

# Road lighting

# TrafficVision H/SGS 305/306/405/406



HGS 305/405 with flat glass



SGS 306/406 with acrylic glass

The luminaires are available with either glass-fiber reinforced polyester (305 & 306) or aluminium (405 & 406).

## H/SGS 305/306/405/406

Road lighting luminaires for today - and into the next century. Fully adjustable, to deliver light precisely where it is needed, in the quantity needed, for safe and comfortable driving. Stylish but business-like modern design. TrafficVision's modular concept assures easy installation, fast, safe, minimum maintenance and high resistance to vandalism.

### Main applications

- Car parks
- Motorways
- Major roads
- Local roads
- Roundabouts
- Industrial areas

### Features

- Modern modular design with dedicated faceted optics to optimise beam control and maximise light output
- Graduated reflector adjustment for accurate beam direction.
- Three tilt angles, both horizontal and vertical, for optimal installation on mast.
- Choice of mercury and high-pressure sodium lamps.
- Flexible mounting capability for side-entry or top mounting on mast arms.
- Standard ignitor; socket for photo-cell switching and dimming gear available on request.
- High-strength, completely sealed construction resistant to weather and impact, for long service life and low repair and maintenance costs.
- Easy installation with a single Allen key.
- Safe, tool-less maintenance; opening gear compartment breaks electrical circuit.
- Electrical insulation Class II

### Materials and finish

Grey glass-fibre reinforced polyester (305/306) or die-cast aluminium (405/406) front and rear canopies. Choice of non-yellowing acrylic bowl or flat toughened security glass. Die-cast aluminium mounting module.


### Installation and mounting

Fix to any post top or side entry spigot from 42-60 mm (76 mm on request) by two Allen screws.

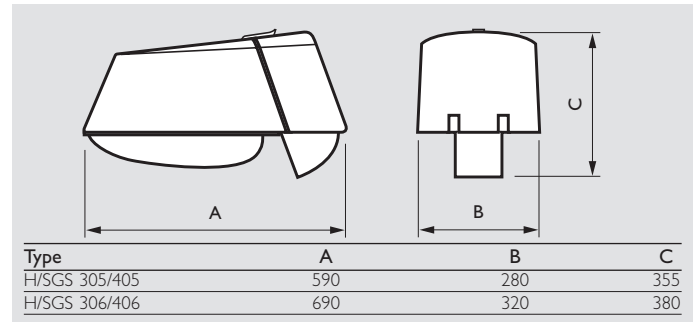
### Accessories

Dimming gear; standard ignitor; photocell switch.

gear 

lamp  

Dimensions in mm



Type	Lamp	Weight kg	Ordering number
<b>Empty luminaires with glass-fibre reinforced polyester housing</b>			
H/SGS 305 T E27 II	HPL-N 50-125W, SON (-E/T) 50-70W	6.2	9105 000 31518
H/SGS 305 T E27 FG II	HPL-N 50-125W, SON (-E/T) 50-70W	6.5	9105 000 31418
SGS 305 T E40 II	SON-T 100-150W, SON-E 100W	6.4	9105 000 31118
SGS 305 T E40 FG II	SON-T 100-150W, SON-E 100W	6.7	9105 000 31018
SGS 306 T E40 II	SON-T PLUS 150-400W	7.0	9105 000 32118
SGS 306 T E40 FG II	SON-T PLUS 150-400W	7.5	9105 000 31918

<b>Empty luminaires with aluminium housing</b>			
H/SGS 405 T E27 II	HPL-N 50-125W, SON (-E/T) 50-70W	7.6	9105 002 71118
H/SGS 405 T E27 FG II	HPL-N 50-125W, SON (-E/T) 50-70W	7.8	9105 002 71318
SGS 405 T E40 II	SON-T 100-150W, SON-E 100W	7.9	9105 002 71218
SGS 405 T E40 FG II	SON-T 100-150W, SON-E 100W	8.1	9105 002 71418
SGS 406 T E40 II	SON-T PLUS 150-400W	9.6	9105 002 71518
SGS 406 T E40 FG II	SON-T PLUS 150-400W	10.1	9105 002 71718

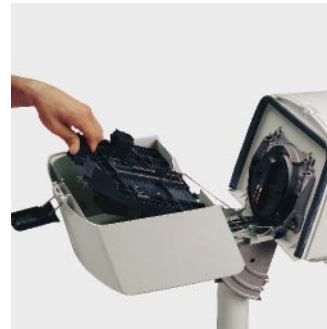
<b>Electrical unit without gear (for both 305 and 405)</b>			
unit H/SGS 305 empty	all lamps	0.5	9105 002 35918

<b>Electrical unit with gear (for both 305 and 405)</b>			
unit HGS 305/080-125	HPL-N 80-125W (E27)	1.5	9105 000 58718
unit SGS 305/070 ST	SON(-E/T) 70W (E27)	1.6	9105 002 35618
unit SGS 305/100 ST	SON(-E/T) 100W (E40)	2.0	9105 002 35818
unit SGS 305/150 ST	SON(-E/T) 150W (E40)	2.3	9105 002 36318

<b>Electrical unit without gear (for both 306 and 406)</b>			
unit H/SGS 306 empty	E40 lamps	0.7	9105 002 36018

