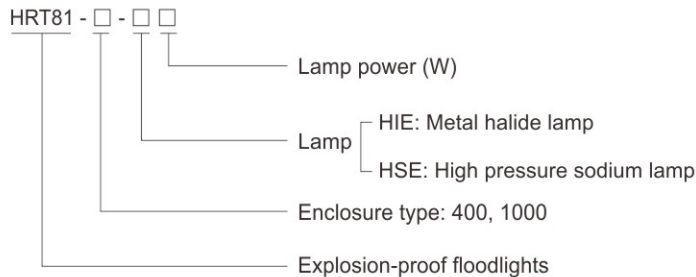


Floodlights HRT81 Series Explosion-proof Floodlights



- ◆ 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
- ◆ Available lamp (max. 1000W):
 - Metal halide lamp (HIE)
 - High pressure sodium lamp (HSE)
- ◆ Two enclosure types: 400, 1000.
- ◆ Type 400: lamp and ballast are of integral type.
Type 1000: lamp and ballast are split type.
- ◆ Enclosure in 316 stainless steel.
- ◆ Type 400 are supplied without lamp, PHILIPS lamps are recommended.
- ◆ Type 1000 are supplied with lamp.

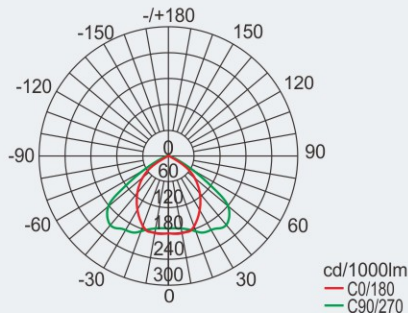
Catalogue number logic



Photometric data

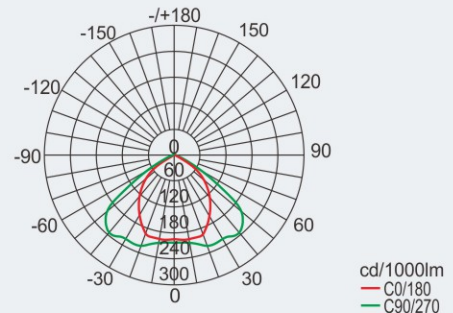
HRT81-400-□□

Rated luminous flux
 250W Metal halide lamp: 25000 lm
 150W High pressure sodium lamp: 18000 lm
 250W High pressure sodium lamp: 33200 lm
 400W Metal halide lamp: 42500 lm
 400W High pressure sodium lamp: 56500 lm
 The data from Philips lamp



HRT81-1000-□□

Rated luminous flux
 250W Metal halide lamp: 25000 lm
 150W High pressure sodium lamp: 18000 lm
 250W High pressure sodium lamp: 33200 lm
 400W Metal halide lamp: 42500 lm
 400W High pressure sodium lamp: 56500 lm
 1000W Metal halide lamp: 85000 lm
 1000W High pressure sodium lamp: 130000 lm
 The data from Philips lamp



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

Zones 2; 21&22

Floodlights HRT81 Series Explosion-proof Floodlights

Technical data		
Explosion-proof floodlights	HRT81-400-□□	HRT81-1000-□□
Explosion protection		
Global (IECEX)	ATEX (applied for)	ATEX (applied for)
Gas and dust	Ex nR IIC T3 Gc	Ex nR IIC T□ ¹⁾ Gc
Europe (ATEX)	Ex tb IIIC T190°C Db IP66	Ex t IIIC T□ ¹⁾ Db IP66
Gas and dust	IECEX (applied for)	IECEX (applied for)
	⊕ II 3 G Ex nR IIC T3 Gc	⊕ II 3 G Ex nR IIC T□ ¹⁾ Gc
	⊕ II 2 D Ex tb IIIC T190°C Db IP66	⊕ II 2 D Ex tb IIIC T□ ¹⁾ Db IP66
		¹⁾ See Selection table
Certificates	IECEX; ATEX	
Conformity to standards	EN 60079-0, EN 60079-15, EN 60079-31 IEC 60079-0, IEC 60079-15, IEC 60079-31	
Material		
Enclosure	316 stainless steel	
Glass cover	Toughened glass, stands 4J impact	
Internal reflector	High-purity aluminium	
Ballast	Electromagnetic ballast, rapid starting, stable performance	
Trigger	General trigger	
Power factor	COSφ ≥ 0.90 (compensated)	
Exposed fastener	Stainless steel	
Lamp		
Lamp holder	E40	
Available lamp and lamp power (W)	HIE: 250W, 400W HSE: 150W, 250W, 400W	HIE: 250W, 400W, 1000W HSE: 150W, 250W, 400W, 1000W
	Note: HPI European standard ballast is available in general	
Rated voltage	220~240V AC 50Hz (60Hz is optional)	150W~400W: 220~240V AC 50Hz (60Hz is optional) 1000W: 230V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)	
Degree of protection	IP65	
Ambient temperature	-60°C~+55°C	
Terminal	3 x 1.5~4mm ² (L+N+PE)	
Cable entries	2 x Φ26: 1 x M25 x 1.5 plug, 1 x M25 x 1.5 cable gland (DQM-I Ex e, plastic)	
Applicable cable outer diameter	Φ9~Φ16 (mm)	
Weight	10.00kg	30.00kg (with ballast box)



Selection table for HRT81-1000-□□

Lamp	Lamp power (W)	Temperature classes	
		Gas	Dust
HIE	250,400	T4	T130°C
HSE	150,250,400	T4	T130°C
HIE	1000	T2	T290°C
HSE	1000	T2	T290°C

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

