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 Alloy, powder coated surface, yellow (RAL1021).
- Toughened glass cover resistant to temperature changes.

Catalogue number logic

BAT53 - □- □ □ □

- Mounting
  - S: street lamp type (only for BAT53-250 type, See P2/130)
  - Y: movable type
  - G: fixed type
- Lamp power (W)
- Lamp
  - HIE: Metal halide lamp
  - HSE: High pressure sodium lamp
  - HME: High pressure mercury lamp
- Enclosure type: 125, 250, 400, 1000
- Explosion-proof floodlights

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	250	150, 250	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

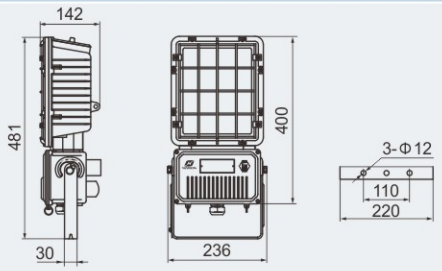
Technical data

Explosion-proof floodlights	BAT53-125-□□□
Explosion protection	
Global (IECEx)	IECEx CQM 13.0037X
Gas and dust	Ex d e IIB T□[1)] Gb Ex tb IIIC T□[1)] Db IP66
Europe (ATEX)	EPT 18 ATEX 2930X
Gas and dust	⟨Ex⟩ II 2 G Ex db e IIB T□[1)] Gb ⟨Ex⟩ II 2 D Ex tb IIIC T□[1)] Db IP66
	[1)] See Selection table
Certificates	IECEx; ATEX; CU-TR
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31
Material	
Enclosure	Copper-free Aluminium Alloy, 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
Power factor	COSΦ ≥0.90 (compensated)
Exposed fastener	Stainless steel
Lamp	
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
Rated voltage	220~240V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	-60℃~+55℃
Terminal	3 x 1.5~2.5mm² (L+N+PE)
Cable entries	2 x Φ21: 1 x M20 x 1.5 cable gland (DQM-I Ex e),1 x M20 x 1.5 plug
Available cable outer diameter	Φ5~Φ10 (mm)

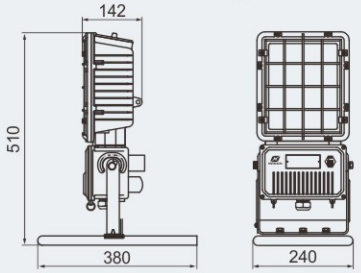
Selection table

Lamp	Lamp power (W)	Temperature classes	
		Gas	Dust
HIE	70	T156℃	T156℃
HSE	70	T156℃	T156℃
HSE	100	T185℃	T185℃
HIE	100	T181℃	T181℃
HIE	150	T190℃	T190℃
HME	80	T163℃	T163℃
HME	125	T209℃	T209℃

