



Iridium – lighting the road ahead

Iridium SGS254/454

Iridium is a family of road-lighting luminaires designed for three main applications – residential areas and minor roads, major roads and motorways. Its modularity allows the integration of optical or electronic components in order to adapt to the changing demands of road lighting, e.g. the growing demand for white light and controls.

Iridium ensures low cost of ownership thanks to its superior optics, dimming and Telemangement capability, and ease of installation and maintenance. The Iridium luminaire family includes MASTERColour CDM Elite MW, CosmoPolis and LED-enabled versions. It comes in four different sizes – for mounting heights from 3.5 to 12 meters – and is suitable for side-entry and post-top mounting. A full range of brackets ensures visual consistency between the column and the gently rounded luminaire, making Iridium a total solution. Each Iridium luminaire is fully recyclable; only the light source and driver have to be recycled separately.

Benefits

- The latest evolution of road lighting that takes a significant step towards a 'Green City light solution'
- Enables outdoor lighting authorities to introduce the most advanced green innovations, while also ensuring the best possible Total Cost of Ownership
- Worldwide design acceptance and high degree of modularity, with a wide range of sizes, materials and options

Features

- Family includes MASTERColour CDM Elite MW, CosmoPolis and LED-enabled versions
- Superior optics
- Dimming and Telemangement capability
- Four different sizes, suitable for side-entry and post-top mounting; also full range of brackets
- Fully recyclable; only light source and driver have to be recycled separately

Iridium SGS254/454

Application

- Industrial areas
- Roads
- Crossings
- Roundabouts

Specifications

Type	SGS254 (glass-fiber-reinforced polyester canopy version) SGS454 (aluminum canopy version)
Light source	HID: – 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250, 400 W – 1 x SON / E40 / 150, 250, 400 W – 1 x MASTER CDM-T Elite MW / PGZ18 / 210, 315 W Induction lamp system: – 1 x MASTER QL system / 165 W
Lamp included	Yes (K) No
Gear and compensation	Electro magnetic (low loss), 230 or 240 V / 50 Hz: – Inductive (IN) – Capacitive (C) Electronic, 220 – 240 V / 50 – 60 Hz: – Electronic (EB)
Optic	Closed T-pot (CP) "Opti-C" with double IP-66, simplify cleaning of the optic and improve lamp position precision Facetted open T-pot (TP) "Opti-O" easy lamp access concept Facetted open CT-pot (OR) "Optic-O" easy lamp access concept (CDM-T Elite MW lamp version)

Specifications

Materials and finishing	Canopy: glass-fiber-reinforced polyester with In-Mould Coating* (SGS254) or aluminum (SGS454) Frame: sand-blasted die-cast aluminum Optical covers: toughened glass IK08 Reflector: high-purity aluminum Gear-tray housing: polyamide Front clip: stainless steel
Color	Grey (GR) Other RAL or AKZO colors available on request (e.g. 7035) Metallized frame (FM) for better appearance during life of the product
Installation	Side-entry mounting: lateral entry Ø 34 / 60 mm Post-top mounting: axial entry Ø 60 / 76 mm (60/76) Recommended mounting height: 15 m Standard tilt angle post top: 5° Adjustable tilt angle: n/a Adjustable light distribution: 7 positions Max windage area: 0.20 m Max SCx values by side: 0.063 m

Optical cover	Glass bowl (GB) better spacing and better night preservation solution Glass flat (FG), reduce glare and improve night nuisance Glass flat with DynaClean coating (FGD)
Ignitor	Series (SI) Series, self-stopping (SS) Series, digital ignitor (SUD) Semi-parallel (SP) Semi-parallel, self-stopping (ST) Semi-parallel, digital ignitor (SND)
Options	Lighting controls: Chronosense (CH) Light regulation: – Dimming switch (SW) – Dimming switch with reverse function (SWR) Photocell: – NEMA socket (P1), Minicell (P3) Filter coil (F) included Fuse (FU) included Safety cable (SC) for plastic version, reduce maintenance risks

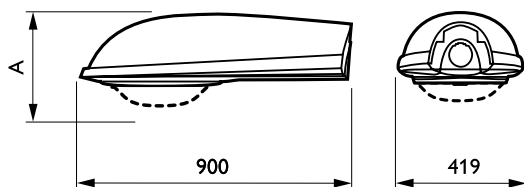
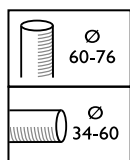
Maintenance	Tool-less opening from above, and disconnection of plug and socket
Accessories	Dedicated mast and wall brackets available for different mounting possibilities
Remarks	* In-Mould Coating (IMC) prevents the glass fibers becoming exposed CP optic has double IP66 classification for lamp compartment Compliant with EN 60598-2-3
Main applications	Industrial areas, roads, crossings, roundabouts

Iridium SGS254/454

Versions



Dimensional drawing



Product	A
SGS454 SON-T250W K II CP FG AL 7035 SND	247 mm
SGS254 SON-T400W K II CP FG GR SND	247 mm
SGS254 SON-T250W K II CP FG GR SND	247 mm

Approval and Application

Mech. impact protection code	IK08
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General Information

CE mark	CE mark
Coloured frame	-
Coating	-
Optical cover/lens type	FG
Gear	CONV
Lamp family code	SON-T
Number of light sources	1
Optic type	Closed T-POT

Light Technical

Standard tilt angle side entry	5°
Standard tilt angle posttop	5°

General Information

Order Code	Full Product Name	Parts colour	Lamp power	Product Family
84241700	SGS254 SON-T250W K II CP FG GR SND	-	250 W	SGS254
84245500	SGS254 SON-T400W K II CP FG GR SND	-	400 W	SGS254
84959100	SGS454 SON-T250W K II CP FG AL 7035 SND	All parts colored	250 W	SGS454

Mechanical and Housing

Order Code	Full Product Name	Colour
84241700	SGS254 SON-T250W K II CP FG GR SND	Gray
84245500	SGS254 SON-T400W K II CP FG GR SND	Gray

Order Code	Full Product Name	Colour
84959100	SGS454 SON-T250W K II CP FG AL 7035 SND	-

