

Harmony™ XVU 60 mm modular tower lights

Catalog
2013





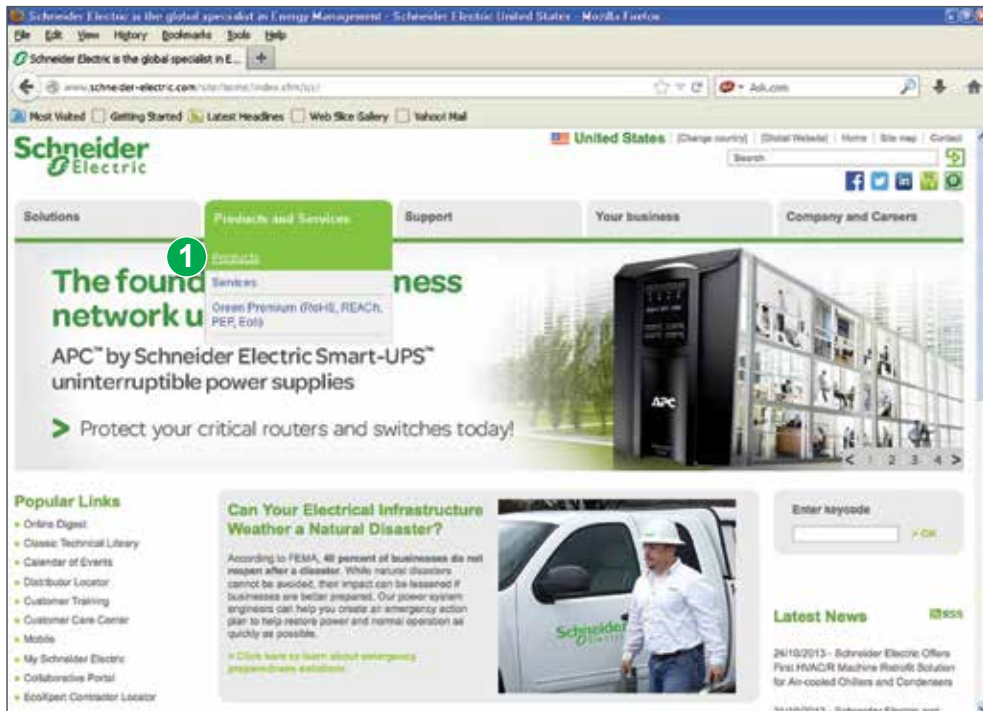
Harmony™ XVU 60 mm modular tower lights

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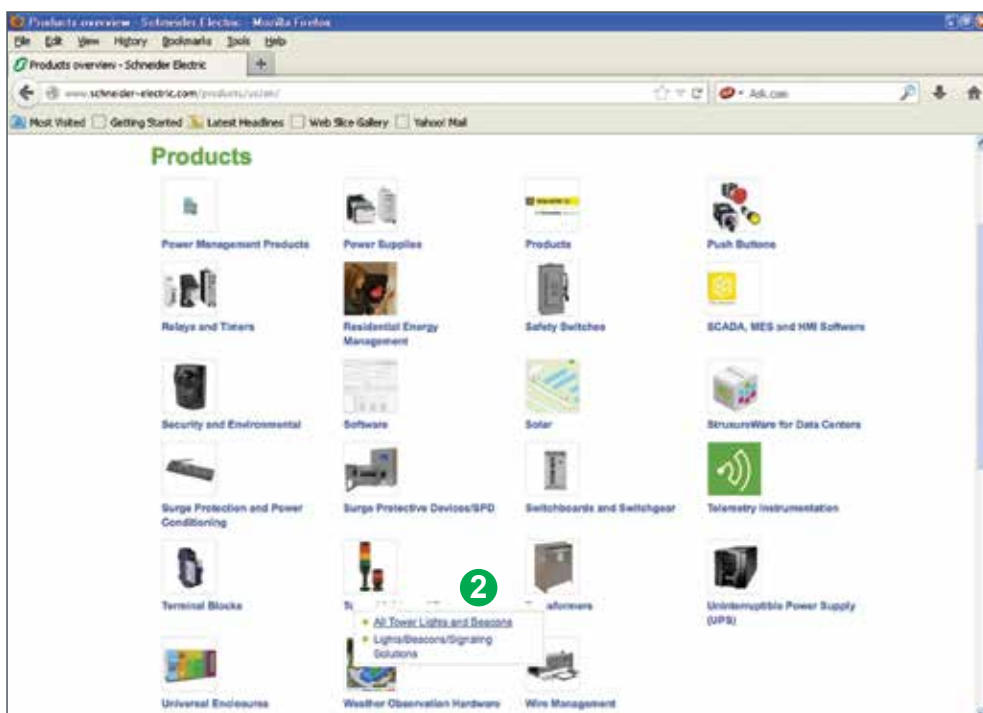


