

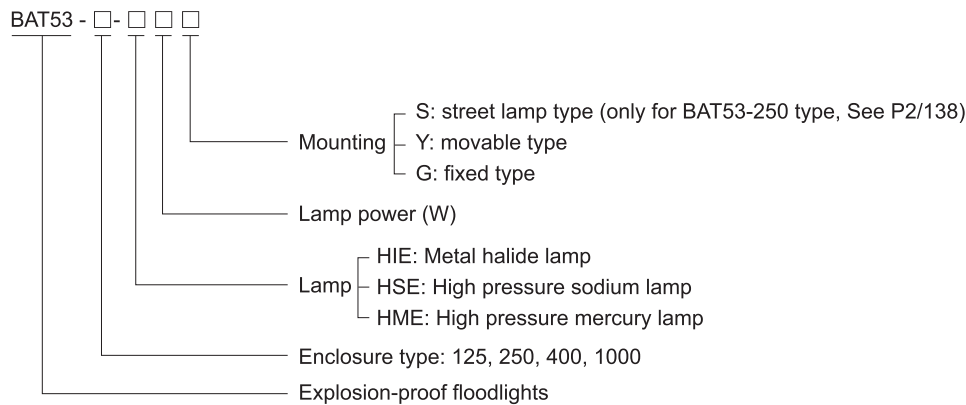
## Floodlights

### BAT53 Series Explosion-proof Floodlights



- ◆ 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 2, Groups C, D
  - Class I, Division 1, Groups C, D
- ◆ Four enclosure types: 125, 250, 400, 1000.
- ◆ Integral control gear, easy installation and maintenance.
- ◆ Rapid starting trigger, stable performance and long service life.
- ◆ Enclosure in copper-free aluminium, powder coated surface, yellow (RAL1021).
- ◆ Toughened glass cover resistant to temperature changes.

#### Catalogue number logic



#### Selection table

Type/Ordering code	Available lamp power (W)			Lamp holder	Weight (kg)
	HIE	HSE	HME		
BAT53-125	70, 100, 150	70, 100	80, 125	E27	8.45
BAT53-250	175, 250	150, 250	175, 250	E40	14.75
BAT53-400	400	400	-	E40	30.75
BAT53-1000	1000	1000	-	E40	115.00

#### Note

1. Please specify any spare parts when ordering. See Accessories table.
2. 125, 250 and 400 type light fittings are supplied without lamp. PHILIPS lamps are recommended.
3. HPI European standard ballast is supplied with HIE light fitting. HPI European standard lamps are recommended.
4. 1000 type light fittings are supplied with lamp and ballast.

# Zones 1&2; 21&22

## Floodlights

### BAT53 Series Explosion-proof Floodlights

Technical data	
<b>Explosion-proof floodlights</b>	<b>BAT53-125-□□□</b>
<b>Explosion protection</b>	<p>Gas explosion protection <math>\text{Ex II 2 G Ex d e IIB T}\square^{1)} \text{ Gb}</math></p> <p>Dust explosion protection <math>\text{Ex II 2 D Ex tb IIIC T}\square^{1)} \text{ Db IP66}</math></p> <p><sup>1)</sup> See Selection table</p>
<b>Certificates</b>	ATEX (applied for); IECEx CQM 13.0037X
<b>Conformity to standards</b>	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31
<b>Material</b>	
Enclosure	Copper-free aluminium, powder coated surface, yellow (RAL1021)
Glass cover	Toughened glass, stands 4J impact
Ballast	Electromagnetic ballast, rapid starting, stable performance
Wire guard	Powder coated carbon steel, white
Internal reflector	High-purity aluminium
Trigger	Explosion-proof electronic trigger
Capacitor	Power factor $\geq 0.90$ (compensated)
Exposed fastener	Stainless steel
<b>Lamp</b>	
Lamp holder	E27
Available lamp and lamp power (W)	High pressure sodium lamp (HSE): 70W, 100W High pressure mercury lamp (HME): 80W, 125W Metal halide lamp (HIE): 70W, 100W, 150W Note: HPI European standard ballast is available in general
<b>Rated voltage</b>	220~240V AC 50Hz (60Hz is optional)
<b>Earthing protection</b>	M5 (internal & external earth bolts)
<b>Degree of protection</b>	IP66
<b>Ambient temperature</b>	-60°C~+55°C
<b>Terminal</b>	3 x 1.5~2.5mm <sup>2</sup> (L+N+PE)
<b>Cable entries</b>	2 x $\Phi 21$ : 1 x M20 x 1.5 cable gland (DQM-I Ex e, carbon steel), 1 x M20 x 1.5 plug
<b>Available cable outer diameter</b>	$\Phi 5$ ~ $\Phi 10$ (mm)



