



# 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

- GRP and aluminium body options
- 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
- Three 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

### Application

- Traffic routes
- Residential roads and streets

### Specifications

## Iridium SGS254/454

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

## Specifications

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

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

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

# Iridium SGS254/454

## Versions

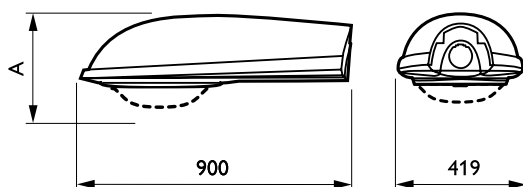
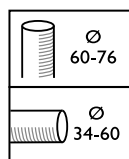


Iridium SGS254/454 road-lighting luminaire with glass bowl (GB)



Iridium SGS254/454 road-lighting luminaire with flat glass (FG) or flat glass with DynaClean coating (FGD)

## Dimensional drawing



| Product                            | A      |
|------------------------------------|--------|
| SGS254 SON-T400W K I TP GB GR SND  | 319 mm |
| SGS254 SON-T150W K II CP GB GR SND | 319 mm |
| SGS254 SON-T150W K II CP FG GR SND | 247 mm |
| SGS254 SON-T250W K II TP GB GR SND | 319 mm |
| SGS254 SON-T400W K II CP FG GR SND | 247 mm |
| SGS254 SON-T400W K II CP GB GR SND | 319 mm |
| SGS254 SON-T250W K II CP FG GR SND | 247 mm |
| SGS254 SON-T250W K II CP GB GR SND | 319 mm |
| SGS254 SON-T250W II CP GB GR SND   | 319 mm |
| SGS254 SON-T400W II TP GB GR SND   | 319 mm |
| SGS254 SON-T250W II TP GB GR SND   | 319 mm |

### General Information

|                     |        |
|---------------------|--------|
| Lamp family code    | SON-T  |
| Product Family Code | SGS254 |

### Mechanical and Housing

|        |      |
|--------|------|
| Colour | Grey |
|--------|------|

## Approval and Application

| Order Code   | Full Product Name                  | Mech. impact protection code |
|--------------|------------------------------------|------------------------------|
| 910401873818 | SGS254 SON-T250W II TP GB GR SND   | IK08                         |
| 910401874318 | SGS254 SON-T400W II TP GB GR SND   | -                            |
| 910401875818 | SGS254 SON-T250W II CP GB GR SND   | -                            |
| 910502123018 | SGS254 SON-T250W K II CP GB GR SND | IK08                         |
| 910502123418 | SGS254 SON-T400W K II CP GB GR SND | IK08                         |
| 910502136618 | SGS254 SON-T250W K II TP GB GR SND | -                            |
| 910502137018 | SGS254 SON-T400W K II TP GB GR SND | -                            |
| 910502156718 | SGS254 SON-T150W K II CP GB GR SND | IK08                         |
| 910502170618 | SGS254 SON-T250W K I TP GB GR SND  | -                            |

| Order Code   | Full Product Name                  | Mech. impact protection code |
|--------------|------------------------------------|------------------------------|
| 910502170818 | SGS254 SON-T400W K I TP GB GR SND  | IK08                         |
| 910502122918 | SGS254 SON-T250W K II TP FG GR SND | -                            |
| 910502123118 | SGS254 SON-T250W K II CP FG GR SND | IK08                         |
| 910502123518 | SGS254 SON-T400W K II CP FG GR SND | IK08                         |
| 910502136318 | SGS254 SON-T250W K II CP FG GR SND | -                            |
| 910502136518 | SGS254 SON-T250W K II TP FG GR SND | -                            |
| 910502136918 | SGS254 SON-T400W K II TP FG GR SND | -                            |
| 910502156618 | SGS254 SON-T150W K II CP FG GR SND | IK08                         |

## General Information (1/2)

## Iridium SGS254/454

| Order Code   | Full Product Name                  | CE mark | Coloured frame | Parts colour | Coating | Optical cover/lens type | ENEC mark | Gear |
|--------------|------------------------------------|---------|----------------|--------------|---------|-------------------------|-----------|------|
| 910401873818 | SGS254 SON-T250W II TP GB GR SND   | CE mark | -              | -            | -       | GB                      | ENEC mark | CONV |
| 910401874318 | SGS254 SON-T400W II TP GB GR SND   | -       | -              | -            | -       | GB                      | -         | -    |
| 910401875818 | SGS254 SON-T250W II CP GB GR SND   | -       | -              | -            | -       | GB                      | -         | -    |
| 910502123018 | SGS254 SON-T250W K II CP GB GR SND | CE mark | -              | -            | -       | GB                      | ENEC mark | CONV |
| 910502123418 | SGS254 SON-T400W K II CP GB GR SND | CE mark | -              | -            | -       | GB                      | ENEC mark | CONV |
| 910502136618 | SGS254 SON-T250W K II TP GB GR SND | -       | -              | -            | -       | GB                      | -         | -    |
| 910502137018 | SGS254 SON-T400W K II TP GB GR SND | -       | -              | -            | -       | GB                      | -         | -    |
| 910502156718 | SGS254 SON-T150W K II CP GB GR SND | CE mark | -              | -            | -       | GB                      | ENEC mark | CONV |
| 910502170618 | SGS254 SON-T250W K I TP GB GR SND  | -       | -              | -            | -       | GB                      | -         | -    |
| 910502170818 | SGS254 SON-T400W K I TP GB GR SND  | CE mark | -              | -            | -       | GB                      | ENEC mark | CONV |
| 910502122918 | SGS254 SON-T250W K II TP FG GR SND | -       | -              | -            | -       | FG                      | -         | -    |
| 910502123118 | SGS254 SON-T250W K II CP FG GR SND | CE mark | -              | -            | -       | FG                      | ENEC mark | CONV |
| 910502123518 | SGS254 SON-T400W K II CP FG GR SND | CE mark | -              | -            | -       | FG                      | ENEC mark | CONV |
| 910502136318 | SGS254 SON-T250W K II CP FG GR SND | -       | -              | -            | -       | FG                      | -         | -    |
| 910502136518 | SGS254 SON-T250W K II TP FG GR SND | -       | -              | -            | -       | FG                      | -         | -    |
| 910502136918 | SGS254 SON-T400W K II TP FG GR SND | -       | -              | -            | -       | FG                      | -         | -    |
| 910502156618 | SGS254 SON-T150W K II CP FG GR SND | CE mark | -              | -            | -       | FG                      | ENEC mark | CONV |

