



SGS 254/454

Iridium SGS254/454

Modular road-lighting luminaire offering a wide choice of optical, electrical and mechanical combinations to make driving safer and more comfortable. Ensures low cost of ownership thanks to its superior optics and low maintenance and installation costs.

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

Application

- Industrial areas
- Roads
- Crossings
- Roundabouts

Specifications

Type	SGS254 (glass-fiber-reinforced polyester canopy version)	Light source	HID:
	SGS454 (aluminum canopy version)		- 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250, 400 W

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	- 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)
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)

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

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

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Versions

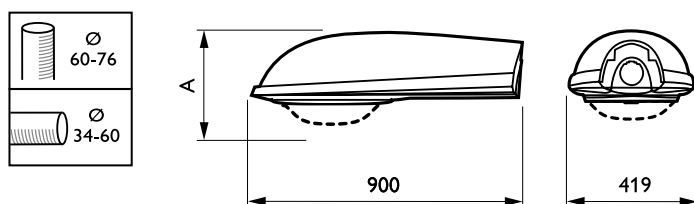


Iridium SGS254/454 road-lighting luminaire with glass bowl (GB)



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

Dimensional drawing



Product	A
SGS254 SON-T400W II TP GB GR SND	319 mm
SGS254 SON-T150W K II CP FG GR SND	247 mm
SGS454 SON-T400W K II CP FG AL 7035 SND	247 mm
SGS254 SON-T250W II TP GB GR SND	319 mm
SGS254 SON-T250W K II TP GB GR SND	319 mm
SGS254 SON-T400W K I TP GB GR SND	319 mm
SGS254 SON-T400W K II CP FG GR SND	247 mm
SGS254 SON-T250W K II CP GB GR SND	319 mm
SGS254 SON-T150W K II CP GB GR SND	319 mm
SGS254 SON-T400W K II CP GB GR SND	319 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-T250W II CP GB GR SND	319 mm
SGS254 SON-T250W K II CP FG GR 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

General Information

Lamp family code	SON-T
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Approval and Application

Order Code	Full Product Name	Mech. impact protection code
82517500	SGS254 SON-T250W II TP GB GR SND	IK08
82522900	SGS254 SON-T400W II TP GB GR SND	-
82537300	SGS254 SON-T250W II CP GB GR SND	-
84237000	SGS254 SON-T250W K II CP GB GR SND	IK08
84244800	SGS254 SON-T400W K II CP GB GR SND	IK08
84484800	SGS254 SON-T250W K II TP GB GR SND	-
84488600	SGS254 SON-T400W K II TP GB GR SND	-
84955300	SGS254 SON-T150W K II CP GB GR SND	IK08
84957700	SGS454 SON-T150W K II CP GB AL 7035 SND	IK08
84958400	SGS454 SON-T250W K II CP GB AL 7035 SND	IK08
84960700	SGS454 SON-T400W K II CP GB AL 7035 SND	IK08

Order Code	Full Product Name	Mech. impact protection code
85180800	SGS254 SON-T250W K I TP GB GR SND	-
85182200	SGS254 SON-T400W K I TP GB GR SND	IK08
84236300	SGS254 SON-T250W K II TP FG GR SND	-
84241700	SGS254 SON-T250W K II CP FG GR SND	IK08
84245500	SGS254 SON-T400W K II CP FG GR SND	IK08
84481700	SGS254 SON-T250W K II CP FG GR SND	-
84483100	SGS254 SON-T250W K II TP FG GR SND	-
84487900	SGS254 SON-T400W K II TP FG GR SND	-
84954600	SGS254 SON-T150W K II CP FG GR SND	IK08
84959100	SGS454 SON-T250W K II CP FG AL 7035 SND	IK08

