

SWARCO

COMBIA CIRCULAR

TRAFFIC SIGNAL



OUR SIGNAL FOR GREATER SUSTAINABILITY

The LED Traffic Light Optimized For Circularity

With COMBIA CIRCULAR, you are choosing not only top-tier manufacturing quality, durability, and reliability, but also making a significant contribution toward a circular economy. The CIRCULAR LED signal head is a model within the COMBIA traffic light family, made from UV-stabilized, 100% circular-optimized material — based on post-consumer recycled polycarbonate. This reflects our forward-looking material philosophy, significantly reducing dependence on fossil resources. COMBIA CIRCULAR is a key step toward CO₂ reduction, waste prevention, and lifecycle optimization. This signal head also guarantees long service life and UV resistance. By integrating FUTURIT low-energy LED modules, we ensure minimal power consumption during operation, resulting in measurable CO₂ savings. Even at the end of its product life, COMBIA CIRCULAR points in a sustainable direction: all components and materials are designed to be easily separated by type and prepared for recycling. Additional product advantages include faster maintenance thanks to wide opening angles and reduced installation time due to simple aspect access. Naturally, COMBIA CIRCULAR is also a smart signal head, equipped with intelligent features in each half-aspect, making it ready for the era of Smart Mobility.

PRODUCT ADVANTAGES

- COMBIA CIRCULAR complements the well-known COMBIA family with a life cycle optimized product consisting of post-consumer recycled material (>90% PCR)
- Material mix based on quality tested polycarbonate recycloate
- Unchanged COMBIA design with familiar mechanical properties improves the environmental balance for the end customer
- A milestone for the circular economy of technical plastics
- Documented and verified environmental data available on request
- Existing LED modules and fixings can continue to be used
- Produced with 100% green electricity (approx. 50% from our own photovoltaic system)
- Produced in ISO 14001 / ISO 45001 certified factory



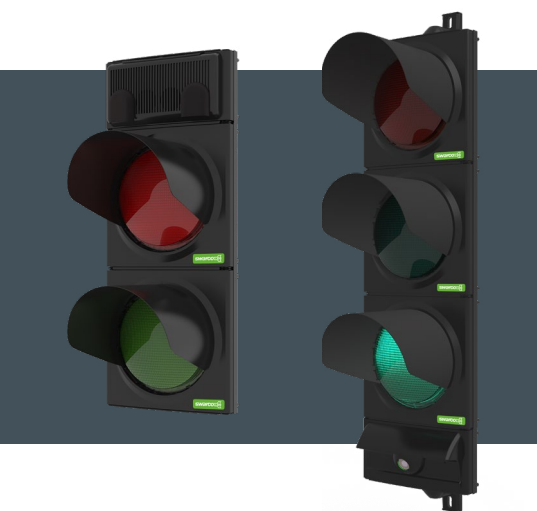


SAFELIGHT

Ground projection
for pedestrian safety

SOUND

Acoustic signal
for pedestrian
orientation



AIRDEC

Measurement of air
quality and environ-
mental data

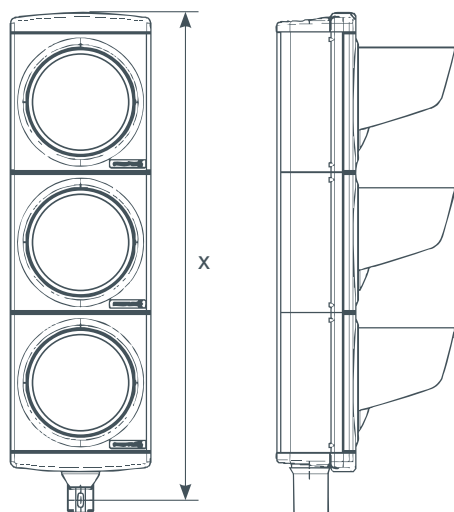
LANECOM

Sensors for road
user detection

- Smart functions 'SafeLight, AirDec, LaneCom' can be used individually
- Easily expandable and prepared for smart additional functions (CCAM)
- Optional: integrated 'Sound' acoustic unit in half chamber
- Faster maintenance: front doors open up to 175° to the left or right at 200 mm
- Reduced installation time thanks to quick and easy opening of the chambers
- Simple clamping technology for LED cabling
- Elastic, plug-in dimming screens
- Simple cable routing between the chambers
- Mounting option for contrast screens prepared
- Plastic cover for attractive design available as an option

TECHNICAL DETAILS

| | |
|-------------------------|---|
| Material | UV-stabilized polycarbonate, of which at least 90% post-consumer recycled material |
| Diameters, Mounting | 200 mm aspects: 1-5, vertical or horizontal |
| Smart features | integrated as 1/2 aspect version for 200 mm, on top and / or bottom |
| IP protection | IP55 |
| Impact resistance | IR3 |
| Temperature range | -40°C to +60°C |
| Protection class | SK II |
| LED-Optic | 200 mm LED modules FUTURLED6 |
| Fixing | <ul style="list-style-type: none"> ■ 70 mm brackets (polycarbonate) ■ (optional: 175 mm polycarbonate and 105/183/240 mm aluminium) ■ Fixing elements for flat iron bracket / whip mast fastening ■ M8 / M12 mounting |
| Backing boards | fixing on the back of the housing |
| Housing / front colours | RAL 9005 black / RAL 9005 black |
| Certificates | EN 12368, CE |



HEIGHT X (in mm)

| | 1K | 2K | 3K | 4K |
|--------------------------------|------------|------------|------------|-------------|
| PC 70 | 397 +/- 13 | 677 +/- 12 | 957 +/- 11 | ---- |
| PC 70 with double-toothed disc | 407 +/- 13 | 687 +/- 11 | 967 +/- 11 | ---- |
| PC 175 | 413 +/- 7 | 693 +/- 6 | 973 +/- 6 | ---- |
| Alu 105 / 183 / 240 | 404 +/- 16 | 684 +/- 15 | 964 +/- 15 | 1244 +/- 15 |