Go online to www.schneider-electric.com for information about Harmony™ products listed in this catalog, including:

- 1 Go to: www.schneider-electric.com and select **“Products”** on the **“Products and Services”** tab.



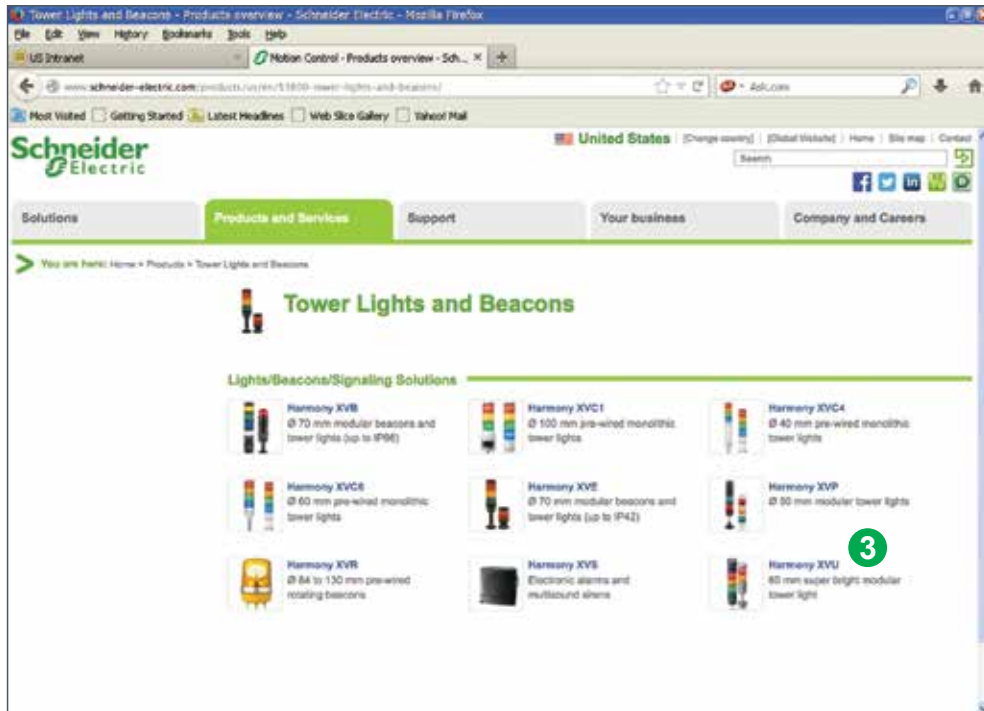
- 2 On the **“Products”** page, find the **“Tower Lights and Beacons”** icon and select **“All Tower Lights and Beacons”**.



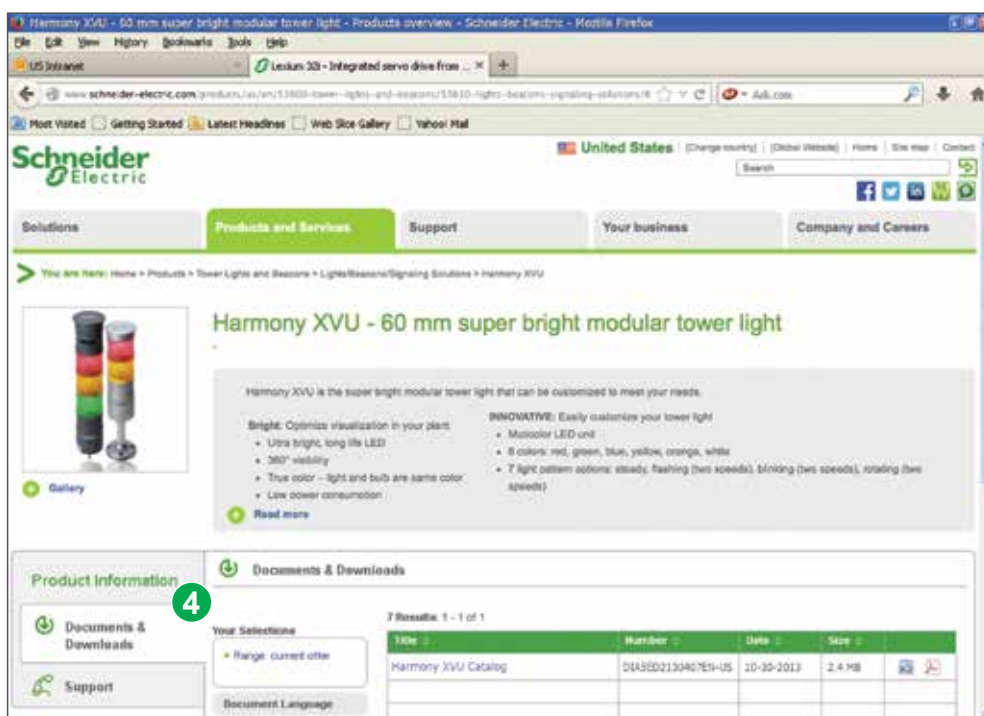
> Specifications > Dimensions > References
> Curves > Links to user guides and CAD files



