

PS-ATEX-HIGHBAY

ATEX and IECEx certified LED high bay for hazardous areas

ZONES 1, 2, 21 AND 22

PRODUCT DESCRIPTION

PS-ATEX-HIGHBAY brings efficient LED light to hazardous areas where flammable gas, vapour or combustible dust may be present. The flameproof, dust-tight design is marked for gas Zones 1 and 2 and dust Zones 21 and 22, making it a straightforward replacement for older explosion-proof high bays in refineries, chemical plants, paint shops, grain stores and fuel depots.

- › ATEX and IECEx certified: Ex db IIB T5 Gb / Ex tb IIIC T95°C Db
- › 100 W or 200 W at 160 lm/W
- › IP65 and IK10 with tempered safety glass
- › 4 kV / 6 kV surge protection
- › Anti-corrosion powder-coated aluminium housing
- › Bracket rotates through 180° for precise aiming



ATEX
and IECEx



160 lm/W
Efficacy



IK10
Impact rated



5 Years
Warranty

APPLICATION: HAZARDOUS AREAS

Safe light where it matters most

Oil and gas sites, chemical processing, pharmaceutical plants, paint spray areas and grain or sugar handling all need lighting that cannot become an ignition source. PS-ATEX-HIGHBAY combines certified explosion protection with modern LED efficiency and a long service life.



Certified protection

ATEX II 2 G Ex db IIB T5 Gb and II 2 D Ex tb IIIC T95°C Db (TÜV 22 ATEX 8897 X), with IECEx TUR 22.0062X.



Lower energy use

160 lm/W. The 200 W model gives 32,000 lumens, replacing far higher wattage HID fittings.



Tough and safe

IK10 impact rating and tempered safety glass, in an IP65 dust and water protected housing.



Corrosion resistant

AkzoNobel anti-corrosion powder coating for chemical, coastal and offshore-type environments.



Surge protected

4 kV differential and 6 kV common mode. Do not add external surge protection: it would void the ATEX certificate.



Flexible mounting

Bracket rotates through 180° for precise aiming, with options for ceiling, wall and hook mounting.

CERTIFICATION



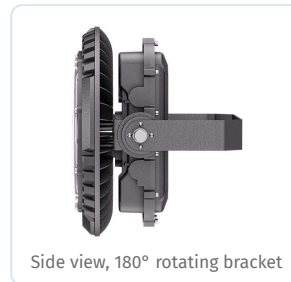
ATEX: TÜV 22 ATEX 8897 X. IECEx: IECEx TUR 22.0062X.

PS-ATEX-HIGHBAY Technical data

ATEX and IECEx certified LED high bay for hazardous areas

SPECIFICATION

Input voltage	100 to 277 V AC, 50/60 Hz
Power	100 W / 200 W
Luminous flux	16,000 lm (100 W), 32,000 lm (200 W)
Efficacy	160 lm/W
Driver	Meanwell
Colour temperature	5000K (100 W); 4000K or 5000K (200 W)
CRI	Ra >80
Beam angle	100°
ATEX marking	II 2 G Ex db IIB T5 Gb II 2 D Ex tb IIIC T95°C Db TÜV 22 ATEX 8897 X
IECEx marking	Ex db IIB T5 Gb / Ex tb IIIC T95°C Db IECEx TUR 22.0062X
Hazardous zones	Gas: Zone 1, Zone 2. Dust: Zone 21, Zone 22
IP / IK rating	IP65 / IK10
Surge protection	4 kV DM / 6 kV CM
Operating temperature	-30°C to +48°C
Lifetime	L70B10 >108,000 h
Housing	Aluminium, anti-corrosion coat, RAL7001
Cable gland	M25 x 1.5 single compression; cable 3 x 2.5 mm ² , 0.8 m
Dimensions	356 x 356 x 282 mm
Weight	9.71 kg (100 W), 9.93 kg (200 W)
Warranty	5 years



TECHNICAL SPECIFICATIONS

Product	Power	Lumen output	Efficacy	CCT	Beam	Dimensions / weight
PS-ATEX-HIGHBAY 100	100 W	16,000 lm	160 lm/W	5000K	100°	356 x 356 x 282 mm, 9.71 kg
PS-ATEX-HIGHBAY 200 LARGEST	200 W	32,000 lm	160 lm/W	4000K / 5000K	100°	356 x 356 x 282 mm, 9.93 kg

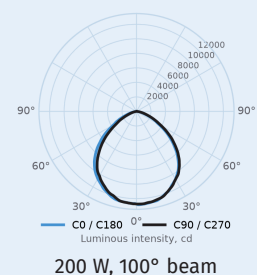
OPTIONS AND ACCESSORIES

- › Mounting bracket (rotates 180°)
- › Suspension mounting
- › Double compression and armoured cable glands
- › 60, 80, 120 and 150 W versions on request

IDEAL FOR

- › Refineries, fuel depots and gas plants
- › Chemical and pharmaceutical processing
- › Paint spray booths and solvent stores
- › Grain, flour and sugar handling (dust)

LIGHT DISTRIBUTION



5 YEARS
WARRANTY

Every Polaris Light fitting carries a 5-year warranty. Ask us for a hazardous area lighting design and a compliant replacement plan for existing fittings.