

# Eco-Modul 70 modular Signal tower

- Ø 70 mm modular signal tower series
- Complete range of high-luminosity LED light modules with steady/flashing/strobe/multi-strobe beacon functions, 6 different lens colours
- High-performance steady/strobe/multi-strobe beacon modules
- Alternatively operated with conventional incandescent bulb technology
- Piezo buzzer and multi-tone alarm sounder modules available
- Pre-assembled towers or individual tower modules available for configuration
- Extensive range of mounting types
- User-friendly connection technology
- PLC-suitable
- High degree of protection IP66, UL type 4/4X/13

## TECHNICAL DATA

|                            |                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Housing                    | Ø 70 mm, Polycarbonate black                                                                                                                                           |
| Lens                       | Polycarbonate, ribbed inside orange, red, clear, blue, green or yellow                                                                                                 |
| Type of mounting           | any                                                                                                                                                                    |
| Connection technology      | up to 2,5mm² / 14 AWG                                                                                                                                                  |
| Leakage current            | > 0,003 A (PLC-suitable)                                                                                                                                               |
| Beacon type                | LED steady beacon, LED flashing beacon, LED strobe beacon, HP LED steady beacon, HP LED strobe beacon, HP LED multi strobe beacon or Steady beacon (incandescent bulb) |
| Light source               | 12 LEDs, 4 high-power LEDs, incandescent bulb                                                                                                                          |
| Strobe/flash frequency     | Flashing beacon 2 Hz, strobe beacon 1.4 Hz, multi strobe beacon 1-2.6 Hz                                                                                               |
| Tone                       | Steady tone or Pulsing tone                                                                                                                                            |
| Volume                     | 100 dB                                                                                                                                                                 |
| Tone frequency             | 500-2.700 Hz                                                                                                                                                           |
| Duty cycle                 | 100 %                                                                                                                                                                  |
| Service life               | Light source: LED 100,000 hours, HP LED 50,000 hours                                                                                                                   |
| Number of possible modules | max. 5, with double bracket max. 10                                                                                                                                    |
| Operating temperature      | -30 °C / +60 °C                                                                                                                                                        |
| Degree of protection       | IP66 & UL Type 4/4X/13                                                                                                                                                 |
| Weight (modules)           | 72-102 g                                                                                                                                                               |



## Eco-Modul 70 Pre-configured Signal towers



Order number: ECO70-Q01  
Colours: red/orange/green  
Function: LED steady beacon  
Nominal voltage: 24 V AC/DC  
Type of mounting: Tube mounting  
(100 mm tube length)



Order number: ECO70-Q02  
Colours: red/green  
Function: LED steady beacon  
Nominal voltage: 24 V AC/DC  
Type of mounting: Tube mounting  
(100 mm tube length)



Order number: ECO70-Q05  
Colours: red/orange/green/blue  
Function: LED steady beacon  
Nominal voltage: 24 V AC/DC  
Type of mounting: Tube mounting  
(100 mm tube length)



Order number: ECO70-Q31  
Colours: red/orange/green  
Function: LED steady beacon, buzzer  
steady or pulsing tone  
Nominal voltage: 24 V AC/DC  
Type of mounting: Tube mounting  
(100 mm tube length)



Order number: ECO70-Q81  
Colours: red/orange/green  
Function: LED steady beacon, buzzer  
steady or pulsing tone  
Nominal voltage: 230 V AC  
Type of mounting: Tube mounting  
(100 mm tube length)



