

Eco-Modul 60 Signal tower



Modular

- Ø 60 mm modular signal tower series
- Complete range of high-luminosity LED light modules with
- steady/flashing/strobe beacon functions, 6 different lens colours
- High-performance steady and multi-strobe beacon modules
- Alternatively operated with conventional incandescent bulb technology
- Piezo buzzer module available with steady/pulsing tone
- 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 60 mm, Polycarbonate black
Lens	Polycarbonate, ribbed inside orange, red, clear, blue, green or yellow
Type of mounting	any
Connection technology	up to 2,5mm ² / 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 multi strobe beacon or Steady beacon (incandescent bulb)
Light source	8 LEDs, 2 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	90 dB
Tone frequency	2.500 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)	63-83 g



Eco-Modul 60 Pre-configured Signal towers



Order number: ECO60-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: ECO60-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: ECO60-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: ECO60-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)

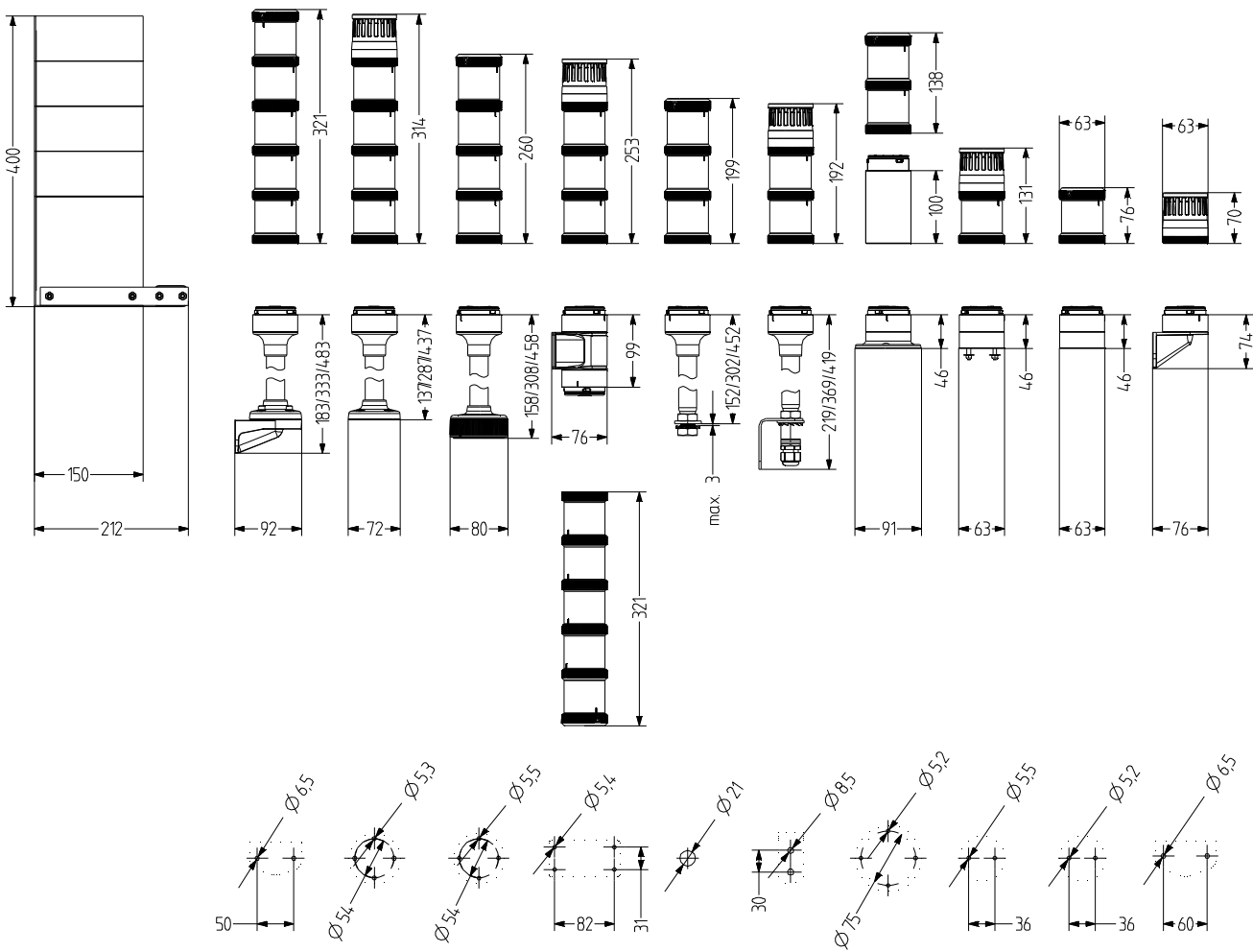


Order number: ECO60-Q81
Colours: red/orange/green
Function: LED steady beacon, buzzer
 steady or pulsing tone
Nominal voltage: 230 V AC
Type of mounting: Tube mounting
 (100 mm tube length)