3 On the “Tower Lights and Beacons” page, select “Harmony XVU”.



4 Explore the Harmony XVU product page, including the “Product Information” tabs: “Documents & Downloads” and “Support”.



Harmony™ XVU 60 mm modular tower lights

A new generation of modular tower lights

Harmony™ XVU 60 mm modular tower lights are 360° pilot lights that are used for a wide range of applications. These tower lights are visual and audible signaling units that combine innovative features, high performance and simplicity.

High performance

- > True color and homogeneous light.
- > Improved visibility.
- > LED super-bright flash with long life.



The mix of homogeneous light and true color improves the aesthetics of this tower light.

Simplicity

- > Easy assembly without the use of any tools.
- > Convenient mounting option with: direct mounting, pole mounting and three-in-one adjustable wall mounting.



Using the indicator marks, these modules are simple and quick to assemble.

Innovative

These tower lights offer innovative features including:

- > Multi-color LED module with a choice of six colors and four light patterns.
- > Pole mounting with height adjustable tube. Height of tower light can be set accordingly without any tools.
- > Flexible mounting option for use on horizontal or vertical support.

Multi-color LED module



Height adjustable pole mounting



Flexible mounting option



Harmony™ XVU 60 mm modular tower lights

Aesthetic design

- > Available in black and metallic silver body.
- > Reduced diameter (Ø 60 mm/2.362 in.) makes them suitable for small equipment
- > Unique design distinguishes them from other tower lights.



Available in black and metallic silver body

Durable construction

- > Resistant to dust and water and are UL/CSA compliant.
- > Illuminated units have IP 65 degree of protection, the protection needed against cutting oil.
- > Audible units have IP 54 degree of protection.

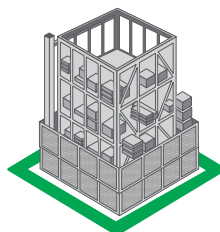


IP 65
IP 54

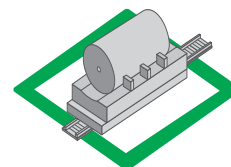
Degree of protection and compliance

→ Industrial applications

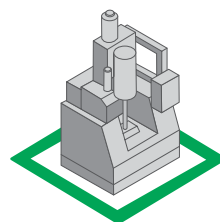
Ideally suited for automotive, machine tools, material handling and packaging equipment.