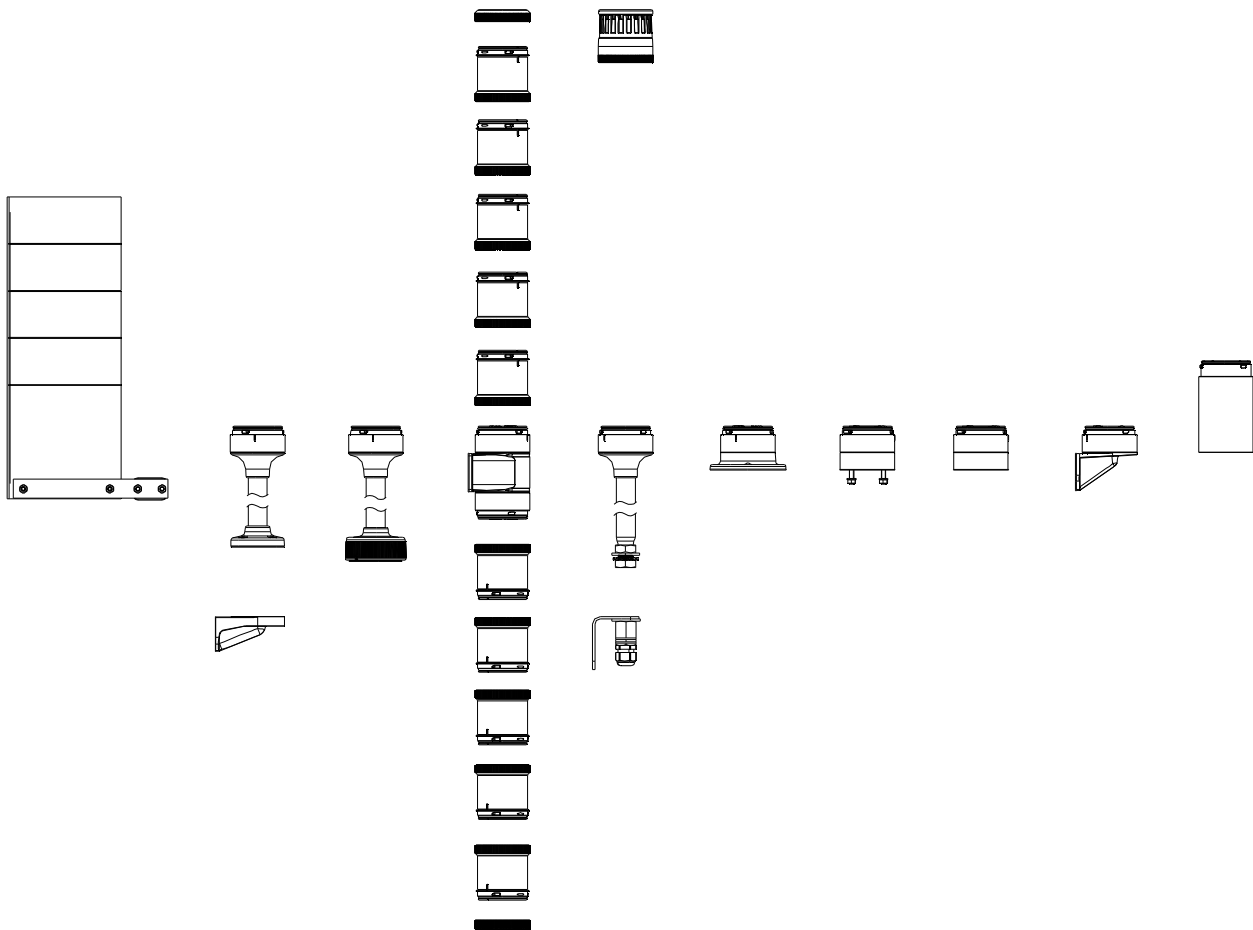
Modular

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## Eco-Modul 70



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# Eco-Modul 70

## VISUAL MODULES

| Type | Beacon type         | Lens colour | Nominal voltage | Voltage range [V] | Nominal current [A] | Order number |
|------|---------------------|-------------|-----------------|-------------------|---------------------|--------------|
| XLL  | Steady beacon       | orange      | 12-250 V AC/DC  |                   | 7 W                 | 900 001 900  |
|      |                     | red         | 12-250 V AC/DC  |                   | 7 W                 | 900 002 900  |
|      |                     | clear       | 12-250 V AC/DC  |                   | 7 W                 | 900 004 900  |
|      |                     | blue        | 12-250 V AC/DC  |                   | 7 W                 | 900 005 900  |
|      |                     | green       | 12-250 V AC/DC  |                   | 7 W                 | 900 006 900  |
|      |                     | yellow      | 12-250 V AC/DC  |                   | 7 W                 | 900 007 900  |
| XDC  | LED steady beacon   | orange      | 24 V AC/DC      | +/- 10 %          | 0,049-0,054         | 900 011 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,031         | 900 011 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,027-0,028         | 900 011 313  |
|      |                     | red         | 24 V AC/DC      | +/- 10 %          | 0,049-0,054         | 900 012 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,031         | 900 012 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,027-0,028         | 900 012 313  |
|      |                     | clear       | 24 V AC/DC      | +/- 10 %          | 0,049-0,054         | 900 014 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,031         | 900 014 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,027-0,028         | 900 014 313  |
|      |                     | blue        | 24 V AC/DC      | +/- 10 %          | 0,049-0,054         | 900 015 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,031         | 900 015 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,027-0,028         | 900 015 313  |
|      |                     | green       | 24 V AC/DC      | +/- 10 %          | 0,049-0,054         | 900 016 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,031         | 900 016 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,027-0,028         | 900 016 313  |
|      |                     | yellow      | 24 V AC/DC      | +/- 10 %          | 0,049-0,054         | 900 017 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,031         | 900 017 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,027-0,028         | 900 017 313  |
| XDA  | LED flashing beacon | orange      | 24 V AC/DC      | +/- 10 %          | 0,058               | 900 021 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,030         | 900 021 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,030-0,031         | 900 021 313  |
|      |                     | red         | 24 V AC/DC      | +/- 10 %          | 0,058               | 900 022 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,030         | 900 022 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,030-0,031         | 900 022 313  |
|      |                     | clear       | 24 V AC/DC      | +/- 10 %          | 0,058               | 900 024 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,030         | 900 024 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,030-0,031         | 900 024 313  |
|      |                     | blue        | 24 V AC/DC      | +/- 10 %          | 0,058               | 900 025 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,030         | 900 025 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,030-0,031         | 900 025 313  |
|      |                     | green       | 24 V AC/DC      | +/- 10 %          | 0,058               | 900 026 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,030         | 900 026 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,030-0,031         | 900 026 313  |
|      |                     | yellow      | 24 V AC/DC      | +/- 10 %          | 0,058               | 900 027 405  |
|      |                     |             | 110-120 V AC    | +/- 10 %          | 0,028-0,030         | 900 027 310  |
|      |                     |             | 230-240 V AC    | +/- 10 %          | 0,030-0,031         | 900 027 313  |

