



# LED Signal Compact

## Applications

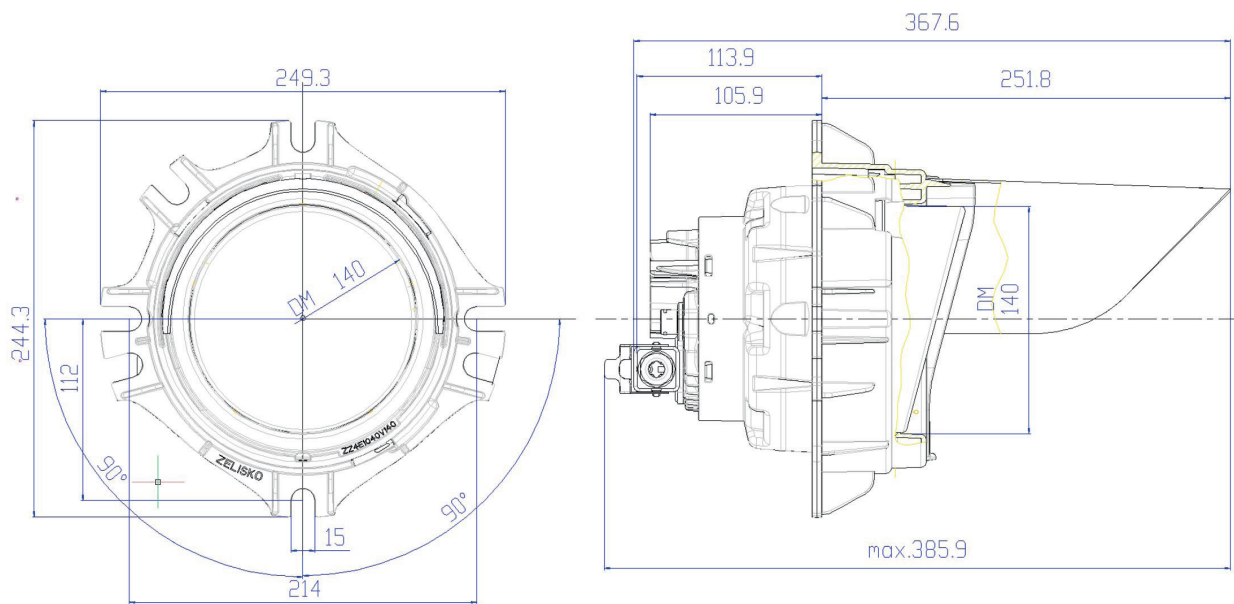
Trackside signaling



**ZELISKO**

# Zelisko LED Signal combines high visibility with low life-cycle costs

The new Compact Line offers the symbiosis between minimal dimensions and future orientated components.



*Dimensions shown are representative of the 140 mm compact signal*

## Features:

- safety level SIL4 acc. CENELEC EN 50129
- high power LED
- no preventive maintenance
- high availability
- high efficiency
- AC & DC variants
- Current / Voltage monitoring of LED
- safe shut down in fault case
- compatible to a lot of interlocking types
- only 2 electronic PCB (PCU + LED)
- One PCU variant specific for one interlocking type
- LED module: one size and colour for all IXL types
- significant simplification in logistics
- best optical performance + smallest dimensions
- Protection class IP65
- Front part adaptable to different mounting
- methods Connection via plug or cable gland
- easier mounting and adjustment on the mast
- weight: actual type: 3kg, Compact: 1,95 kg !
- 100 % recyclable

# COMPACT 3D Views

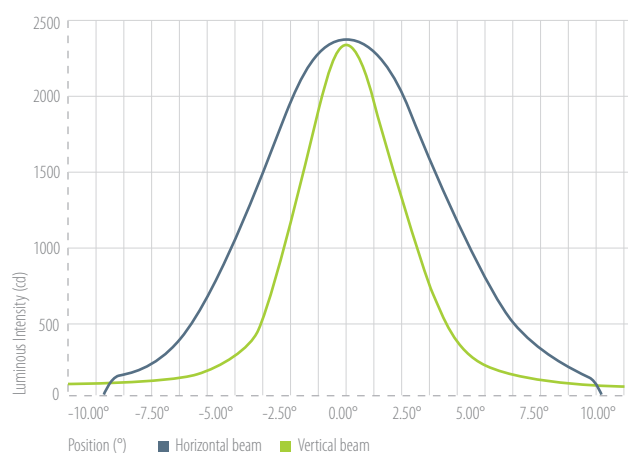


## Technical data Compact

| Luminous intensity               |           |       | red / amber / green / white |      | blue |      | purple |      |
|----------------------------------|-----------|-------|-----------------------------|------|------|------|--------|------|
|                                  |           |       | min.                        | max. | min. | max. | min.   | max. |
| Luminous intensity 210 mm signal | typ. [cd] | day   | 1000                        | 3000 | 1000 | 3000 |        |      |
|                                  |           | night | 350                         | 1000 | 350  | 1500 |        |      |
| Luminous intensity 160 mm signal | typ. [cd] | day   | 1000                        | 3000 | 1000 | 3000 | 700    | 2100 |
|                                  |           | night | 350                         | 1500 | 350  | 1500 | 250    | 700  |
| Luminous intensity 100 mm signal | typ. [cd] | day   | 600                         | 1800 | 600  | 1800 |        |      |
|                                  |           | night | 200                         | 600  | 200  | 600  |        |      |