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



G: fixed type



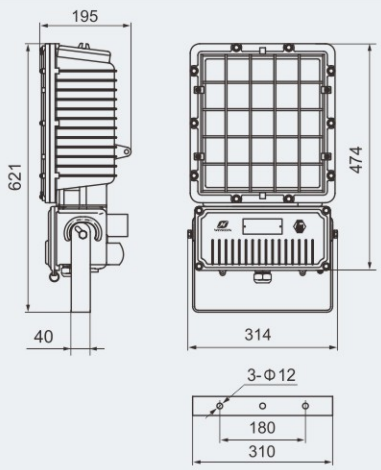
Y: movable type

Floodlights
BAT53 Series Explosion-proof Floodlights

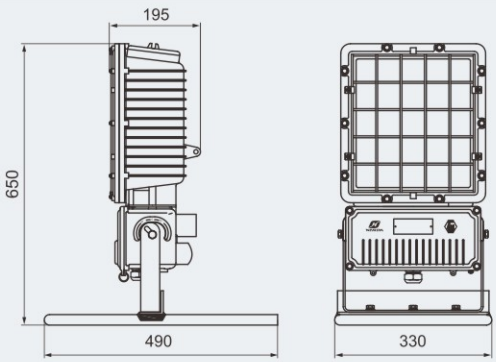
Technical data

Explosion-proof floodlights	BAT53-250-□□□
Explosion protection	
Global (IECEx)	IECEx CQM 07.0004
Gas and dust	Ex d e IIB T3 Gb
Europe (ATEX)	LCIE 05 ATEX 6143
Gas and dust	Ⓔx II 2 G Ex d e IIB T3
Certificates	IECEx; ATEX; CU-TR
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-7 IEC 60079-0, IEC 60079-1, IEC 60079-7
Material	
Enclosure	Copper-free Aluminium Alloy, 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
Power factor	COSΦ≥0.90 (compensated)
Exposed fastener	Stainless steel
Lamp	
Lamp holder	E40
Available lamp and lamp power (W)	High pressure sodium lamp (HSE): 150W, 250W High pressure mercury lamp (HME): 250W Metal halide lamp (HIE): 250W Note: HPI European standard ballast is available in general
Rated voltage	220~240V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	-20℃~+55℃
Terminal	3 x 1.5~2.5mm^2 (L+N+PE)
Cable entries	2 x Φ26: 1 x M25 x 1.5 cable gland (DQM-I Ex e),1 x M25 x 1.5 plug
Available cable outer diameter	Φ10~Φ14 (mm)

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



G: fixed type

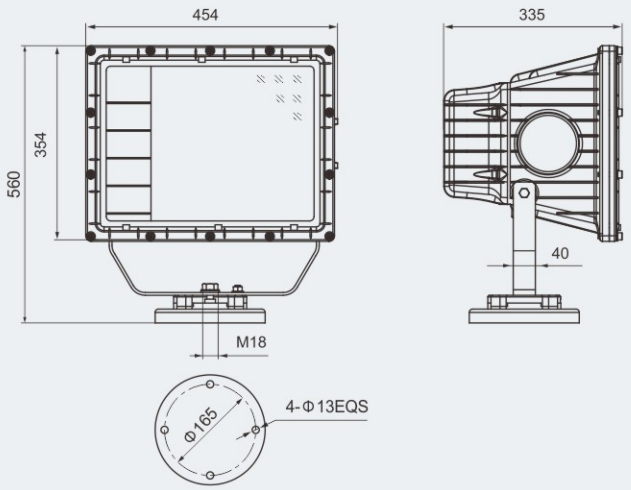


Y: movable type

Technical data

Explosion-proof floodlights	BAT53-400-□□□
Explosion protection	
Global (IECEx)	IECEx CQM 08.0014
Gas and dust	Ex d e IIB T3
Europe (ATEX)	LCIE 07 ATEX 6106
Gas and dust	Ⓔx II 2 G Ex d e IIB T3
Certificates	IECEx; ATEX
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-7 IEC 60079-0, IEC 60079-1, IEC 60079-7
Material	
Enclosure	Copper-free Aluminium Alloy, 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
Power factor	COSφ ≥0.90 (compensated)
Exposed fastener	Stainless steel
Wire guard (optional)	Powder coated carbon steel, white
Lamp	
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
Rated voltage	220~240V AC 50Hz (60Hz is optional)
Earthing protection	M5 (internal & external earth bolts)
Degree of protection	IP66
Ambient temperature	-20℃~+55℃
Terminal	3 x 1.5~4mm² (L+N+PE)
Cable entries	2 x M25 x 1.5: 1 x M25 x 1.5 cable gland (DQM-I Ex e),1 x M25 x 1.5 plug
Available cable outer diameter	Φ10~Φ14 (mm)