### General Information (2/2)

| Order Code   | Full Product Name                  | Number of light |         | Optic type   |
|--------------|------------------------------------|-----------------|---------|--------------|
|              |                                    | Lamp power      | sources |              |
| 910401873818 | SGS254 SON-T250W II TP GB GR SND   | 250 W           | 1       | Open T-POT   |
| 910401874318 | SGS254 SON-T400W II TP GB GR SND   | 400 W           | -       | Open T-POT   |
| 910401875818 | SGS254 SON-T250W II CP GB GR SND   | 250 W           | -       | Closed T-POT |
| 910502123018 | SGS254 SON-T250W K II CP GB GR SND | 250 W           | 1       | Closed T-POT |
| 910502123418 | SGS254 SON-T400W K II CP GB GR SND | 400 W           | 1       | Closed T-POT |
| 910502136618 | SGS254 SON-T250W K II TP GB GR SND | 250 W           | -       | Open T-POT   |
| 910502137018 | SGS254 SON-T400W K II TP GB GR SND | 400 W           | -       | Open T-POT   |
| 910502156718 | SGS254 SON-T150W K II CP GB GR SND | 150 W           | 1       | Closed T-POT |
| 910502170618 | SGS254 SON-T250W K I TP GB GR SND  | 250 W           | -       | Open T-POT   |

| Order Code   | Full Product Name                  | Number of light |         | Optic type   |
|--------------|------------------------------------|-----------------|---------|--------------|
|              |                                    | Lamp power      | sources |              |
| 910502170818 | SGS254 SON-T400W K I TP GB GR SND  | 400 W           | 1       | Open T-POT   |
| 910502122918 | SGS254 SON-T250W K II TP FG GR SND | 250 W           | -       | Open T-POT   |
| 910502123118 | SGS254 SON-T250W K II CP FG GR SND | 250 W           | 1       | Closed T-POT |
| 910502123518 | SGS254 SON-T400W K II CP FG GR SND | 400 W           | 1       | Closed T-POT |
| 910502136318 | SGS254 SON-T250W K II CP FG GR SND | 250 W           | -       | Closed T-POT |
| 910502136518 | SGS254 SON-T250W K II TP FG GR SND | 250 W           | -       | Open T-POT   |
| 910502136918 | SGS254 SON-T400W K II TP FG GR SND | 400 W           | -       | Open T-POT   |
| 910502156618 | SGS254 SON-T150W K II CP FG GR SND | 150 W           | 1       | Closed T-POT |

### Light Technical

| Order Code   | Full Product Name                  | Standard tilt    |               |
|--------------|------------------------------------|------------------|---------------|
|              |                                    | angle side entry | angle posttop |
| 910401873818 | SGS254 SON-T250W II TP GB GR SND   | 5°               | 5°            |
| 910401874318 | SGS254 SON-T400W II TP GB GR SND   | -                | -             |
| 910401875818 | SGS254 SON-T250W II CP GB GR SND   | -                | -             |
| 910502123018 | SGS254 SON-T250W K II CP GB GR SND | 5°               | 5°            |
| 910502123418 | SGS254 SON-T400W K II CP GB GR SND | 5°               | 5°            |

| Order Code   | Full Product Name                  | Standard tilt    |               |
|--------------|------------------------------------|------------------|---------------|
|              |                                    | angle side entry | angle posttop |
| 910502136618 | SGS254 SON-T250W K II TP GB GR SND | -                | -             |
| 910502137018 | SGS254 SON-T400W K II TP GB GR SND | -                | -             |
| 910502156718 | SGS254 SON-T150W K II CP GB GR SND | 5°               | 5°            |
| 910502170618 | SGS254 SON-T250W K I TP GB GR SND  | -                | -             |
| 910502170818 | SGS254 SON-T400W K I TP GB GR SND  | 5°               | 5°            |

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| Order Code   | Full Product Name                  | Standard tilt<br>angle side entry | Standard tilt<br>angle posttop |
|--------------|------------------------------------|-----------------------------------|--------------------------------|
| 910502122918 | SGS254 SON-T250W K II TP FG GR SND | -                                 | -                              |
| 910502123118 | SGS254 SON-T250W K II CP FG GR SND | 5°                                | 5°                             |
| 910502123518 | SGS254 SON-T400W K II CP FG GR SND | 5°                                | 5°                             |
| 910502136318 | SGS254 SON-T250W K II CP FG GR SND | -                                 | -                              |

| Order Code   | Full Product Name                  | Standard tilt<br>angle side entry | Standard tilt<br>angle posttop |
|--------------|------------------------------------|-----------------------------------|--------------------------------|
| 910502136518 | SGS254 SON-T250W K II TP FG GR SND | -                                 | -                              |
| 910502136918 | SGS254 SON-T400W K II TP FG GR SND | -                                 | -                              |
| 910502156618 | SGS254 SON-T150W K II CP FG GR SND | 5°                                | 5°                             |