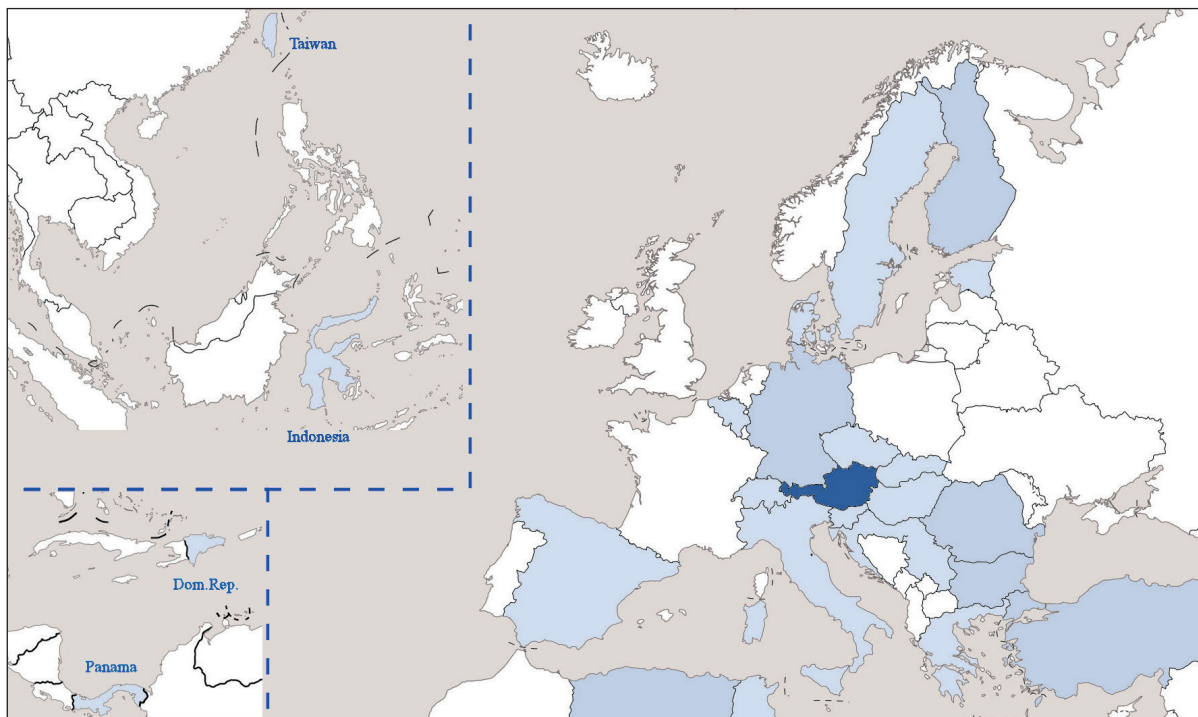
| Electrical parameters for 12 V AC/20 W standard version |             | Value |      |      | Unit           |
|---------------------------------------------------------|-------------|-------|------|------|----------------|
|                                                         |             | min.  | typ. | max. |                |
| Voltage daytime operation                               | $U_{day}$   | 10.8  | 12   | 13.2 | $V_{AC\ rms}$  |
| Current daytime operation                               | $I_{day}$   | 1.1   |      | 1.9  | $A_{AC\ rms}$  |
| El. power daytime operation                             | $P_{day}$   |       | 20   |      | $W_{eff.}$     |
| Voltage nighttime operation                             | $U_{night}$ | 7.2   | 8    | 9.0  | $V_{AC\ rms}$  |
| Current nighttime operation                             | $I_{night}$ | 0.9   |      | 1.4  | $A_{AC\ rms}$  |
| Frequency                                               | $f$         | 47    | 50   | 53   | Hz             |
| Switch-off current                                      | $I_{off}$   |       |      | 850  | $mA_{AC\ rms}$ |
| Switch-on                                               | $U_{on}$    | -     | 7    | 7.2  | $V_{AC\ rms}$  |
| Switch-on delay                                         | $t_{on}$    | -     | 90   | 150  | ms             |
| Undervoltage switch-off                                 | $U_{off}$   | 5     |      | 6.9  | $V_{AC\ rms}$  |
| Flashing frequency (50/50)                              | $f_{blink}$ | -     | 1    | 1.5  | Hz             |

## Light distribution



Errors and technical modifications are excepted.

# LED Technology from Zelisko all over the World !



## Developed in Austria – Delivered worldwide!

After years of gaining experience with the delivery of LED signals in Austria, Zelisko started to look beyond the borders and is extending the market by participating in international projects. This page shows the most important references for Zelisko's LED signal technology. Beside safety level class SIL 4, best optical performance and compatibility with the most commonly used interlocking types are the key for success.

**Dr. techn. Josef Zelisko,  
Fabrik für Elektrotechnik und Maschinenbau  
Gesellschaft m.b.H.**

Beethovengasse 43-45  
2340 Mödling  
Austria  
Phone: +43 2236 409-2229  
Fax: +43 2236 409-2279  
[www.zelisko.com](http://www.zelisko.com)  
[www.knorr-bremse.com](http://www.knorr-bremse.com)



**ZELISKO**