Iridium² – lighting the road ahead

Iridium² Medium

Iridium² is a family of road lighting luminaires designed for performance and sustainability. Depending on the application and budget, customers can start with LED, electronic HID or a mix of both technologies with the same luminaire. Whatever the initial choice, Iridium²'s modularity allows customers to upgrade their installations (LED to LED or e-HID to LED) whenever they want, simply by changing the light engine.The integration of LEDGINE, brand new HID optics, electronic gear and controls is a response to the growing demand for energy savings. The new Iridium² HID optics are designed to deliver best-in-class lighting performance while offering tremendous flexibility in application. All these features, combined with Iridium²'s ease of installation and maintenance, ensure that customers enjoy low cost of ownership.

Benefits
- Future-proof luminaire: maintenance very easy; no tools required for LED upgrade
- Highly efficient lighting platform; no compromise on lighting quality thanks to flat glass
- Full flexibility to cover all applications, with choice of price and technology

Features
- LEDGINE inside
- Best-in-class optics
- Electronic gear (Philips Xtreme gear)
- Integrated controls

Application
- Roads: highways and motorized traffic within and between cities
- Streets: mixed traffic and residential streets
- Walking/cycling paths, car parks, roundabouts

Specifications

Iridium² Medium

Type	SGP352	**Materials and finishing**	Housing: die-cast aluminium
Light source	HID:		High-reflective optics (assembled optics)
	– MASTER CosmoWhite CPO–TW / PGZ12 / 60, 90, 140 W		Glass: extra-white tempered, 5 mm thick
	– MASTER SON–T PIA Plus / E27 / 50, 70 W	**Colour**	RAL7035 or silver grey (like RAL 9006) as standard
	– MASTER SON–T PIA Plus / E40 / 100, 150 W		Other RAL or AKZO colours available on request
	– MASTER CityWhite CDO–TT / E40 / 100, 150 W	**Installation**	Post-top mounting: axial entry Ø 60 – 76 mm
Ballast	Electronic, High Frequency 220 – 240 V / 50 – 60 Hz:		Side-entry mounting: lateral entry Ø 48 – 60 mm
	– Electronic (EB)		Operating temperature: – 25ºC < T
Mains voltage	220-240 V / 50-60 Hz		Recommended mounting height: 5 to 10 m
Optic	Flexible optic 1 (FX1) for Cosmopolis lamps		Standard tilt angle post top: 0 and 5º
	Flexible optic 2 (FX2) for Cosmopolis lamps		Adjustable tilt angle: 0 and 5º
	Flexible optic 1 (FX1) for SON lamps	**Accessories**	Back louver ZGP352
	Flexible optic 2 (FX2) for SON lamps	**Remarks**	Philips Xtreme gear inside with below specifications:
Optical cover	Flat glass (FG)		– Lifetime: 80,000 hours
	Flat glass with DynaClean coating (FGD)		– Ambient temperature: –30 to +50ºC
	Flat glass, extra clear		– Lightning protection up to 10 kV
Options	Light regulation:		
	– Stand alone dimming via Lumistep		
	– Stand alone dimming via programmable Lumistep		
	– Lineswitch via Pilot Line		
	– Mains Dimming		
	– Light Level Adjustment		
	– External dimming DALI		
	– Dimming via Telemanagement DALI		
	– Dimming via Telemanagement RF		
	Photocell: NEMA socket, Minicell		
	Fuses		
	Pre-cabled luminaire		

Versions

Iridium² e–HID SGP352 road-lighting luminaire

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Product details

Smooth shape of Iridium²

Easy installation

Setting the lamp position

Gear tray replacement without use of tools (disconnection)

Gear tray replacement without use of tools (removing the gear tray)
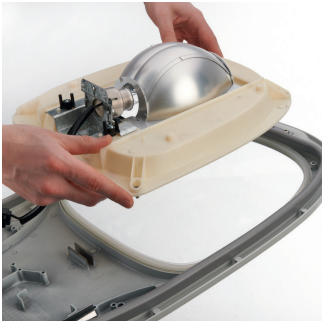
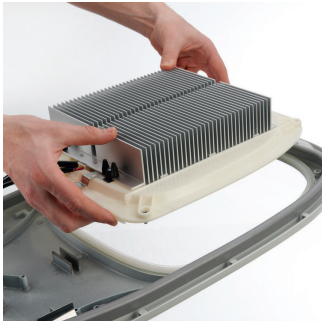