Selection table				Dimension drawings (all dimensions in mm) - subject to alteration	
Lamp	Lamp power (W)	Temperature classes			
		Gas	Dust		
HIE	70	T156°C	T156°C		
HSE	70	T156°C	T156°C		
HSE	100	T185°C	T185°C		
HIE	100	T181°C	T181°C		
HIE	150	T190°C	T190°C		
HME	80	T163°C	T163°C		
HME	125	T209°C	T209°C		

## Floodlights

### BAT53 Series Explosion-proof Floodlights

#### Technical data

#### Explosion-proof floodlights

**BAT53-250-□□□**

#### Explosion protection

- Gas explosion protection
- Dust explosion protection

Ex II 2 G Ex d e IIB T3      Ex d e IIB T3 Gb  
Ex tD A21 IP65 T190°C

#### Certificates

- For gas explosion protection
- For dust explosion protection

LCIE 05 ATEX 6143; IECEX CQM 07.0004; KZ.7500525.22.01.00380 (CU-TR)  
PCEC (China)

#### Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-7

IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

#### Material

- Enclosure
- Glass cover
- Ballast
- Wire guard
- Internal reflector
- Trigger
- Capacitor
- Exposed fastener

Copper-free aluminium, powder coated surface, yellow (RAL1021)  
Toughened glass, stands 4J impact  
Electromagnetic ballast, rapid starting, stable performance  
Powder coated carbon steel, white  
High-purity aluminium  
Explosion-proof electronic trigger  
Power factor  $\geq 0.90$  (compensated)  
Stainless steel

#### Lamp

- Lamp holder
- Available lamp and lamp power (W)

E40  
High pressure sodium lamp (HSE): 150W, 250W  
High pressure mercury lamp (HME): 175W, 250W  
Metal halide lamp (HIE): 175W, 250W  
Note: HPI European standard ballast is available in general  
220~240V AC 50Hz (60Hz is optional)  
M5 (internal & external earth bolts)  
IP65  
-20°C~+55°C  
3 x 1.5~2.5mm<sup>2</sup> (L+N+PE)  
2 x  $\Phi 26$ : 1 x M25 x 1.5 cable gland (DQM-I Ex e, carbon steel), 1 x M25 x 1.5 plug  
 $\Phi 10 \sim \Phi 14$  (mm)