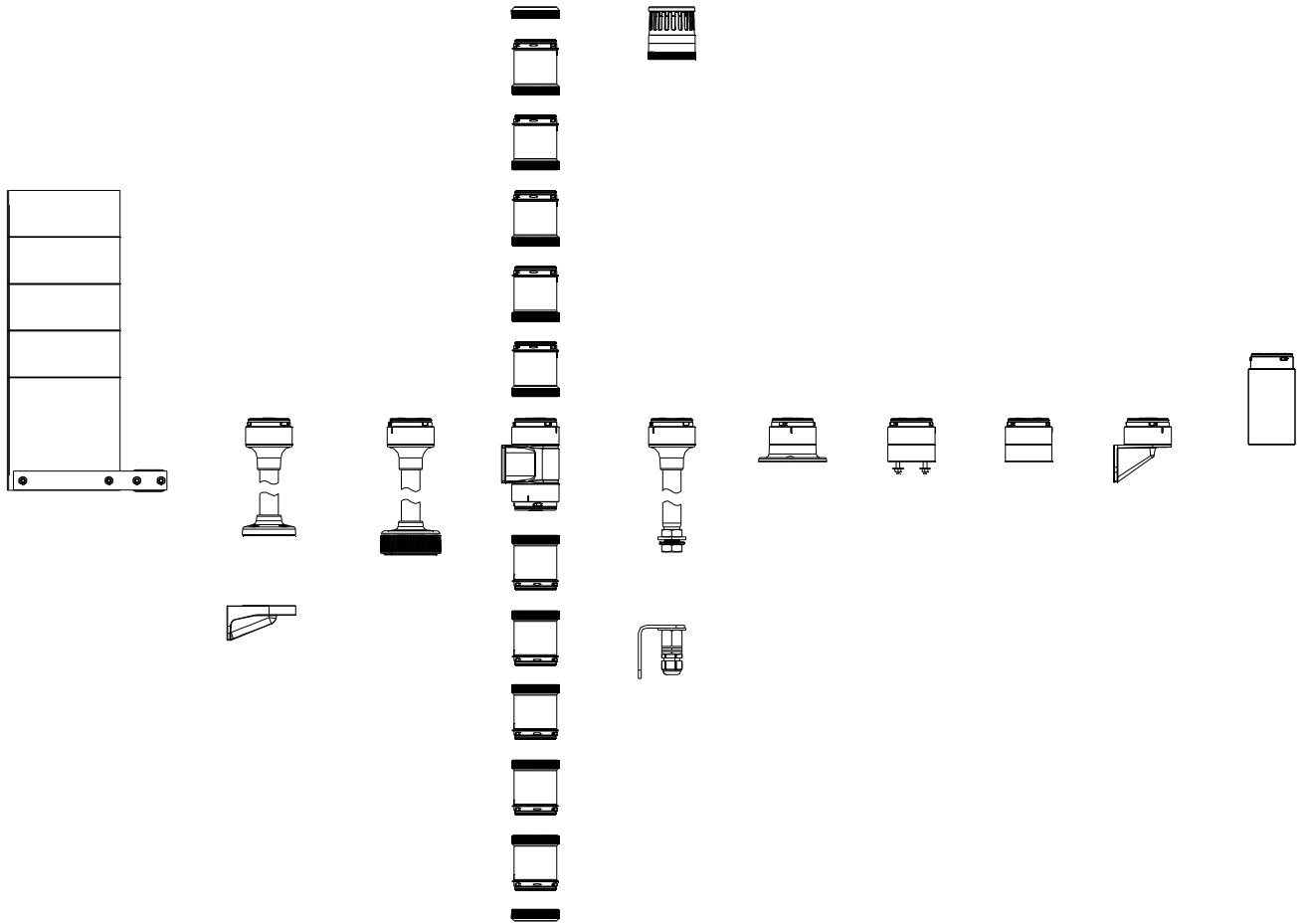
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VISUAL MODULES

