SCS-ZM Intelligent Lighting Management and Control System
HRNT95-□Z Series Explosion-proof LED Floodlights (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 luminaries equip with 60° lens, 30° lens which is optional, please indicate when placing an order.
- 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

HRNT95 - □ Z

- Z: Intelligent type
- Lamp power (W)
- Explosion-proof LED Floodlights

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.

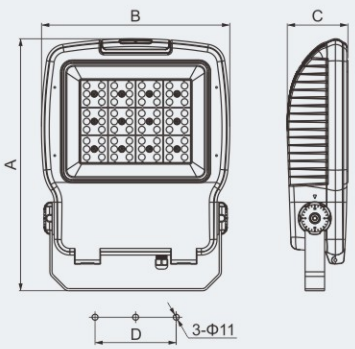
Zones 1&2; 21&22

Technical data

Explosion-proof LED floodlights (Intelligent type) HRNT95-□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	Ⓔx II 3 G Ex ec mc IIC T□[1]Gc
	Ⓔx II 2 D Ex tb IIIC T□[1] Db
	[1]See Selection Table of P2/89
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: 80W, 120W
	Type II: 150W, 200W, 240W
	Type III: 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, 130~250V DC
	415V AC 50/60Hz is optional (only for 200W, 300W)
Degree of protection	IP66
Ambient temperature	-40°C~+58°C(+40°C)
Terminal	3×1.5~4mm² (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
HRNT95-80Z HRNT95-120Z	396	296	95	130
HRNT95-150Z HRNT95-200Z HRNT95-240Z	466	348	112	150
HRNT95-300Z	558	418	133	200

Detailed Parameters

Luminaire photometric curve diagram, external dimensions, installation schematic, mounting accessories, mounting components, and spare parts list are detailed on page P2/90~91.