#### Rated voltage

#### Earthing protection

#### Degree of protection

#### Ambient temperature

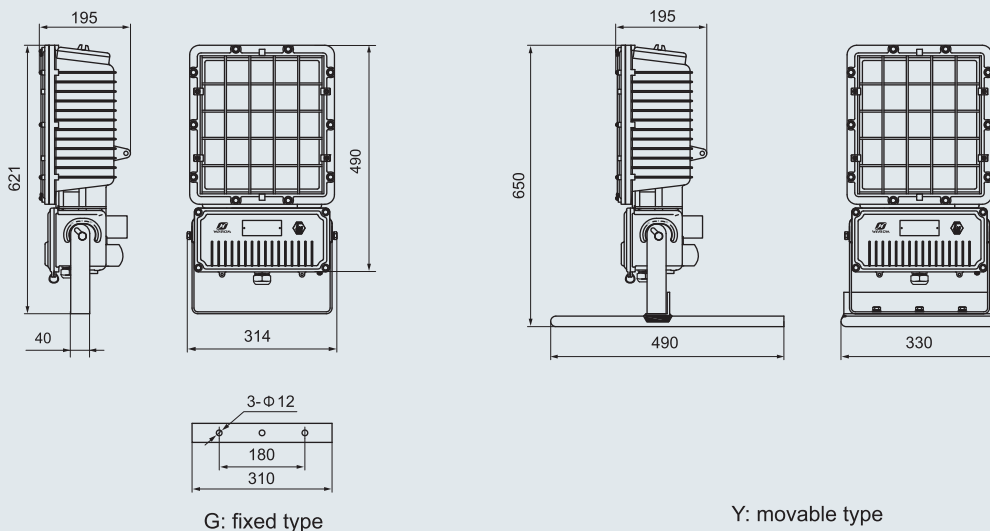
#### Terminal

#### Cable entries

#### Available cable outer diameter



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



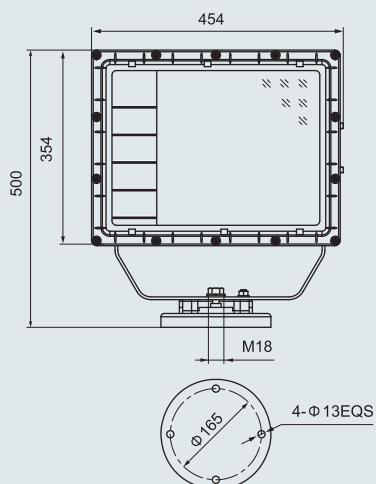
## Floodlights

### BAT53 Series Explosion-proof Floodlights

Technical data	
<b>Explosion-proof floodlights</b>	<b>BAT53-400-□□□</b>
<b>Explosion protection</b>	
Gas explosion protection	⊕ II 2 G Ex d e IIB T3
Dust explosion protection	Ex tD A21 IP65 T190°C
<b>Certificates</b>	
For gas explosion protection	LCIE 07 ATEX 6106; IECEx CQM 08.0014; KZ.7500525.22.01.00380 (CU-TR)
For dust explosion protection	PCEC (China)
<b>Conformity to standards</b>	EN 60079-0, EN 60079-1, EN 60079-7 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1
<b>Material</b>	
Enclosure	Copper-free aluminium, powder coated surface, yellow (RAL1021)
Glass cover	Toughened glass, stands 4J impact
Ballast	Electromagnetic ballast, rapid starting, stable performance
Internal reflector	High-purity aluminium
Trigger	Explosion-proof electronic trigger
Capacitor	Power factor $\geq 0.90$ (compensated)
Exposed fastener	Stainless steel
Wire guard (optional)	Powder coated carbon steel, white
<b>Lamp</b>	
Lamp holder	E40
Available lamp and lamp power (W)	High pressure sodium lamp (HSE): 400W (tubular) Metal halide lamp (HIE): 400W (tubular) Note: HPI European standard ballast is available in general
<b>Rated voltage</b>	220~240V AC 50Hz (60Hz is optional)
<b>Earthing protection</b>	M5 (internal & external earth bolts)
<b>Degree of protection</b>	IP65
<b>Ambient temperature</b>	-20°C~+55°C
<b>Terminal</b>	3 x 1.5~2.5mm <sup>2</sup> (L+N+PE)
<b>Cable entries</b>	2 x M25 x 1.5: 1 x M25 x 1.5 cable gland (DQM-I Ex e, carbon steel), 1 x M25 x 1.5 plug
<b>Available cable outer diameter</b>	Φ 10~Φ 14 (mm)



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



## Floodlights

### BAT53 Series Explosion-proof Floodlights

#### Technical data

#### Explosion-proof floodlights

**BAT53-1000-□□□**

#### Explosion protection

- Gas explosion protection
- Dust explosion protection

⊕ II 2 G Ex d IIB T3 Gb

⊕ II 2 D Ex tb IIIC T193°C Db IP66

#### Certificates

EPT 15 ATEX 1977X; IECEx CQM 14.0066X; KZ.7500525.22.01.00380 (CU-TR)

#### Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

#### Material

Enclosure

Welded carbon steel, powder coated surface, yellow (RAL1021)

Glass cover

Toughened glass, stands 4J impact

Ballast

Electromagnetic ballast, rapid starting, stable performance

Trigger

General trigger

Capacitor

Power factor  $\geq 0.90$  (compensated)

Internal reflector

High-purity aluminium

Exposed fastener

Stainless steel

#### Lamp

Lamp holder

E40

Available lamp and lamp power (W)

High pressure sodium lamp (HSE):1000W

Metal halide lamp (HIE):1000W

Note: HPI European standard ballast is available in general

#### Rated voltage

230V AC 50Hz (60Hz is optional)

#### Earthing protection

M5 (internal & external earth bolts)

#### Degree of protection

IP66

#### Ambient temperature

-20°C~+55°C

#### Terminal

3 x 1.5~2.5mm<sup>2</sup> (L+N+PE)