Type	Beacon type	Lens colour	Nominal voltage	Voltage range (V)	Nominal current (A)	Order number	Item Nr.		
YLL	Steady beacon	orange	12-250 V AC/DC		4 W	901 001 900	901 001 900		
		red	12-250 V AC/DC		4 W	901 002 900	901 002 900		
		clear	12-250 V AC/DC		4 W	901 004 900	901 004 900		
		blue	12-250 V AC/DC		4 W	901 005 900	901 005 900		
		green	12-250 V AC/DC		4 W	901 006 900	901 006 900		
		yellow	12-250 V AC/DC		4 W	901 007 900	901 007 900		
		YDC	LED steady beacon	orange	24 V AC/DC	+/- 10 %	0,022-0,033	901 011 405	901 011 405
110-120 V AC	+/- 10 %				0,029-0,090	901 011 310	901 011 310		
230-240 V AC	+/- 10 %				0,029-0,090	901 011 313	901 011 313		
red	24 V AC/DC			+/- 10 %	0,022-0,033	901 012 405	901 012 405		
	110-120 V AC			+/- 10 %	0,029-0,090	901 012 310	901 012 310		
	230-240 V AC			+/- 10 %	0,029-0,090	901 012 313	901 012 313		
clear	24 V AC/DC			+/- 10 %	0,022-0,033	901 014 405	901 014 405		
	110-120 V AC			+/- 10 %	0,029-0,090	901 014 310	901 014 310		
	230-240 V AC			+/- 10 %	0,029-0,090	901 014 313	901 014 313		
blue	24 V AC/DC			+/- 10 %	0,022-0,033	901 015 405	901 015 405		
	110-120 V AC			+/- 10 %	0,029-0,090	901 015 310	901 015 310		
	230-240 V AC			+/- 10 %	0,029-0,090	901 015 313	901 015 313		
green	24 V AC/DC			+/- 10 %	0,022-0,033	901 016 405	901 016 405		
	110-120 V AC			+/- 10 %	0,029-0,090	901 016 310	901 016 310		
	230-240 V AC			+/- 10 %	0,029-0,090	901 016 313	901 016 313		
yellow	24 V AC/DC			+/- 10 %	0,022-0,033	901 017 405	901 017 405		
	110-120 V AC			+/- 10 %	0,029-0,090	901 017 310	901 017 310		
	230-240 V AC			+/- 10 %	0,029-0,090	901 017 313	901 017 313		
YDA	LED flashing beacon			orange	24 V AC/DC	+/- 10 %	0,028-0,036	901 021 405	901 021 405
					110-120 V AC	+/- 10 %	0,030	901 021 310	901 021 310
					230-240 V AC	+/- 10 %	0,030	901 021 313	901 021 313
				red	24 V AC/DC	+/- 10 %	0,028-0,036	901 022 405	901 022 405
					110-120 V AC	+/- 10 %	0,030	901 022 310	901 022 310
					230-240 V AC	+/- 10 %	0,030	901 022 313	901 022 313
				clear	24 V AC/DC	+/- 10 %	0,028-0,036	901 024 405	901 024 405
					110-120 V AC	+/- 10 %	0,030	901 024 310	901 024 310
					230-240 V AC	+/- 10 %	0,030	901 024 313	901 024 313
		blue	24 V AC/DC	+/- 10 %	0,028-0,036	901 025 405	901 025 405		
			110-120 V AC	+/- 10 %	0,030	901 025 310	901 025 310		
			230-240 V AC	+/- 10 %	0,030	901 025 313	901 025 313		
		green	24 V AC/DC	+/- 10 %	0,028-0,036	901 026 405	901 026 405		
			110-120 V AC	+/- 10 %	0,030	901 026 310	901 026 310		
			230-240 V AC	+/- 10 %	0,030	901 026 313	901 026 313		
		yellow	24 V AC/DC	+/- 10 %	0,028-0,036	901 027 405	901 027 405		
			110-120 V AC	+/- 10 %	0,030	901 027 310	901 027 310		
			230-240 V AC	+/- 10 %	0,030	901 027 313	901 027 313		