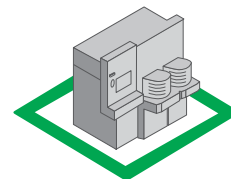
Automotive



Material handling



Machine tools



Electronic equipment



 +  = User friendly

Harmony® type XV

Monolithic tower lights



Type of products		Complete miniature beacons	Pre-assembled and pre-cabled tower lights
Diameter		Ø 45 mm/1.75 in.	Ø 40 mm/1.57 in.
Degree of protection conforming to IEC 60529		IP 40	IP 54 (flat surface installation) IP 23 (vertical surface installation)
Type of signalling	Steady	Yes	Yes
	Flashing	–	Yes
	“Flash”	Yes	–
	Sound	–	With buzzer
Light sources	Incandescent bulb	Yes	–
	LED bulb	–	–
	Integral LED	–	Yes
	“Flash” discharge tube	Yes	–
	Halogen bulb	–	–
Colors of illuminated units		<input type="checkbox"/> Green <input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Blue <input type="checkbox"/> Clear <input type="checkbox"/> Yellow	<input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Clear
Connection		Screw clamp terminals	Flying leads, length 450 mm/17.71 in. to 900 mm/35.43 in. according to model
Support panel drilling or cut-out		3 x Ø 3.3 mm/0.13 in. or M3	Mounting on support tube with bracket: 2 x Ø 9 mm/0.35 in. Direct mounting on horizontal support: 3 x Ø 5 mm/0.20 in. Other mounting possibilities with accessories
Type references		XVDLS	XVC4

Monolithic tower lights		Modular tower lights	
			
Pre-assembled and pre-cabled tower lights	Pre-assembled and pre-cabled tower lights	Pre-assembled and pre-cabled USB tower lights	Tower lights for customer assembly of up to 5 units.
Ø 60 mm/2.36 in. IP 54 (flat surface installation) IP 23 (vertical surface installation)	Ø 100 mm/3.94 in. IP 54 (flat surface installation)	Ø 60 mm/2.36 in. IP 42	Ø 60 mm/2.36 in. IP 65 for illuminated units IP 54 for audible units IP 55 for flexible mounting option
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
–	–	–	Yes
With buzzer	With siren or buzzer	With buzzer (volume control and alarm type can be set with HMI)	Yes
–	–	–	–
–	–	–	–
Yes	Yes	Yes	Yes
–	–	–	–
–	–	–	–
<input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Clear	<input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Clear	Multi-color LEDs (many possible combinations can be set with HMI) <input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Blue	<input type="checkbox"/> Green <input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Blue <input type="checkbox"/> White <input type="checkbox"/> Yellow (only for multi-color unit with above colors)
Flying leads, length 450 mm/17.71 in. to 850 mm/33.46 in. according to model	Flying leads, length 500 mm/19.68 in.	USB power cable: - 300 mm/11.81 in. for tube mounting - 400 mm/15.75 in. for direct mounting	Spring cage connection terminals
Mounting on support tube with bracket: 2 x Ø 11 mm/0.43 in. Direct mounting on horizontal support: 3 x Ø 5 mm/0.20 in. Other mounting possibilities with accessories	Direct mounting on horizontal support: - 3 x Ø 6 mm/0.24 in. (without siren) - 3 x Ø 7 mm/0.28 in. (with siren) Other mounting possibilities with accessories	Mounting on support tube with mounting plate: 4 x Ø 6 mm/0.24 in. Direct mounting on horizontal support: 3 x Ø 5 mm/0.20 in.	Mounting on support tube and adjustable support tube: 4 x Ø 6 mm/0.24 in. Direct mounting and flexible wall mounting: 3 x Ø 5 mm/0.196 in.
XVC6	XVC1	XVGU	XVU

Harmony® type XV		Modular tower lights	Rotating beacons	Sound solutions
Type of products		Illuminated beacons Variable composition tower lights for customer assembly of up to 5 units	Pre-cabled rotating beacons	Sirens and electronic alarms
Diameter		Ø 70 mm/2.76 in.	Ø 84 mm/3.31 in. to Ø 130 mm/5.12 in.	–
Degree of protection conforming to IEC 60529		IP 65 (mounted on mounting base XVBZ0●) IP 66 (mounted on base unit)	Ø 84 mm/3.31 in. and Ø 106 mm/4.17 in.: IP 23 (IP 65 with accessory) Ø 120 mm/4.72 in.: IP 23 Ø 130 mm/5.12 in.: IP 66 and IP 67 (depending on voltage)	IP 53 (sirens) IP 54 (electronic alarms)
Type of signalling	Steady	Yes	Yes	–
	Flashing	Yes	–	–
	“Flash”	Yes	–	–
	Sound	Yes	Yes	Yes
Light sources	Incandescent bulb	Yes	–	–
	LED bulb	“PROTECTED LED”	“Super Bright”	–
	Integral LED	“PROTECTED LED”	–	–
	“Flash” discharge tube	Yes	–	–
	Halogen bulb	–	Yes	–
Colors of illuminated units		<input type="checkbox"/> Green <input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Blue <input type="checkbox"/> Clear <input type="checkbox"/> Yellow	<input type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Blue	–
Connection		Screw clamp terminals	Flying leads, length 400 mm/15.75 in. (except XVR08: 500 mm/19.68 in.)	Screw clamp terminals (except XVS14: flying leads, length 500 mm/19.68 in.)
Support panel drilling or cut-out		Mounting on support tube: 4 x Ø 5.5 mm/0.22 in. or M5 Vertical mounting: 3 x Ø 5 mm/0.20 in. or M5 Direct mounting: 2 x Ø 4.5 mm/0.18 in. or M4	Depending on model: - XVR08 (Ø 84 mm/3.31 in.): 3 x Ø 5 mm/0.20 in. - XVR10 (Ø 106 mm/5.12 in.): 3 x Ø 5 mm/0.20 in. - XVR12 (Ø 120 mm/4.72 in.): 3 x Ø 6 mm/0.24 in. - XVR13 (Ø 130 mm/5.12 in.): 3 x Ø 9 mm/0.35 in. - XVR13●●●L (Ø 130 mm/5.12 in.): 3 x Ø 7 mm/0.28 in.	3 x Ø 6.5 mm/0.25 in.
Type references		XVBL, XVBC	XVR	XVS