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

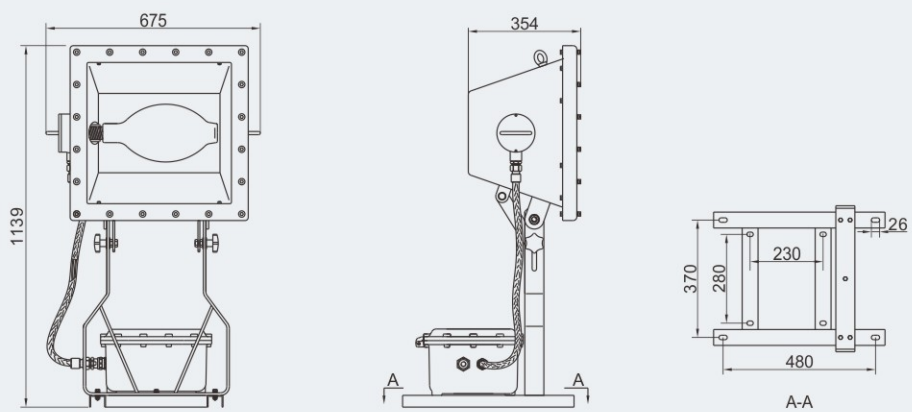


Floodlights
BAT53 Series Explosion-proof Floodlights

Technical data

Explosion-proof floodlights	BAT53-1000-□□□
Explosion protection	
Global (IECEx)	IECEx CQM 14.0066X
Gas and dust	Ex d IIB T3 Gb
	Ex tb IIIC T193℃ Db IP66
Europe (ATEX)	EPT 15 ATEX 1977X
Gas and dust	Ⓔx II 2 G Ex d IIB T3 Gb
	Ⓔx II 2 D Ex tb IIIC T193℃ Db IP66
Certificates	IECEx; ATEX; 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
Power factor	COSφ ≥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℃~+55℃
Terminal	3 x 1.5~4mm^2 (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	Φ10~Φ14 (mm)

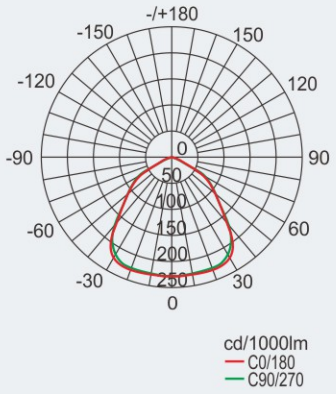
Dimension drawings (all dimensions in mm) - subject to alteration



Photometric data

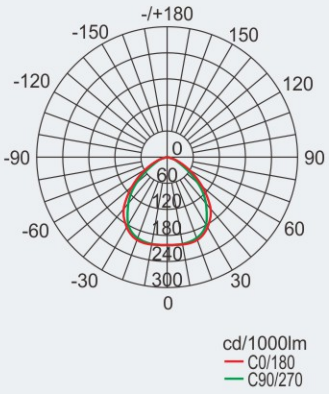
BAT53-125-□□□

Rated luminous flux
70W Metal halide lamp: 5800 lm
100W Metal halide lamp: 8700 lm
150W Metal halide lamp: 13500 lm
70W High pressure sodium lamp: 6600 lm
100W High pressure sodium lamp: 10700 lm
80W High pressure mercury lamp: 3800 lm
125W High pressure mercury lamp: 6300 lm
The data from Philips lamp



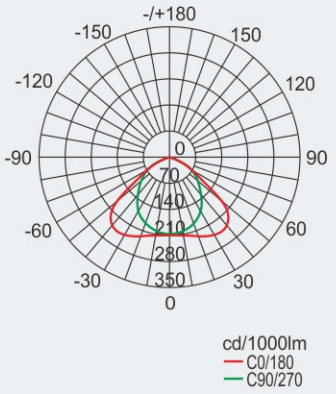
BAT53-250-□□□

Rated luminous flux
250W Metal halide lamp: 23200 lm
150W High pressure sodium lamp: 18000 lm
250W High pressure sodium lamp: 33200 lm
250W High pressure mercury lamp: 13000 lm
The data from Philips lamp



BAT53-400-□□□

Rated luminous flux
400W Metal halide lamp: 42500 lm
400W High pressure sodium lamp: 56500 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.

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 P1/21