Eco-Modul 70

VISUAL MODULES

| Type   | Beacon type             | Lens colour | Nominal voltage | Voltage range (V)        | Nominal current (A) | Order number |
|--------|-------------------------|-------------|-----------------|--------------------------|---------------------|--------------|
| XDF    | LED strobe beacon       | orange      | 24 V AC/DC      | +/- 10 %                 | 0,130-0,135         | 900 031 405  |
|        |                         |             | 110-120 V AC    | +/- 10 %                 | 0,010               | 900 031 310  |
|        |                         |             | 230-240 V AC    | +/- 10 %                 | 0,010               | 900 031 313  |
|        |                         | red         | 24 V AC/DC      | +/- 10 %                 | 0,130-0,135         | 900 032 405  |
|        |                         |             | 110-120 V AC    | +/- 10 %                 | 0,010               | 900 032 310  |
|        |                         |             | 230-240 V AC    | +/- 10 %                 | 0,010               | 900 032 313  |
|        |                         | clear       | 24 V AC/DC      | +/- 10 %                 | 0,130-0,135         | 900 034 405  |
|        |                         |             | 110-120 V AC    | +/- 10 %                 | 0,010               | 900 034 310  |
|        |                         |             | 230-240 V AC    | +/- 10 %                 | 0,010               | 900 034 313  |
|        |                         | blue        | 24 V AC/DC      | +/- 10 %                 | 0,130-0,135         | 900 035 405  |
|        |                         |             | 110-120 V AC    | +/- 10 %                 | 0,010               | 900 035 310  |
|        |                         |             | 230-240 V AC    | +/- 10 %                 | 0,010               | 900 035 313  |
|        |                         | green       | 24 V AC/DC      | +/- 10 %                 | 0,130-0,135         | 900 036 405  |
|        |                         |             | 110-120 V AC    | +/- 10 %                 | 0,010               | 900 036 310  |
|        |                         |             | 230-240 V AC    | +/- 10 %                 | 0,010               | 900 036 313  |
|        |                         | yellow      | 24 V AC/DC      | +/- 10 %                 | 0,130-0,135         | 900 037 405  |
|        |                         |             | 110-120 V AC    | +/- 10 %                 | 0,010               | 900 037 310  |
|        |                         |             | 230-240 V AC    | +/- 10 %                 | 0,010               | 900 037 313  |
| XDC-HP | LED steady beacon       | orange      | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,170-0,2           | 900 051 405  |
|        |                         | red         | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,170-0,2           | 900 052 405  |
|        |                         | clear       | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,170-0,2           | 900 054 405  |
|        |                         | blue        | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,170-0,2           | 900 055 405  |
|        |                         | green       | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,170-0,2           | 900 056 405  |
|        |                         | yellow      | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,170-0,2           | 900 057 405  |
| XDF-HP | LED strobe beacon       | orange      | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 061 405  |
|        |                         | red         | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 062 405  |
|        |                         | clear       | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 064 405  |
|        |                         | blue        | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 065 405  |
|        |                         | green       | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 066 405  |
|        |                         | yellow      | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 067 405  |
| XFF-HP | LED multi strobe beacon | orange      | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 071 405  |
|        |                         | red         | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 072 405  |
|        |                         | clear       | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 074 405  |
|        |                         | blue        | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 075 405  |
|        |                         | green       | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 076 405  |
|        |                         | yellow      | 24 V AC/DC      | 18-36 V AC<br>18-30 V DC | 0,26-0,265          | 900 077 405  |



