

HD

the Design-Tower



Compact





VISUAL-AUDIBLE LED SIGNAL TOWER SYSTEM IN SEMI-CIRCULAR DESIGN

- Modern signal tower design
- Available to order pre-configured or with customised tower configuration
- Range of housing colours: grey, chrome or black
- Models with two to five beacons available



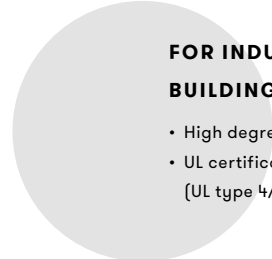
OPTIONAL PIEZO BUZZER

- Can optionally be extended with buzzer with two tones and adjustable volume
- Steady and pulsing tone, 70-90 dB



EXCELLENT SIGNALLING

- Distinct lens pattern with additional mirroring
- From every viewing angle (180°)



FOR INDUSTRIAL AND UNIVERSAL BUILDING TECHNOLOGY APPLICATIONS

- High degree of protection IP65
- UL certification allowing for international use [UL type 4/4X/13]



STATE-OF-THE-ART LED TECHNOLOGY

- LED steady or LED flashing beacon light functions
- Resistant to vibrations and impact, maintenance-free and long-lasting

HD compact Signal tower



Compact

- LED signal tower system in semi-circular design
- Steady or strobe beacon can be selected for every position
- 6 lens colours, 3 housing colours
- Distinct lens structure with mirrored reflector
- Optimal signalling from every viewing angle
- Piezo buzzer optionally available with steady or pulsing tone
- Pre-assembled towers or individual configuration available for 2-5 positions
- For universal applications in industry or building technology
- PLC-suitable
- High degree of protection IP65, UL type 4/4X/13

TECHNICAL DATA

Housing	Ø 90 mm, ABS and Polycarbonate chrome, black (RAL 9005) or grey (RAL 7035)chrome, black (RAL 9005) or grey (RAL 7035)
Lens	Polycarbonate, ribbed inside orange, red, clear, blue, green or yellow
Type of mounting	Wall mounting
Leakage current	0,003 A (PLC-suitable)
Beacon type	LED steady beacon or LED flashing beacon
Light source	LEDs
Strobe/flash frequency	Flashing beacon 2 Hz
Tone	Steady tone or Pulsing tone
Volume	70-90 dB
Tone frequency	2.500 Hz
Duty cycle	100 %
Service life	Light source: 100.000 h
Operating temperature	-25 °C / +50 °C
Degree of protection	IP65 & UL Type 4/4x/13
Weight	2 modules: 273 g/3 modules: 319 g/4 modules: 376 g/5 modules: 419 g



HD



Order number: HD90-Q01
 Colours: red/orange
 Function: LED steady beacon
 Housing colour: grey
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q02
 Colours: red/green
 Function: LED steady beacon
 Housing colour: grey
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q07
 Colours: red/yellow/green
 Function: LED steady beacon
 Housing colour: grey
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q1036
 Colours: red/yellow/green/blue/clear
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: grey
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q1039
 Colours: red/yellow/green/clear
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: grey
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q11
 Colours: red/orange/green
 Function: LED steady beacon
 Housing colour: chrome
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q12
 Colours: red/green
 Function: LED steady beacon
 Housing colour: chrome
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q17
 Colours: red/yellow/green
 Function: LED steady beacon
 Housing colour: chrome
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q21
 Colours: red/orange
 Function: LED steady beacon
 Housing colour: black
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q22
 Colours: red/green
 Function: LED steady beacon
 Housing colour: black
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q27
 Colours: red/yellow/green
 Function: LED steady beacon
 Housing colour: black
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q31
 Colours: red/orange/green
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: grey
 Nominal voltage: 24 V AC/DC

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Order number: HD90-Q32
 Colours: red/green
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: grey
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q34
 Colours: red/orange/green/clear
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: grey
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q35
 Colours: red/orange/green/blue/clear
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: grey
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q36
 Colours: red/orange/green/blue/clear
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: grey
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q37
 Colours: red/yellow/green
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: grey
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q39
 Colours: red/yellow/green/blue
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: grey
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q41
 Colours: red/orange/green
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: chrome
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q42
 Colours: red/green
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: chrome
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q47
 Colours: red/yellow/green
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: chrome
 Nominal voltage: 24 V AC/DC