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Order Code	Full Product Name	Mech. impact protection	
		code	
84961400	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
82517500	SGS254 SON-T250W II TP GB GR SND	CE mark	-	-	-	GB	CONV	250 W
82522900	SGS254 SON-T400W II TP GB GR SND	-	-	-	-	GB	-	400 W
82537300	SGS254 SON-T250W II CP GB GR SND	-	-	-	-	GB	-	250 W
84237000	SGS254 SON-T250W K II CP GB GR SND	CE mark	-	-	-	GB	CONV	250 W
84244800	SGS254 SON-T400W K II CP GB GR SND	CE mark	-	-	-	GB	CONV	400 W
84484800	SGS254 SON-T250W K II TP GB GR SND	-	-	-	-	GB	-	250 W
84488600	SGS254 SON-T400W K II TP GB GR SND	-	-	-	-	GB	-	400 W
84955300	SGS254 SON-T150W K II CP GB GR SND	CE mark	-	-	-	GB	CONV	150 W
84957700	SGS454 SON-T150W K II CP GB AL 7035 SND	CE mark	-	All parts colored	-	GB	CONV	150 W
84958400	SGS454 SON-T250W K II CP GB AL 7035 SND	CE mark	-	All parts colored	-	GB	CONV	250 W
84960700	SGS454 SON-T400W K II CP GB AL 7035 SND	CE mark	-	All parts colored	-	GB	CONV	400 W
85180800	SGS254 SON-T250W K I TP GB GR SND	-	-	-	-	GB	-	250 W
85182200	SGS254 SON-T400W K I TP GB GR SND	CE mark	-	-	-	GB	CONV	400 W
84236300	SGS254 SON-T250W K II TP FG GR SND	-	-	-	-	FG	-	250 W
84241700	SGS254 SON-T250W K II CP FG GR SND	CE mark	-	-	-	FG	CONV	250 W
84245500	SGS254 SON-T400W K II CP FG GR SND	CE mark	-	-	-	FG	CONV	400 W
84481700	SGS254 SON-T250W K II CP FG GR SND	-	-	-	-	FG	-	250 W
84483100	SGS254 SON-T250W K II TP FG GR SND	-	-	-	-	FG	-	250 W
84487900	SGS254 SON-T400W K II TP FG GR SND	-	-	-	-	FG	-	400 W
84954600	SGS254 SON-T150W K II CP FG GR SND	CE mark	-	-	-	FG	CONV	150 W
84959100	SGS454 SON-T250W K II CP FG AL 7035 SND	CE mark	-	All parts colored	-	FG	CONV	250 W
84961400	SGS454 SON-T400W K II CP FG AL 7035 SND	CE mark	-	All parts colored	-	FG	CONV	400 W

General Information (2/2)

Order Code	Full Product Name	Number of		Product Family
		light sources	Optic type	
82517500	SGS254 SON-T250W II TP GB GR SND	1	Open T-POT	SGS254
82522900	SGS254 SON-T400W II TP GB GR SND	-	Open T-POT	SGS254
82537300	SGS254 SON-T250W II CP GB GR SND	-	Closed T-POT	SGS254
84237000	SGS254 SON-T250W K II CP GB GR SND	1	Closed T-POT	SGS254
84244800	SGS254 SON-T400W K II CP GB GR SND	1	Closed T-POT	SGS254
84484800	SGS254 SON-T250W K II TP GB GR SND	-	Open T-POT	SGS254
84488600	SGS254 SON-T400W K II TP GB GR SND	-	Open T-POT	SGS254
84955300	SGS254 SON-T150W K II CP GB GR SND	1	Closed T-POT	SGS254

Order Code	Full Product Name	Number of		Product Family
		light sources	Optic type	
84957700	SGS454 SON-T150W K II CP GB AL 7035 SND	1	Closed T-POT	SGS454
84958400	SGS454 SON-T250W K II CP GB AL 7035 SND	1	Closed T-POT	SGS454
84960700	SGS454 SON-T400W K II CP GB AL 7035 SND	1	Closed T-POT	SGS454
85180800	SGS254 SON-T250W K I TP GB GR SND	-	Open T-POT	SGS254
85182200	SGS254 SON-T400W K I TP GB GR SND	1	Open T-POT	SGS254
84236300	SGS254 SON-T250W K II TP FG GR SND	-	Open T-POT	SGS254
84241700	SGS254 SON-T250W K II CP FG GR SND	1	Closed T-POT	SGS254
84245500	SGS254 SON-T400W K II CP FG GR SND	1	Closed T-POT	SGS254

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Order Code	Full Product Name	Number of	Optic type	Product
		light sources		Family Code
84481700	SGS254 SON-T250W K II CP FG GR SND	-	Closed T-POT	SGS254
84483100	SGS254 SON-T250W K II TP FG GR SND	-	Open T-POT	SGS254
84487900	SGS254 SON-T400W K II TP FG GR SND	-	Open T-POT	SGS254