Harmony™ XVU 60 mm modular tower lights

Tower lights for customer assembly (up to 5 units)

Introduction

Harmony™ XVU 60 mm modular tower lights are visual and audible signaling units indicating various states, operation sequences or installations of a machine. Their reduced diameter (\varnothing 60 mm/2.362 in.) makes them suitable for use on small equipment, and their aesthetically pleasing design distinguishes them from other tower lights. Their availability in black and metallic silver body makes them ideal for use in automotive, machine tools, material handling and packaging applications.

This product range features:

- "Super Bright" LED
- Easy installation and mounting without use of any tools
- Simple assembly due to the indicator marks on the units
- Steady, blinking, flashing, or rotating multi-colored LED unit for energy-efficient, high-priority signaling. Colors and light patterns can be selected using 2 dip switches on top of the unit).
- Height adjustment tube that solves the problem of adjusting the height of the tower light
- Flexible mounting option supports various customer needs for installation (for use on horizontal or vertical support)
- Power integrated base modules with two voltage solutions (\approx 24V and \sim 100 to 240V) reduces the stock reference for LED units
- High degree of protection against dust and water

Illuminated LED units

The XVU product range provides the following benefits:

- Units are visible throughout 360°
- Innovative mirror design of LED units improves the brightness
- Pure colors of LED units eliminates confusion between colors
- Ultra bright LED technology consumes less power and has long life
- Continuous usage of LEDs up to 40,000 operating hours (1)
- Ultra brightness in 40° visualization
- Homogenous light improves luminosity from side view
- The mixture of homogenous light and pure color improves the aesthetics of tower light and machine
- Polycarbonate lens material for better shock resistance

Mounting

- Height adjustable tube with an adjustment from 210 to 385 mm/ 8.268 to 15.157 in., mounted on a mounting plate for use on a horizontal support.
- Flexible mounting option for use on horizontal or vertical support.
- Direct mounting (with direct mounting plate XVUZ01).

Signaling type

- For illuminated units with green, red, orange, blue or white color: steady
- For illuminated units with multi-color: steady, blinking, flashing (slow or fast) and rotating (slow or fast).
- For audible unit: buzzer sound, 85dB (at 1m, 4 configurations of audible signal).

Environment

The degree of protection for XVU tower lights are:

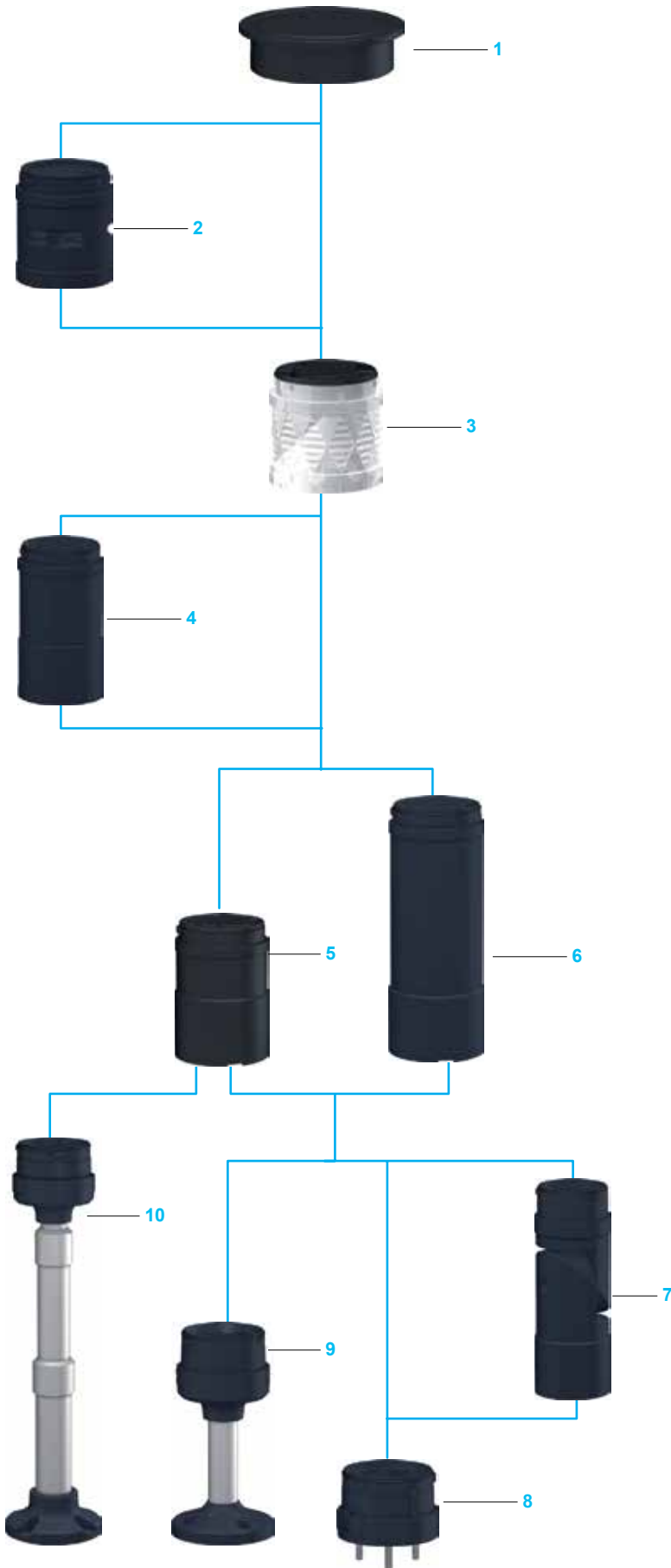
- IP 65 for illuminated units,
- IP 54 for audible units,
- IP 55 for flexible mounting option,
- Product certifications: UL, CSA, CE.

The whole range conforms with EN/IEC 60947-5-1 standard. Products are CE, UL and CSA certified.

(1) Until the brightness reduces to 50% of the initial value when lit at complete direct current of the rated voltage in 25 °C/77 °F environment.

Harmony™ XVU 60 mm modular tower lights

Tower lights for customer assembly (up to 5 units)



Description

Tower lights

Harmony™ XVU tower lights are customer-assembled products that include:

- 1 Top cover (black or silver).
- 2 Audible unit (black or silver) (1).
- 3 1 to 5 LED illuminated units (Colors: Green, Red, Orange, Blue, White and Yellow with multi-color LED unit).
- 4 Body extender (black or silver).
- 5 DC body unit (black or silver).
- 6 AC body unit (black or silver).
- 7 Flexible mounting option.
- 8 Direct mounting plate (black or silver).
- 9 100 mm/3.937 in. pole with mounting plate (black or silver).
- 10 Height adjustment pole from 210 to 385 mm/8.268 to 15.157 in. (2)

Composition

- Harmony XVU tower lights are customer-assembled signaling units that are mounted on a body unit and a mounting solution.
- Maximum of 5 illuminated units or 4 illuminated units with 1 audible unit can be assembled.
- Illuminated or audible unit stacks vertically.
- Using the indicator marks on these units, they can be easily assembled.
- Electrical connections between each unit are made automatically because of the mechanical assembly.
- Signaling units are identical in size and their positioning is unrestricted.

Mounting

Mounted into support panel using direct mounting plate, 100mm/3.937 in. pole with mounting plate or adjustment pole.

Cabling

By means of spring cage connection terminal block, incorporated in mounting unit (Direct mounting plate, pole with plate, adjustment pole)

(1) Always mounted on the top.

(2) Only for DC body unit.