Order number: HD90-Q51
 Colours: red/orange/green
 Function: LED steady beacon
 Housing colour: grey
 Nominal voltage: 230-240 V AC



Order number: HD90-Q52
 Colours: red/green
 Function: LED steady beacon
 Housing colour: grey
 Nominal voltage: 230-240 V AC



Order number: HD90-Q57
 Colours: red/yellow/green
 Function: LED steady beacon
 Housing colour: grey
 Nominal voltage: 230-240 V AC

HD



Order number: HD90-Q61
 Colours: red/orange/green
 Function: LED steady beacon
 Housing colour: chrome
 Nominal voltage: 230-240 V AC



Order number: HD90-Q62
 Colours: red/green
 Function: LED steady beacon
 Housing colour: chrome
 Nominal voltage: 230-240 V AC



Order number: HD90-Q67
 Colours: red/yellow/green
 Function: LED steady beacon
 Housing colour: chrome
 Nominal voltage: 230-240 V AC



Order number: HD90-Q71
 Colours: red/orange/green
 Function: LED steady beacon
 Housing colour: black
 Nominal voltage: 230-240 V AC



Order number: HD90-Q72
 Colours: red/green
 Function: LED steady beacon
 Housing colour: black
 Nominal voltage: 230-240 V AC



Order number: HD90-Q77
 Colours: red/yellow/green
 Function: LED steady beacon
 Housing colour: black
 Nominal voltage: 230-240 V AC



Order number: HD90-Q81
 Colours: red/orange/green
 Function: LED steady beacon
 Housing colour: grey
 Nominal voltage: 230-240 V AC



Order number: HD90-Q82
 Colours: red/green
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: grey
 Nominal voltage: 230-240 V AC



Order number: HD90-Q87
 Colours: red/yellow/green
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: grey
 Nominal voltage: 230-240 V AC



Order number: HD90-Q91
 Colours: red/orange/green
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: chrome
 Nominal voltage: 230-240 V AC



Order number: HD90-Q92
 Colours: red/green
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: chrome
 Nominal voltage: 230-240 V AC



Order number: HD90-Q951
 Colours: red/orange/green
 Function: LED steady beacon, buzzer steady or pulsing tone
 Housing colour: black
 Nominal voltage: 24 V AC/DC

HD



Order number: HD90-Q952
Colours: red/green
Function: LED steady beacon, buzzer steady or pulsing tone
Housing colour: black
Nominal voltage: 24 V AC/DC



Order number: HD90-Q957
Colours: red/yellow/green
Function: LED steady beacon, buzzer steady or pulsing tone
Housing colour: black
Nominal voltage: 24 V AC/DC



Order number: HD90-Q97
Colours: red/yellow/green
Function: LED steady beacon, buzzer steady or pulsing tone
Housing colour: chrome
Nominal voltage: 230-240 V AC



Order number: HD90-Q991
Colours: red/orange/green
Function: LED steady beacon, buzzer steady or pulsing tone
Housing colour: black
Nominal voltage: 230-240 V AC