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VISUAL MODULES

Type	Beacon type	Lens colour	Nominal voltage	Voltage range (V)	Nominal current (A)	Order number	Item Nr.		
YDF	LED strobe beacon	orange	24 V AC/DC	+/- 10 %	0,035-0,065	901 031 405	901 031 405		
			110-120 V AC	+/- 10 %	0,010	901 031 310	901 031 310		
			230-240 V AC	+/- 10 %	0,010	901 031 313	901 031 313		
		red	24 V AC/DC	+/- 10 %	0,035-0,065	901 032 405	901 032 405		
			110-120 V AC	+/- 10 %	0,010	901 032 310	901 032 310		
			230-240 V AC	+/- 10 %	0,010	901 032 313	901 032 313		
		clear	24 V AC/DC	+/- 10 %	0,035-0,065	901 034 405	901 034 405		
			110-120 V AC	+/- 10 %	0,010	901 034 310	901 034 310		
			230-240 V AC	+/- 10 %	0,010	901 034 313	901 034 313		
		blue	24 V AC/DC	+/- 10 %	0,035-0,065	901 035 405	901 035 405		
			110-120 V AC	+/- 10 %	0,010	901 035 310	901 035 310		
			230-240 V AC	+/- 10 %	0,010	901 035 313	901 035 313		
		green	24 V AC/DC	+/- 10 %	0,035-0,065	901 036 405	901 036 405		
			110-120 V AC	+/- 10 %	0,010	901 036 310	901 036 310		
			230-240 V AC	+/- 10 %	0,010	901 036 313	901 036 313		
		yellow	24 V AC/DC	+/- 10 %	0,035-0,065	901 037 405	901 037 405		
			110-120 V AC	+/- 10 %	0,010	901 037 310	901 037 310		
			230-240 V AC	+/- 10 %	0,010	901 037 313	901 037 313		
		YDC-HP	LED steady beacon	orange	24 V AC/DC	18-26 V AC 18-30 V DC	0,130-0,150	901 051 405	901 051 405
					red	24 V AC/DC	18-26 V AC 18-30 V DC	0,130-0,150	901 052 405
				clear	24 V AC/DC	18-26 V AC 18-30 V DC	0,130-0,150	901 054 405	901 054 405
				blue	24 V AC/DC	18-26 V AC 18-30 V DC	0,130-0,150	901 055 405	901 055 405
				green	24 V AC/DC	18-26 V AC 18-30 V DC	0,130-0,150	901 056 405	901 056 405
				yellow	24 V AC/DC	18-26 V AC 18-30 V DC	0,130-0,150	901 057 405	901 057 405
YFF-HP	LED multi strobe beacon			orange	24 V AC/DC	18-26 V AC 18-30 V DC	0,190-0,250	901 071 405	901 071 405
		red	24 V AC/DC		18-26 V AC 18-30 V DC	0,190-0,250	901 072 405	901 072 405	
		clear	24 V AC/DC	18-26 V AC 18-30 V DC	0,190-0,250	901 074 405	901 074 405		
		blue	24 V AC/DC	18-26 V AC 18-30 V DC	0,190-0,250	901 075 405	901 075 405		
		green	24 V AC/DC	18-26 V AC 18-30 V DC	0,190-0,250	901 076 405	901 076 405		
		yellow	24 V AC/DC	18-26 V AC 18-30 V DC	0,190-0,250	901 077 405	901 077 405		

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AUDIBLE MODULES

Type	Tone	Volume	Nominal voltage	Voltage range (V)	Nominal current (A)	Order number
YDE	Piezo buzzer module steady tone/pulsing tone	90 dB	24 V AC/DC	+/- 10 %	0,065	901 500 405
			110-120 V AC	+/- 10 %	0,031	901 500 310
			230-240 V AC	+/- 10 %	0,032	901 500 313

ORDER DATA - BASE

Type	Type of accessory	Tube length	Order number
YMW	Base for horizontal mounting M20, inside mounting holes		901 570 900
YMS	Base for horizontal mounting with pre-mounted fixing screws		901 571 900
YMF	Base for horizontal mounting with external mounting holes		901 572 900
YMC	Base for horizontal mounting with external mounting holes and integrated 5-pole M12 connector		901 572 911
YMV	Base for vertical mounting for single-sided mounting		901 573 900
YZV	Base for vertical mounting for double-sided mounting		901 574 900
YMR	Tube base 100 mm on aluminium tube with plastic foot	100 mm	901 582 900
	Tube base 250 mm on aluminium tube with plastic foot	250 mm	901 583 900
	Tube base 400 mm on aluminium tube with plastic foot	400 mm	901 584 900
YNW	Tube base NPT 1/2" thread		901 570 950
YSW	Tube base 100 mm on aluminium tube for horizontal mounting with banjo bolt	100 mm	901 592 900
	Tube base 250 mm on aluminium tube for horizontal mounting with banjo bolt	250 mm	901 593 900
	Tube base 400 mm on aluminium tube for horizontal mounting with banjo bolt	400 mm	901 594 900
YFR	Quick mounting system 'foot adapter' 100 mm on aluminium tube with foot adapter		901 562 900
	Quick mounting system 'foot adapter' 250 mm on aluminium tube with foot adapter		901 563 900
	Quick mounting system 'foot adapter' 400 mm on aluminium tube with foot adapter		901 564 900



XWR



XSS



XIB



YEP

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
WYC	Metal bracket for YMC		901 573 910
YEP	Base extension 100 mm long, suitable for all bases		901 800 900



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