#### Cable entries

1 x M25 x 1.5

#### Cable gland

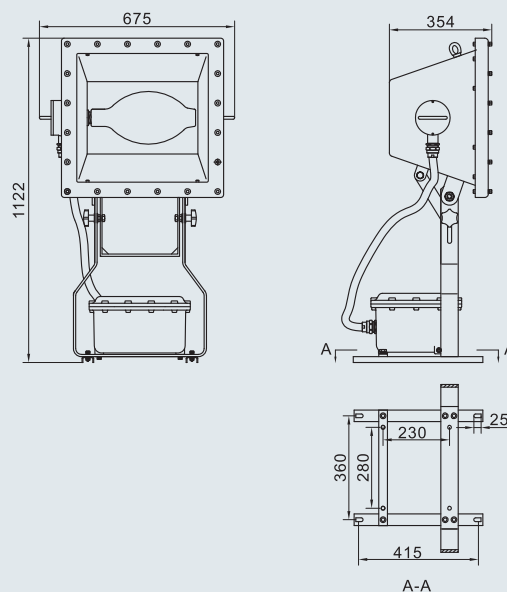
The cable between floodlight and ballast through BNG-M25 x 1.5(M)/M25 x 1.5(M) explosion-proof flexible conduit (length: 1000 mm); One explosion-proof cable gland (DQM-II-M25 x 1.5, Ex d, brass, armored, cable wiring)

#### Available cable outer diameter

Φ 10~Φ 14 (mm)



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



## Floodlights

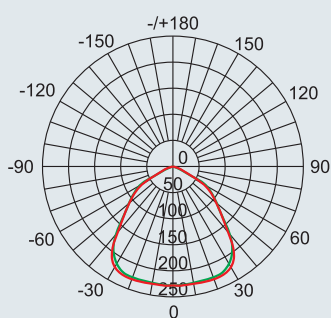
### BAT53 Series Explosion-proof Floodlights

#### Photometric data

##### BAT53-125-□□□

Rated luminous flux

70W Metal halide lamp: 5000 lm  
 100W Metal halide lamp: 9000 lm  
 150W Metal halide lamp: 13500 lm  
 70W High pressure sodium lamp: 6600 lm  
 100W High pressure sodium lamp: 10200 lm  
 80W High pressure mercury lamp: 3800 lm  
 125W High pressure mercury lamp: 6300 lm  
 The data from Philips lamp

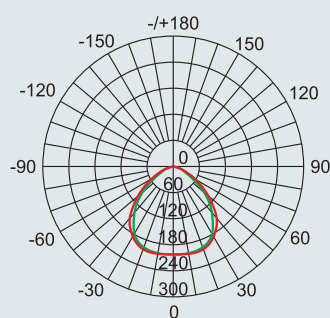


cd/1000lm  
 — C0/180  
 — C90/270

##### BAT53-250-□□□

Rated luminous flux

175W Metal halide lamp: 16000 lm  
 250W Metal halide lamp: 23500 lm  
 150W High pressure sodium lamp: 18000 lm  
 250W High pressure sodium lamp: 33200 lm  
 175W High pressure mercury lamp: 7350 lm  
 250W High pressure mercury lamp: 13000 lm  
 The data from Philips lamp

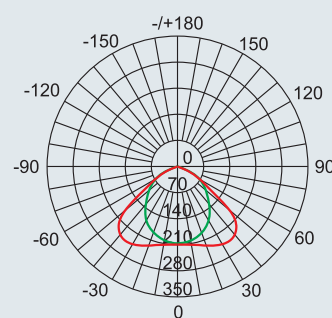


cd/1000lm  
 — C0/180  
 — C90/270

##### BAT53-400-□□□

Rated luminous flux


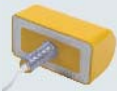


400W Metal halide lamp: 41000 lm  
 400W High pressure sodium lamp: 56500 lm  
 The data from Philips lamp



cd/1000lm  
 — C0/180  
 — C90/270

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

#### Accessories

Picture	Name	Ordering code	Weight (kg)
	Explosion-proof electronic trigger (125, 250, 400 type)	61034	0.30
	125 Explosion-proof capacitor	53012	0.45
	250 Explosion-proof capacitor	53013	0.45
	400 Explosion-proof capacitor	53014	0.55
	125 Movable support	53015	1.80
	250 Movable support	53016	2.35

**Note:** Ballast see P1/19