Harmony™ XVU 60 mm modular tower lights

Tower lights for customer assembly (up to 5 units)
Body units

Specifications		Body units				
Reference	XVUC21B	XVUC21BQ	XVUC21M	XVUC21MP	XVUC21MQP	
						
Main						
Range of product	Harmony XVU					
Product or component type	Modular tower light					
Beacon or indicator bank unit type	Base unit					
Mounting diameter	60 mm					
Component name	XVU					
Housing color	Black	Silver	Black	Black	Silver	
Light source	—					
Device application	—					
Accessory/separate part type	—					
Accessory/separate part category	—					
Complementary						
Kit composition	Cover, base unit		Cover, base unit (NPN)	Cover, base unit (PNP)		
Mounting mode	Direct or tube mounting					
Material	PC (polycarbonate) V-0 flame retardant conforming to UL 94 ABS (acrylonitrile butadiene-styrene) V-0 flame retardant conforming to UL 94 PBT (polybutylene terephthalate) V-0 flame retardant conforming to UL 94					
Signaling type	—					
Localization on device	—					
Product compatibility	—					
Assembly style	Customer assembly, up to 5 units					
[Us] rated supply voltage	24 Vac/Vdc (tolerance: -15...10%)		100...240 Vac (tolerance: +/-10%)			
Power dissipation in W	—					
Acoustic level	—					
Sound frequency	—					
Current consumption	≤400 mA					
Flashing frequency	—					
Length	77 mm		151 mm			
Product weight	0.11 kg		0.235 kg			
Environment						
Product certifications	CE, CSA, RoHS, UL					
Ambient air temperature for storage	-40...70 °C		-20...65 °C			
Ambient air temperature for operation	-25...50 °C		-25...50 °C			
Vibration resistance	2 gn					
IP degree of protection	IP65					
Class of protection against electric shock	—		Class II on base unit conforming to IEC 61140			

Harmony™ XVU 60 mm modular tower lights

Tower lights for customer assembly (up to 5 units)
Illuminated LED units

Specifications	Illuminated LED units					
Reference	XVUC23	XVUC24	XVUC25	XVUC26	XVUC27	XVUC29



Main						
Range of product	Harmony XVU					
Product or component type	Modular tower light					
Beacon or indicator bank unit type	LED unit					
Mounting diameter	60 mm					
Component name	XVU					
Housing color	—					
Light source	LED green	LED red	LED orange	LED blue	LED white	LED multi-color
Device application	Food and beverage, Semiconductor machinery, Automotive					
Accessory/separate part type	—					
Accessory/separate part category	—					

Complementary						
Kit composition	—					
Mounting mode	—					
Material	PC (polycarbonate) V-0 flame retardant conforming to UL 94 PC (polycarbonate) V-2 flame retardant conforming to UL 94					
Signaling type	Steady				Flashing, Steady, Blinking, Rotating	
Localization on device	—					
Product compatibility	—					
Assembly style	Customer assembly, up to 5 units					
[Us] rated supply voltage	24 Vac/Vdc					
Power dissipation in W	≤ 2.5 W	≤ 2 W		≤ 2.5 W		≤ 1.5 W
Acoustic level	—					
Sound frequency	—					
Current consumption	≤ 50 mA	≤ 40 mA		≤ 50 mA		≤ 70 mA
Flashing frequency	—				3.3 Hz fast rotating 2.33 Hz slow rotating 7.26 Hz fast flashing 0.23 Hz slow flashing 1 Hz blinking	
Length	50 mm					
Product weight	0.064 kg					

Environment	
Product certifications	CE, CSA, RoHS, UL
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-25...50 °C
Vibration resistance	2 gn
IP degree of protection	IP65
Class of protection against electric shock	—

Harmony™ XVU 60 mm modular tower lights

Tower lights for customer assembly (up to 5 units)
Buzzer units, Options

Specifications	Buzzer units		Options (Body extenders)	
Reference	XVUC9S	XVUC9SQ	XVUC020	XVUC020Q



Main		
Range of product	Harmony XVU	
Product or component type	Modular tower light	
Beacon or indicator bank unit type	Buzzer unit	
Mounting diameter	60 mm	
Component name	XVU	
Housing color	Black	Silver
Light source	—	
Device application	—	
Accessory/separate part type	—	
Accessory/separate part category	—	

