



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 Telemanagement 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 Telemanagement 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

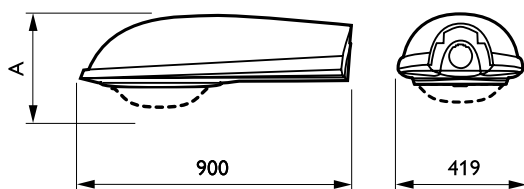
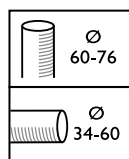


Iridium SGS254/454 road-lighting luminaire with glass bowl (GB)



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-T250W II TP GB GR SND	319 mm
SGS454 SON-T400W K II CP FG AL 7035 SND	247 mm
SGS454 SON-T400W K II CP GB AL 7035 SND	319 mm
SGS454 SON-T250W K II CP FG AL 7035 SND	247 mm
SGS454 SON-T250W K II CP GB AL 7035 SND	319 mm
SGS454 SON-T150W K II CP GB AL 7035 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

General Information

Lamp family code	SON-T
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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
910502156918	SGS454 SON-T150W K II CP GB AL 7035 SND	IK08
910502157018	SGS454 SON-T250W K II CP GB AL 7035 SND	IK08
910502157218	SGS454 SON-T400W K II CP GB AL 7035 SND	IK08

Order Code	Full Product Name	Mech. impact protection code
910502170618	SGS254 SON-T250W K I TP GB GR SND	-
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
910502157118	SGS454 SON-T250W K II CP FG AL 7035 SND	IK08

Iridium SGS254/454

Order Code	Full Product Name	Mech. impact protection code
910502157318	SGS454 SON-T400W K II CP FG AL 7035 SND	IK08

General Information (1/2)

Order Code	Full Product Name	CE mark	Colored frame	Parts color	Coating	Optical cover/lens type	Gear	Lamp power
910401873818	SGS254 SON-T250W II TP GB GR SND	CE mark	-	-	-	Glass bowl/cover	CONV	250 W
910401874318	SGS254 SON-T400W II TP GB GR SND	-	-	-	-	Glass bowl/cover	-	400 W
910401875818	SGS254 SON-T250W II CP GB GR SND	-	-	-	-	Glass bowl/cover	-	250 W
910502123018	SGS254 SON-T250W K II CP GB GR SND	CE mark	-	-	-	Glass bowl/cover	CONV	250 W
910502123418	SGS254 SON-T400W K II CP GB GR SND	CE mark	-	-	-	Glass bowl/cover	CONV	400 W
910502136618	SGS254 SON-T250W K II TP GB GR SND	-	-	-	-	Glass bowl/cover	-	250 W
910502137018	SGS254 SON-T400W K II TP GB GR SND	-	-	-	-	Glass bowl/cover	-	400 W
910502156718	SGS254 SON-T150W K II CP GB GR SND	CE mark	-	-	-	Glass bowl/cover	CONV	150 W
910502156918	SGS454 SON-T150W K II CP GB AL 7035 SND	CE mark	-	All parts colored	-	Glass bowl/cover	CONV	150 W
910502157018	SGS454 SON-T250W K II CP GB AL 7035 SND	CE mark	-	All parts colored	-	Glass bowl/cover	CONV	250 W
910502157218	SGS454 SON-T400W K II CP GB AL 7035 SND	CE mark	-	All parts colored	-	Glass bowl/cover	CONV	400 W
910502170618	SGS254 SON-T250W K I TP GB GR SND	-	-	-	-	Glass bowl/cover	-	250 W
910502170818	SGS254 SON-T400W K I TP GB GR SND	CE mark	-	-	-	Glass bowl/cover	CONV	400 W
910502122918	SGS254 SON-T250W K II TP FG GR SND	-	-	-	-	Flat glass	-	250 W
910502123118	SGS254 SON-T250W K II CP FG GR SND	CE mark	-	-	-	Flat glass	CONV	250 W
910502123518	SGS254 SON-T400W K II CP FG GR SND	CE mark	-	-	-	Flat glass	CONV	400 W
910502136318	SGS254 SON-T250W K II CP FG GR SND	-	-	-	-	Flat glass	-	250 W
910502136518	SGS254 SON-T250W K II TP FG GR SND	-	-	-	-	Flat glass	-	250 W
910502136918	SGS254 SON-T400W K II TP FG GR SND	-	-	-	-	Flat glass	-	400 W
910502156618	SGS254 SON-T150W K II CP FG GR SND	CE mark	-	-	-	Flat glass	CONV	150 W
910502157118	SGS454 SON-T250W K II CP FG AL 7035 SND	CE mark	-	All parts colored	-	Flat glass	CONV	250 W
910502157318	SGS454 SON-T400W K II CP FG AL 7035 SND	CE mark	-	All parts colored	-	Flat glass	CONV	400 W

General Information (2/2)

