

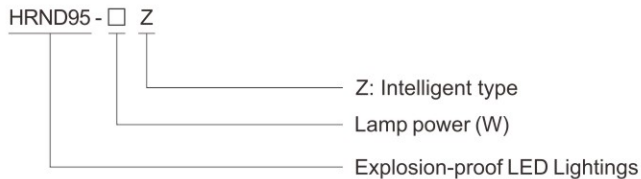
SCS-ZM Intelligent Lighting Management and Control System

HRND95-□Z Series Explosion-proof LED Lightings (Intelligent Type)



- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ International brand white light LED, reasonable arrangement of multi LED, high lighting efficiency and long service life.
- ◆ Two types of light distribution: spotlight and floodlight, which can be selected on request.
- ◆ Standard luminaires equip with 60° lens, without lens and 30° lens which are optional, please indicate when placing an order.
- ◆ Standard luminaires do not equip with external reflector, if need, please specify.
- ◆ Low-maintenance costs due to long service life, which is up to 100,000 operating hours.
- ◆ Luminaires feature adjustable brightness for efficient energy-saving lighting;
- ◆ When used with an intelligent lighting system, they enable centralized intelligent management and control of lighting equipment.

■ Catalogue number logic



■ Product features



Intelligent Control

Equipped with an intelligent control chip, it supports individual lamp control, enabling remote on/off operation and brightness adjustment. It can also integrate with smart functions such as light sensing and human presence detection.



Intelligent Monitoring

Built-in intelligent sensor chip continuously monitors lamp parameters including power, current, voltage, brightness, on/off status, and fault conditions.



Wireless Communication

Features an embedded Zigbee industrial wireless communication module, offering flexible connectivity without the need for communication cabling—greatly simplifying on-site installation.



Human Presence Detection

The lamp housing can be equipped with a human presence detection module that senses movement and activates nearby lights accordingly, achieving automatic lighting when people enter the area and turning off when they leave.

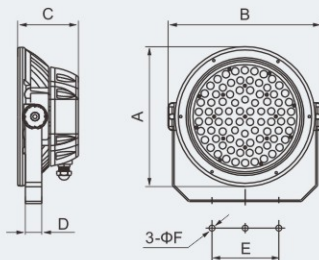
Zones 1&2; 21&22

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Technical data	
Explosion-proof LED Lightings (Intelligent type) HRND95-□Z	
Explosion protection	
Global (IECEX)	IECEX (applied for)
Gas and dust	Ex ec mc IIC T□ ¹⁾ Gc Ex tb IIIC T□ ¹⁾ Db
Europe (ATEX)	ATEX (applied for)
Gas and dust	⊕ II 3 G Ex ec mc IIC T□ ¹⁾ Gc ⊕ II 2 D Ex tb IIIC T□ ¹⁾ Db ¹⁾ See Selection Table of P2/85
Certificates	IECEX; ATEX
Conformity to standards	EN 60079-0, EN 60079-7, EN 60079-18, EN 60079-31 IEC 60079-0, IEC 60079-7, IEC 60079-18, IEC 60079-31
Material	
Enclosure	Copper-free Aluminium Alloy, powder coated surface,
Glass cover	Toughened glass, stands 4J impact
LED driver	Wide voltage input, CC-CV (constant current - constant voltage) output, power factor ≥0.95, with function of distributed current, constant current, surge-proof and anti-electromagnetic interference, and protection against overcurrent, open circuit, and short circuit.
Exposed fastener	Stainless steel
Lamp	
Lamp specification	LED module
Lamp power (W)	Type I: 40W, 60W Type II: 80W, 120W Type III: 160W, 200W Type IV: 240W, 300W
Colour rendering index (Ra)	≥80
Colour temperature (CCT)	5000K Note: nature white is available in general. Warm white is optional, please specify when ordering.
Rated voltage	110~277V AC 50/60Hz
Degree of protection	IP66
Ambient temperature	-40°C~+58°C(+40°C)
Terminal	3×1.5~4mm ² (L+N+PE)
Cable entries	1×M20×1.5 cable gland (DQM-I Ex eb)

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



Type	A	B	C	D	E	F
HRND95-40Z HRND95-60Z	Φ230	263	118	30	100	11
HRND95-80Z HRND95-120Z	Φ310	345	137	36	150	11
HRND95-160Z HRND95-200Z	Φ380	425	166	42	200	11
HRND95-240Z HRND95-300Z	Φ450	501	198	50	200	13

Detailed Parameters

Luminaire photometric curve diagram, external dimensions, installation schematic, mounting accessories, mounting components, and spare parts list are detailed on page P2/86~87.