Order Code	Full Product Name	Number of	Optic type	Product
		light sources		Family Code
84954600	SGS254 SON-T150W K II CP FG GR SND	1	Closed T-POT	SGS254
84959100	SGS454 SON-T250W K II CP FG AL 7035 SND	1	Closed T-POT	SGS454
84961400	SGS454 SON-T400W K II CP FG AL 7035 SND	1	Closed T-POT	SGS454

Light Technical

Order Code	Full Product Name	Standard tilt	Standard tilt
		angle side entry	angle posttop
82517500	SGS254 SON-T250W II TP GB GR SND	5°	5°
82522900	SGS254 SON-T400W II TP GB GR SND	-	-
82537300	SGS254 SON-T250W II CP GB GR SND	-	-
84237000	SGS254 SON-T250W K II CP GB GR SND	5°	5°
84244800	SGS254 SON-T400W K II CP GB GR SND	5°	5°
84484800	SGS254 SON-T250W K II TP GB GR SND	-	-
84488600	SGS254 SON-T400W K II TP GB GR SND	-	-
84955300	SGS254 SON-T150W K II CP GB GR SND	5°	5°
84957700	SGS454 SON-T150W K II CP GB AL 7035 SND	5°	5°
84958400	SGS454 SON-T250W K II CP GB AL 7035 SND	5°	5°
84960700	SGS454 SON-T400W K II CP GB AL 7035 SND	5°	5°

Order Code	Full Product Name	Standard tilt	Standard tilt
		angle side entry	angle posttop
85180800	SGS254 SON-T250W K I TP GB GR SND	-	-
85182200	SGS254 SON-T400W K I TP GB GR SND	5°	5°
84236300	SGS254 SON-T250W K II TP FG GR SND	-	-
84241700	SGS254 SON-T250W K II CP FG GR SND	5°	5°
84245500	SGS254 SON-T400W K II CP FG GR SND	5°	5°
84481700	SGS254 SON-T250W K II CP FG GR SND	-	-
84483100	SGS254 SON-T250W K II TP FG GR SND	-	-
84487900	SGS254 SON-T400W K II TP FG GR SND	-	-
84954600	SGS254 SON-T150W K II CP FG GR SND	5°	5°
84959100	SGS454 SON-T250W K II CP FG AL 7035 SND	5°	5°
84961400	SGS454 SON-T400W K II CP FG AL 7035 SND	5°	5°

Mechanical and Housing

Order Code	Full Product Name	Color
82517500	SGS254 SON-T250W II TP GB GR SND	Gray
82522900	SGS254 SON-T400W II TP GB GR SND	Gray
82537300	SGS254 SON-T250W II CP GB GR SND	Gray
84237000	SGS254 SON-T250W K II CP GB GR SND	Gray
84244800	SGS254 SON-T400W K II CP GB GR SND	Gray
84484800	SGS254 SON-T250W K II TP GB GR SND	Gray
84488600	SGS254 SON-T400W K II TP GB GR SND	Gray
84955300	SGS254 SON-T150W K II CP GB GR SND	Gray
84957700	SGS454 SON-T150W K II CP GB AL 7035 SND	-
84958400	SGS454 SON-T250W K II CP GB AL 7035 SND	-
84960700	SGS454 SON-T400W K II CP GB AL 7035 SND	-

Order Code	Full Product Name	Color
85180800	SGS254 SON-T250W K I TP GB GR SND	Gray
85182200	SGS254 SON-T400W K I TP GB GR SND	Gray
84236300	SGS254 SON-T250W K II TP FG GR SND	Gray
84241700	SGS254 SON-T250W K II CP FG GR SND	Gray
84245500	SGS254 SON-T400W K II CP FG GR SND	Gray
84481700	SGS254 SON-T250W K II CP FG GR SND	Gray
84483100	SGS254 SON-T250W K II TP FG GR SND	Gray
84487900	SGS254 SON-T400W K II TP FG GR SND	Gray
84954600	SGS254 SON-T150W K II CP FG GR SND	Gray
84959100	SGS454 SON-T250W K II CP FG AL 7035 SND	-
84961400	SGS454 SON-T400W K II CP FG AL 7035 SND	-