Order Code	Full Product Name	Number of light sources	Optic type	Product Family Code
910401873818	SGS254 SON-T250W II TP GB GR SND	1 pc	Open T-POT	SGS254
910401874318	SGS254 SON-T400W II TP GB GR SND	-	Open T-POT	SGS254
910401875818	SGS254 SON-T250W II CP GB GR SND	-	Closed T-POT	SGS254
910502123018	SGS254 SON-T250W K II CP GB GR SND	1 pc	Closed T-POT	SGS254
910502123418	SGS254 SON-T400W K II CP GB GR SND	1 pc	Closed T-POT	SGS254
910502136618	SGS254 SON-T250W K II TP GB GR SND	-	Open T-POT	SGS254
910502137018	SGS254 SON-T400W K II TP GB GR SND	-	Open T-POT	SGS254
910502156718	SGS254 SON-T150W K II CP GB GR SND	1 pc	Closed T-POT	SGS254

Order Code	Full Product Name	Number of light sources	Optic type	Product Family Code
910502156918	SGS454 SON-T150W K II CP GB AL 7035 SND	1 pc	Closed T-POT	SGS454
910502157018	SGS454 SON-T250W K II CP GB AL 7035 SND	1 pc	Closed T-POT	SGS454
910502157218	SGS454 SON-T400W K II CP GB AL 7035 SND	1 pc	Closed T-POT	SGS454
910502170618	SGS254 SON-T250W K I TP GB GR SND	-	Open T-POT	SGS254
910502170818	SGS254 SON-T400W K I TP GB GR SND	1 pc	Open T-POT	SGS254
910502122918	SGS254 SON-T250W K II TP FG GR SND	-	Open T-POT	SGS254
910502123118	SGS254 SON-T250W K II CP FG GR SND	1 pc	Closed T-POT	SGS254
910502123518	SGS254 SON-T400W K II CP FG GR SND	1 pc	Closed T-POT	SGS254

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Order Code	Full Product Name	Number of light sources	Optic type	Product Family Code
910502136318	SGS254 SON-T250W K II CP FG GR SND	-	Closed T-POT	SGS254
910502136518	SGS254 SON-T250W K II TP FG GR SND	-	Open T-POT	SGS254
910502136918	SGS254 SON-T400W K II TP FG GR SND	-	Open T-POT	SGS254

Order Code	Full Product Name	Number of light sources	Optic type	Product Family Code
910502156618	SGS254 SON-T150W K II CP FG GR SND	1 pc	Closed T-POT	SGS254
910502157118	SGS454 SON-T250W K II CP FG AL 7035 SND	1 pc	Closed T-POT	SGS454
910502157318	SGS454 SON-T400W K II CP FG AL 7035 SND	1 pc	Closed T-POT	SGS454

Light Technical

Order Code	Full Product Name	Standard tilt angle side entry	Standard tilt 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°
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°
910502156918	SGS454 SON-T150W K II CP GB AL 7035 SND	5°	5°
910502157018	SGS454 SON-T250W K II CP GB AL 7035 SND	5°	5°
910502157218	SGS454 SON-T400W K II CP GB AL 7035 SND	5°	5°

Order Code	Full Product Name	Standard tilt angle side entry	Standard tilt angle posttop
910502170618	SGS254 SON-T250W K I TP GB GR SND	-	-
910502170818	SGS254 SON-T400W K I TP GB GR SND	5°	5°
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	-	-
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°
910502157118	SGS454 SON-T250W K II CP FG AL 7035 SND	5°	5°
910502157318	SGS454 SON-T400W K II CP FG AL 7035 SND	5°	5°

Mechanical and Housing

Order Code	Full Product Name	Color
910401873818	SGS254 SON-T250W II TP GB GR SND	Gray
910401874318	SGS254 SON-T400W II TP GB GR SND	Gray
910401875818	SGS254 SON-T250W II CP GB GR SND	Gray
910502123018	SGS254 SON-T250W K II CP GB GR SND	Gray
910502123418	SGS254 SON-T400W K II CP GB GR SND	Gray
910502136618	SGS254 SON-T250W K II TP GB GR SND	Gray
910502137018	SGS254 SON-T400W K II TP GB GR SND	Gray
910502156718	SGS254 SON-T150W K II CP GB GR SND	Gray
910502156918	SGS454 SON-T150W K II CP GB AL 7035 SND	-
910502157018	SGS454 SON-T250W K II CP GB AL 7035 SND	-
910502157218	SGS454 SON-T400W K II CP GB AL 7035 SND	-

Order Code	Full Product Name	Color
910502170618	SGS254 SON-T250W K I TP GB GR SND	Gray
910502170818	SGS254 SON-T400W K I TP GB GR SND	Gray
910502122918	SGS254 SON-T250W K II TP FG GR SND	Gray
910502123118	SGS254 SON-T250W K II CP FG GR SND	Gray
910502123518	SGS254 SON-T400W K II CP FG GR SND	Gray
910502136318	SGS254 SON-T250W K II CP FG GR SND	Gray
910502136518	SGS254 SON-T250W K II TP FG GR SND	Gray
910502136918	SGS254 SON-T400W K II TP FG GR SND	Gray
910502156618	SGS254 SON-T150W K II CP FG GR SND	Gray
910502157118	SGS454 SON-T250W K II CP FG AL 7035 SND	-
910502157318	SGS454 SON-T400W K II CP FG AL 7035 SND	-