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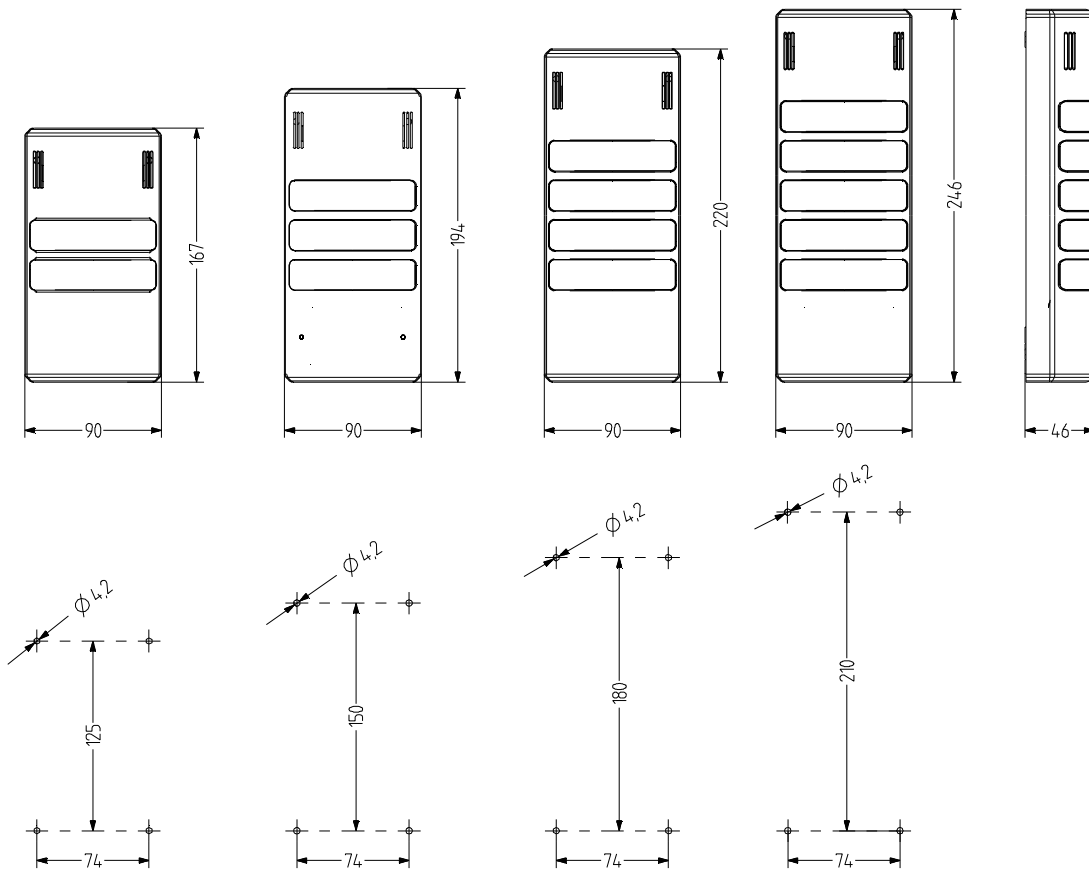


Order number: HD90-Q992
Colours: red/green
Function: LED steady beacon, buzzer steady or pulsing tone
Housing colour: black
Nominal voltage: 230-240 V AC



Order number: HD90-Q997
Colours: red/yellow/green
Function: LED steady beacon, buzzer steady or pulsing tone
Housing colour: black
Nominal voltage: 230-240 V AC

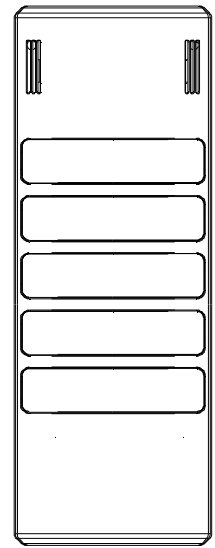
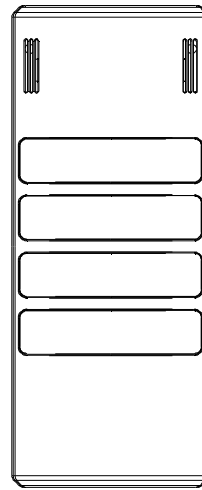
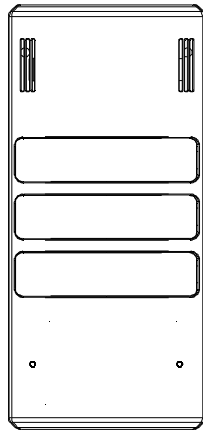
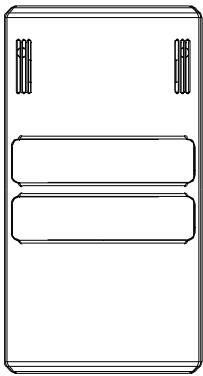
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ORDER NUMBER LOGIC

An order number for HD always begins with "HD". Select your preferred configuration from each category and enter your choices in the numbered boxes. A configuration for a module is always made up of 2 parts. The module type (a) and the lens colour (b).

An example of an order number would be:

HD C 24 L6 B7 L2 B5 L4 DZ

HOUSING COLOUR (1)

grey	G
chrome	C
black	B

NOMINAL VOLTAGE (2)

12 V AC/DC	12
24 V AC/DC	24
110/120 V AC	10
230/240 V AC	20

MODULES (3-8)

Module type (a)

HLL	LED steady light	L
HLB	LED flashing light	B
HDZ	Piezo buzzer, continuous and pulsing tone, 70-90 dB	DZ

Lens colour (b)

orange	1
red	2
clear	4
blue	5
green	6
yellow	7