<b>Electrical unit with gear (for both 306 and 406)</b>			
unit HGS 306/250	HPL-N 250W (E40)	3.1	9105 000 58518
unit HGS 306/150 ST	SON(-E/T) 150W (E40)	2.9	9105 000 36518
unit HGS 306/250 ST	SON(-E/T) 250W (E40)	3.8	9105 000 36718
unit HGS 306/400 ST	SON(-E/T) 400W (E40)	5.7	9105 000 36918

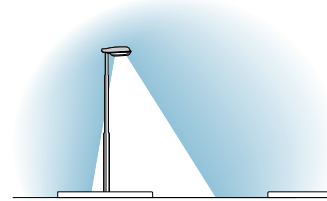
All versions are equipped with 230V/50Hz encapsulated gear and, if present, self-stopping ignitors. Other voltages, NEMA photocell socket, dimming gear and/or standard ignitors are available. Painted luminaires (colour specified with RAL colour code) are available on request.



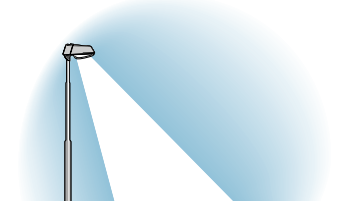
Removing the gear unit.



Removing the lamp.

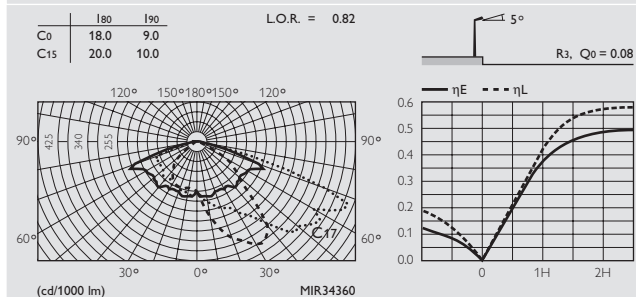


A fixed optical system limits the effectiveness of the utilization of the beam.



The adjustable TrafficVision optical system provides excellent directional beam control towards the road-surface.

### SGS 305/150T B POS.9 X

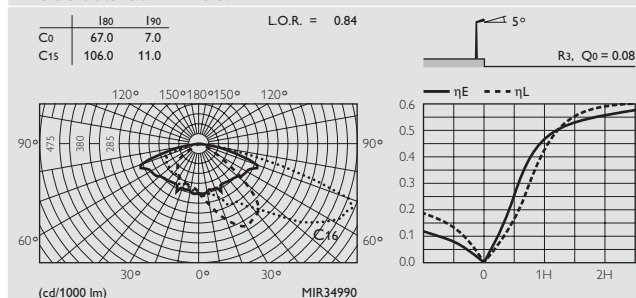


### 1 x SON-T PLUS 150W

1 x 16,500 lm

H (m)	S (m)	E <sub>H</sub> (lux)	U <sub>0</sub>	SR	U <sub>0</sub> (cd/m <sup>2</sup> )	UI (%)	TI (%)	U <sub>0</sub> (cd/m <sup>2</sup> )	UI (%)	TI (%)	U <sub>0</sub> (cd/m <sup>2</sup> )	UI (%)	TI (%)			
10	30	24	0.38	0.54	1.7	0.61	0.81	6.7	1.5	0.63	0.81	7.5	1.6	0.56	0.70	7.2
10	35	20	0.32	0.54	1.4	0.61	0.82	7.5	1.3	0.64	0.82	8.3	1.3	0.54	0.62	7.9
10	40	18	0.28	0.54	1.2	0.60	0.75	8.3	1.1	0.63	0.75	9.1	1.2	0.44	0.57	8.5
10	45	16	0.26	0.54	1.1	0.52	0.61	9.0	1.0	0.60	0.61	9.9	1.0	0.39	0.48	9.3
10	50	14	0.23	0.54	1.0	0.42	0.48	9.7	0.9	0.54	0.48	10.7	0.9	0.32	0.37	10.1

### SGS 306/250T B POS.11 X



### 1 x SON-T PLUS 250W

1 x 32,000 lm

H (m)	S (m)	E <sub>H</sub> (lux)	U <sub>0</sub>	SR	U <sub>0</sub> (cd/m <sup>2</sup> )	UI (%)	TI (%)	U <sub>0</sub> (cd/m <sup>2</sup> )	UI (%)	TI (%)	U <sub>0</sub> (cd/m <sup>2</sup> )	UI (%)	TI (%)			
12	36	32	0.40	0.52	2.5	0.50	0.84	8.9	2.2	0.53	0.84	10.2	2.4	0.45	0.69	9.4
12	42	27	0.33	0.52	2.1	0.49	0.84	9.4	1.9	0.52	0.84	10.8	2.0	0.45	0.62	10.0
12	48	24	0.28	0.52	1.9	0.47	0.81	9.9	1.7	0.51	0.81	11.4	1.8	0.43	0.51	10.4
12	54	22	0.25	0.52	1.7	0.44	0.68	10.4	1.5	0.48	0.68	12.1	1.6	0.37	0.43	11.0
12	60	19	0.22	0.52	1.5	0.38	0.58	11.0	1.3	0.48	0.58	12.6	1.4	0.33	0.38	11.8