



Iridium – lighting the road ahead

Iridium SGS252/452

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 SGS252/452

Application

- Residential and industrial areas
- Roads
- Bicycle paths

Specifications

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|------------------------------|---|
| Type | SGS252 (glass-fiber-reinforced polyester canopy version) SGS452 (aluminum canopy version) |
| Light source | HID: <ul style="list-style-type: none">- 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90 W- 1 x MASTER CityWhite CDO-TT / E27 / 70 W- 1 x MASTER CityWhite CDO-TT / E40 / 100 W- 1 x MASTERColour CDM-TT / E27 / 35, 70 W- 1 x CDO-ET / E27 / 70 W- 1 x CDO-ET / E40 / 100 W- 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W- 1 x MASTER SON-T PIA Plus / E40 / 100 W- 1 x SON / E27 / 50, 70 W- 1 x SON / E40 / 100 W- 1 x SON-I / E27 / 50, 70 W- 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W Compact fluorescent: <ul style="list-style-type: none">- 1 x MASTER PL-T 4 Pin / GX24q-4 or 5* / 32, 42, 57 W- *depends on wattage |
| Lamp included | Yes (K) No |
| Gear and compensation | Electro magnetic (low loss), 230 or 240 V / 50 Hz: <ul style="list-style-type: none">- Inductive (IN)- Capacitive (C) Electronic, 220 - 240 V / 50 - 60 Hz: <ul style="list-style-type: none">- Electronic (EB) |

Specifications

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| Options | Lighting controls: Chronosense (CH) Light regulation: <ul style="list-style-type: none">- Lumistep for CosmoPolis (LS-6 / 8 / 10)- Dimming switch (SW)- Dimming switch with reverse function (SWR)- Dimming via SDU01S (D4)- Dimming via SDU11S (D5)- Dimming via external communication 1-10Vdc (D7) Photocell: NEMA socket (P1), Minicell (P3) Filter coil (F) included Fuse (FU) included Knife-connector (KC) included Safety cable (SC) for plastic version, reduce maintenance risks |
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| Optic | Closed CT-POT (CR) optic for CosmoPolis (all ME-classes), CDO and SON lamps, "Opti-C" concept with double IP-66, simplify cleaning of the optic and improve lamp position precision Open CT-POT (OR) "Opti-O" easy lamp access for CDO and SON lamps Closed R60 (CC) optic for CosmoPolis (S-classes and low ME-classes) "Opti-C" Cycle path optic (CYC). Only for GB and PC. Optimize for CosmoPolis low S-classes. Internal tilt possibility to improve spacing and reduce glare |
| Optical cover | Polycarbonate bowl (PC) vandal-resistant 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) |

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| Materials and finishing | Canopy: glass-fiber-reinforced polyester with In-Mould Coating* (SGS252) or aluminum (SGS452) Frame: sand-blasted die-cast aluminum Optical covers: polycarbonate bowl, UV-stabilized or 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 |

Iridium SGS252/452

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| Installation | Side-entry mounting: lateral entry Ø 34 / 60 mm |
| | Post-top mounting: axial entry Ø 60 / 76 mm (60/76) |
| | Recommended mounting height: 6 - 8 m |
| | Standard tilt angle post top: 5° |
| | Adjustable tilt angle: n/a |
| | Adjustable tilt optic: only in CYC-optic two positions; 0, -5° |
| | Adjustable light distribution: 7 positions |
| Maintenance | Max windage area: 0.12 m |
| | Max SCx values by side: 0.059 m |
| | Tool-less opening from above, and disconnection of plug and socket |
| Accessories | Front and back louvers, ZGS252 L-FRONT, resp L-Back |
| | Dedicated mast, wall and pole brackets and deco-elements available for different mounting possibilities |

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| Remarks | * In-Mould Coating (IMC) prevents the glass fibers becoming exposed |
| | The integration of the CosmoPolis system (CPO-TW lamp, the high-efficient reflector, electronic ballast), a better spacing (in new installations) and less energy consumption (in new and existing installations) can be obtained |
| | CR optic has double IP66 classification for lamp compartment |
| | Compliant with EN 60598-2-3 |
| Main applications | Residential and industrial areas, roads, bicycle paths |

Versions

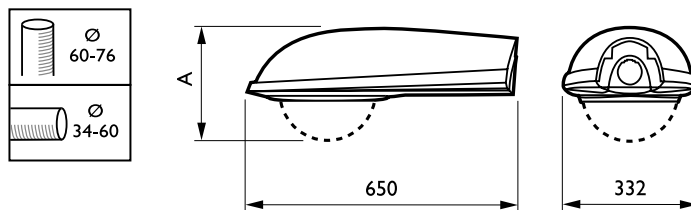


Iridium SGS252/452, svítidlo
pouličního osvětlení s rovným
sklem (FG)



Iridium SGS252/452, svítidlo
veřejného osvětlení se skleněným
krytem (GB)

Dimensional drawing



| Product | A |
|-----------------------------------|--------|
| SGS452 SON-T70W K II CR FG GR SND | 187 mm |
| SGS452 SON-T70W K II OR GB GR SND | 219 mm |

Product details



"Opti-O", where the reflector is attached to the canopy. This facilitates maintenance because it provides easy access.



Wall mounting bracket (ZRS250 MBW)



Single bracket (ZRS250 MBS)



Double bracket (ZRS250 MBT)



"Opti-C", where the reflector forms one unit with the bowl, and the lamp holder is attached to the reflector.

| Approval and Application | |
|--------------------------------|---------|
| Mech. impact protection code | IK08 |
| General Information | |
| CE mark | CE mark |
| Coloured frame | - |
| Parts colour | - |
| Filter coil | - |
| Gear | CONV |
| Lamp family code | SON-T |
| Lamp power | 70 W |
| Number of light sources | 1 |
| Product Family Code | SGS452 |
| Light Technical | |
| Standard tilt angle side entry | 5° |
| Standard tilt angle posttop | 5° |
| Mechanical and Housing | |
| Colour | Gray |

| General Information | | | |
|---------------------|-----------------------------------|-------------------------|---------------|
| Order Code | Full Product Name | Optical cover/lens type | Optic type |
| 84321600 | SGS452 SON-T70W K II CR FG GR SND | FG | Closed CT-POT |
| 84325400 | SGS452 SON-T70W K II OR GB GR SND | GB | Open CT-POT |