Modular

# Eco-Modul 70

## AUDIBLE MODULES

| Type | Tone                                                                                   | Volume                                      | Nominal voltage | Voltage range (V) | Nominal current (A) | Order number |
|------|----------------------------------------------------------------------------------------|---------------------------------------------|-----------------|-------------------|---------------------|--------------|
| XDE  | Piezo buzzer module steady tone/pulsing tone                                           | 100 dB (can be adjusted with potentiometer) | 24 V AC/DC      | +/- 10 %          | 0,092               | 900 500 405  |
|      |                                                                                        |                                             | 110-120 V AC    | +/- 10 %          | 0,041               | 900 500 310  |
|      |                                                                                        |                                             | 230-240 V AC    | +/- 10 %          | 0,043               | 900 500 313  |
| XDZ  | Piezo buzzer module steady tone/pulsing tone, 2 tones, tone can be switched externally | 100 dB (can be adjusted with potentiometer) | 24 V AC/DC      | +/- 10 %          | 0,092               | 900 510 405  |
|      |                                                                                        |                                             | 110-120 V AC    | +/- 10 %          | 0,041               | 900 510 310  |
|      |                                                                                        |                                             | 230-240 V AC    | +/- 10 %          | 0,043               | 900 510 313  |
| XDM  | Piezo buzzer module steady tone/pulsing tone, 8 tones                                  | 100 dB (can be adjusted with potentiometer) | 24 V AC/DC      | +/- 10 %          | 0,311               | 900 520 405  |
|      |                                                                                        |                                             | 110-120 V AC    | +/- 10 %          | 0,045               | 900 520 310  |
|      |                                                                                        |                                             | 230-240 V AC    | +/- 10 %          | 0,043               | 900 520 313  |

## ORDER DATA - BASE

| Type | Type of accessory                                                               | Tube length | Order number |
|------|---------------------------------------------------------------------------------|-------------|--------------|
| XMW  | Base for horizontal mounting M20, inside mounting holes                         |             | 900 570 900  |
| XMS  | Base for horizontal mounting with pre-mounted fixing screws                     |             | 900 571 900  |
| XMF  | Base for horizontal mounting with external mounting holes                       |             | 900 572 900  |
| XMV  | Base for vertical mounting for single-sided mounting                            |             | 900 573 900  |
| XZV  | Base for vertical mounting for double-sided mounting                            |             | 900 574 900  |
| XMR  | Tube base 100 mm on aluminium tube with plastic foot                            | 100 mm      | 900 582 900  |
|      | Tube base 250 mm on aluminium tube with plastic foot                            | 250 mm      | 900 583 900  |
|      | Tube base 400 mm on aluminium tube with plastic foot                            | 400 mm      | 900 584 900  |
| XNW  | Tube base                                                                       |             | 900 570 950  |
| XSW  | Tube base 100 mm on aluminium tube for horizontal mounting with banjo bolt      | 100 mm      | 900 592 900  |
|      | Tube base 250 mm on aluminium tube for horizontal mounting with banjo bolt      | 250 mm      | 900 593 900  |
|      | Tube base 400 mm on aluminium tube for horizontal mounting with banjo bolt      | 400 mm      | 900 594 900  |
| XFR  | Quick mounting system 'foot adapter' 100 mm on aluminium tube with foot adapter | 100 mm      | 900 562 900  |
|      | Quick mounting system 'foot adapter' 250 mm on aluminium tube with foot adapter | 250 mm      | 900 563 900  |
|      | Quick mounting system 'foot adapter' 400 mm on aluminium tube with foot adapter | 400 mm      | 900 564 900  |



XWR



XSS



XIB



XEP

## ACCESSORIES

| Type | Type of accessory                                    | Weight | Order number |
|------|------------------------------------------------------|--------|--------------|
| XWR  | Bracket for vertical mounting of TMR/UMR tube base   | 95 g   | 900 600 900  |
| XSS  | Set Set for vertical mounting (bracket, cable gland) | 135 g  | 900 700 900  |
| XIB  | Identification plate                                 | 235 g  | 900 850 900  |
| XEP  | Base extension 100 mm long, suitable for all bases   |        | 900 800 900  |