Complementary		
Kit composition	—	
Mounting mode	—	
Material	PC (polycarbonate) V-0 flame retardant conforming to UL 94 ABS (acrylonitrile butadiene-styrene) V-0 flame retardant conforming to UL 94 PBT (polybutylene terephthalate) V-0 flame retardant conforming to UL 94	ABS (acrylonitrile butadiene-styrene) V-0 flame retardant conforming to UL 94 PBT (polybutylene terephthalate) V-0 flame retardant conforming to UL 94
Signaling type	Continuous or intermittent buzzer	
Localization on device	Top	
Product compatibility	—	
Assembly style	Customer assembly	
[Us] rated supply voltage	24 Vac/Vdc	
Power dissipation in W	≤ 1.7 W	
Acoustic level	85 dB/1 m	
Sound frequency	2635 Hz	
Current consumption	≤ 70 mA	
Flashing frequency	—	
Length	58 mm	
Product weight	0.077 kg	

Environment		
Product certifications	CE, CSA, RoHS, UL	
Ambient air temperature for storage	-40...70 °C	
Ambient air temperature for operation	-25...50 °C	
Vibration resistance	—	
IP degree of protection	IP54	
Class of protection against electric shock	—	

Harmony™ XVU 60 mm modular tower lights

Tower lights for customer assembly (up to 5 units)
Illuminated and audible units



XVUC23



XVUC26



XVUC29



XVUC9S



XVUC9SQ

Illuminated LED units: IP 65

Description	Signaling Type	Charateristics		Color	Reference	Weight kg/lb
		Voltage	Power			
High brightness LED units	Steady	24 V	2.5 W	Green	XVUC23	0.064/0.141
		24 V	2.0 W	Red	XVUC24	0.064/0.141
		24 V	2.0 W	Orange	XVUC25	0.064/0.141
		24 V	2.5 W	Blue	XVUC26	0.064/0.141
		24 V	2.5 W	White	XVUC27	0.064/0.141
	Steady/ blinking/ flashing/ rotating	24 V	1.5 W	Multi-color (Green, Red, Orange, Blue, White and Yellow)	XVUC29	0.064/0.141

Audible units: IP 54

Description	Specifications		Color	Reference	Weight kg/lb
	Voltage	Power			
Buzzer, adjustable 70...85 dB at 1 m (4 configurations of audible signal)	24 V	1.7 W	Black	XVUC9S	0.077/0.170
			Silver	XVUC9SQ	0.077/0.170

Harmony™ XVU 60 mm modular tower lights

Tower lights for customer assembly (up to 5 units)
Body units and accessories



XVUC21BQ

XVUC21M

Body units: IP 65

Description	Voltage	Color	Reference	Weight kg/lb
Body unit (1) (Includes top cover)	≈ 24V	Black	XVUC21B	0.110/0.243
		Silver	XVUC21BQ	0.110/0.243
	≈ 100 to 240V	Black	XVUC21M (2)	0.235/0.518
		Black	XVUC21MP (3)	0.235/0.518
		Silver	XVUC21MQP (3)	0.235/0.518



XVUZ01Q

XVUC020

XVUZ02

XVUZ05

XVUZ06

Accessories

Description	Voltage	Color	Reference	Weight kg/lb
Body extender	≈ 24V	Black	XVUC020	0.093/0.205
		Silver	XVUC020Q	0.093/0.205
Direct mounting plate		Black	XVUZ01	0.063/0.139
		Silver	XVUZ01Q	0.063/0.139
Aluminium mounting plate with 100 mm pole		Black	XVUZ02	0.132/0.291
		Silver	XVUZ02Q	0.132/0.291
Aluminium adjustment pole + mounting plate for height adjustment (4)		Black	XVUZ05	0.253/0.558
Flexible mounting option for use on horizontal or vertical support, IP 55		Black	XVUZ06	0.193/0.425

(1) Direct mounting plate XVUZ01● needed for direct mounting.

(2) NPN type

(3) PNP type

(4) Only for use with DC body unit.

X	
XVUC9S	16
XVUC9SQ	16
XVUC020	17
XVUC020Q	17
XVUC21B	17
XVUC21BQ	17
XVUC21M	17
XVUC21MP	17
XVUC21MQP	17
XVUC23	16
XVUC24	16
XVUC25	16
XVUC26	16
XVUC27	16
XVUC29	16
XVUZ01	17
XVUZ01Q	17
XVUZ02	17
XVUZ02Q	17
XVUZ05	17
XVUZ06	17

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