Re-lamping

Re-lamping

Easy switch from HID to LED (unscrew the optical plate)

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Product details

Easy switch from HID to LED
(remove optical system)

Easy switch from HID to LED
(install LED module)

Easy switch from HID to LED
(screw LED module)

Easy switch from HID to LED
(install LED gear tray)

Architecture of Iridium² eHID

Iridium² optic

General Information	
Parts color	All parts colored
Coating	–
Product Family Code	SGP352
Mechanical and Housing	
Color	Gray

General Information

Order Code	Full Product Name	Colored frame	Optical cover/lens type	Gear	Lamp family code	Lamp power	Optic type
97569400	SGP352 CPO-TW60W K EB FX1 AL GR	–	FG	EB	CPO-TW	60 W	Flexible distribution version 1
97574800	SGP352 CPO-TW60W K EB II FX1 AL GR	–	FG	EB	CPO-TW	60 W	Flexible distribution version 1
97575500	SGP352 CPO-TW90W K EB FX1 AL GR	–	FG	EB	CPO-TW	90 W	Flexible distribution version 1
97579300	SGP352 CPO-TW90W K II FX1 FG AL GR	–	FG	–	CPO-TW	90 W	Flexible distribution version 1
97581600	SGP352 CPO-TW140W K EB FX1 AL GR	–	–	EB	CPO-TW	140 W	Flexible distribution version 1

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Order Code	Full Product Name	Colored frame	Optical cover/lens type	Gear	Lamp family code	Lamp power	Optic type
97585400	SGP352 CPO-TW140W K EB II FG AL GR	–	FG	EB	CPO-TW	140 W	–
97586100	SGP352 SON-TPP70W K EB FX1 AL GR	–	–	EB	SON-TPP	70 W	Flexible distribution version 1
97591500	SGP352 SON-TPP70W K EB II FX1 AL GR	–	–	EB	SON-TPP	70 W	Flexible distribution version 1
97593900	SGP352 SON-TPP100W K EB FX1 AL GR	–	–	EB	SON-TPP	100 W	Flexible distribution version 1
97597700	SGP352 SON-TPP100W K EB II FX1 AL GR	–	–	EB	SON-TPP	100 W	Flexible distribution version 1
97602800	SGP352 SON-TPP150W K EB II FX2 AL GR	–	–	EB	SON-TPP	150 W	Flexible distribution version 2
97603500	SGP352 CPO-TW60W K EB II FX2 AL GR	–	–	EB	CPO-TW	60 W	Flexible distribution version 2
97604200	SGP352 CPO-TW90W K II FX2 AL GR	–	–	EB	CPO-TW	90 W	Flexible distribution version 2
97605900	SGP352 CPO-TW140W K II FX2 AL GR	–	–	EB	CPO-TW	140 W	Flexible distribution version 2
97606600	SGP352 SON-TPP70W K II FX2 AL GR	–	–	EB	SON-TPP	70 W	Flexible distribution version 2
97607300	SGP352 SON-TPP100W K II FX2 AL GR	–	–	EB	SON-TPP	100 W	Flexible distribution version 2
97608000	SGP352 SON-TPP150W K II FX1 AL GR	–	–	EB	SON-TPP	150 W	Flexible distribution version 1
97628800	SGP352 SON-TPP70W EB FX1 AL GR	–	FG	EB	SON-TPP	70 W	Flexible distribution version 1
97630100	SGP352 SON-TPP150W K FX1 FG AL GR	–	FG	EB	SON-TPP	150 W	Flexible distribution version 1
97650900	SGP352 CPO-TW45W K II FX1 FGD AL GR D11	–	FGD	–	CPO-TW	45 W	Flexible distribution version 1