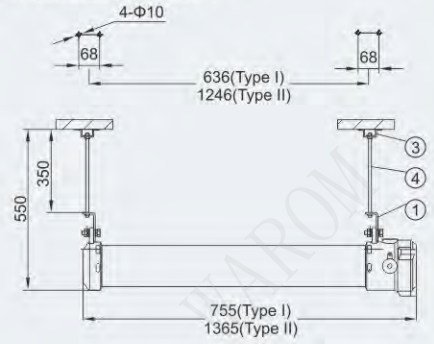


L: pole type (the pole is provided by user)

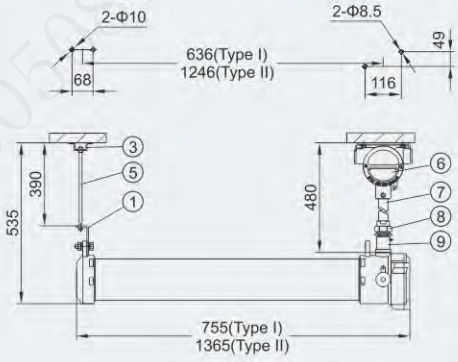


Suitable for ground pole type | Suitable for fence pole type | Suitable for wall pole type

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.