

Non-Sparking Explosion Proof LED Tower Lights

ST45ML-Ex / STB45ML-Ex

Built-in buzzer Non-sparking explosion proof LED tower lights suitable for use in zone 2 hazardous areas



ST45ML-Ex

PRODUCT SPECIFICATION

ST45ML-Ex | STB45ML-Ex

Materials

Lens-PC, Housing-PC, Mounting housing-AI, Cover-PC/AI

Ambient operating temperature $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$

Protection rating IP54

Explosion protection rating

KCs- Ex nR II T6 IP54 (Layer2-3)

NEPSI, CCC -Ex nR IIC T6 Gc (Layer1-5)

KCs - Ex nR II T4 IP54 (Customization, Layer1-5)

- Non-sparking explosion protected high-intensity LED steady tower lights
 - Excellent distance visibility by using a special reflector to arrogate the light from the LED filament
 - Reduced maintenance with use of long-lasting LED light source
 - Lens and housing are made of polycarbonate with excellent durability, suitable for potentially hazardous and explosive environments
 - Can be used for Zone 2 application with explosion proof rating of nR
- ※ Zone2 : Equipment is capable of operating under abnormal high risk environmental conditions for a short duration

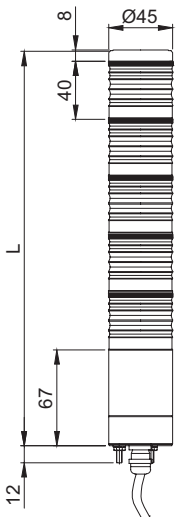
ST45ML-Ex Non-Sparking Explosion Proof LED Tower Light

Model number	Layer	Voltage	Certificates	Weight	Color
ST45ML-Ex ST45ML	1	DC12V	CCC	0.19kg	R-Red
		DC24V	Ex NEPSI	0.19kg	
	2	DC12V		0.24kg	R-Red G-Green
		DC24V	KCs	0.24kg	
	3	DC12V	CCC	0.29kg	R-Red A-Amber G-Green
		DC24V	Ex NEPSI	0.29kg	
	4	DC12V		0.32kg	R-Red A-Amber G-Green B-Blue
		DC24V	CCC	0.32kg	
	5	DC12V	Ex NEPSI	0.36kg	R-Red A-Amber G-Green B-Blue W-White
		DC24V		0.36kg	

Technical Diagram

Units: mm

• ST45ML-Ex



LAYER	L
1	115
2	155
3	195
4	235
5	275



Light source current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	24mA	12mA



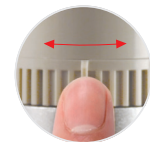
STB45ML-Ex Built-in Buzzer Non-Sparking Explosion Proof Tower Lights

Model number	Layer	Voltage	Certificates	Weight	Color
STB45ML-Ex STB45ML	1	DC12V	CCC	0.26kg	● R-Red
		DC24V	EA NEPSI	0.26kg	
	2	DC12V	CCC	0.30kg	● R-Red
		DC24V	CCC	0.30kg	● G-Green
	3	DC12V	EA NEPSI	0.34kg	● R-Red
		DC24V	CE	0.34kg	● A-Amber ● G-Green
	4	DC12V		0.38kg	● R-Red ● A-Amber ● G-Green
		DC24V	CCC	0.38kg	● B-Blue
	5	DC12V	EA NEPSI	0.42kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.42kg	● B-Blue ○ W-White



STB45ML-Ex

- Sound volume adjustable by volume control lever, Sound volume: Max.83dB at 1m
- ※ CE compliant: DC24V



Sound volume adjustable by volume control lever

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	20mA	10mA
Buzzer current	20mA	30mA

Ordering Specification

· KCs Certificates - Ex nR II T6

STB45ML3	Ex	12	R	KCs
[Model number]	[Explosion Proof]	[Voltage]	[Color]	[Certificates]
ST45ML2(2 layers) STB45ML2(2 layers)		12-DC12V 24-DC24V	● R-Red ● G-Green	KCs
ST45ML3(3 layers) STB45ML3(3 layers)			● R-Red ● A-Amber ● G-Green	

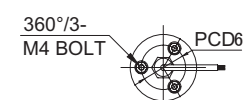
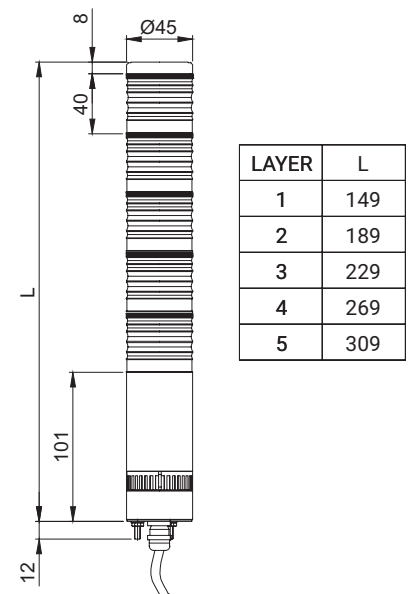
· CCC Certificates - Ex nR IIC T6 Gc

STB45ML	3	12	R	CCC/NEPSI
[Model number]	[Layer]	[Voltage]	[Color]	[Certificates]
ST45ML STB45ML	1-1Layer 2-2Layers 3-3Layers 4-4Layers 5-5Layers	12-DC12V 24-DC24V	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White	CCC(NEPSI)

Technical Diagram

Units: mm

· STB45ML-Ex



Cautions in use of explosion proof tower lights

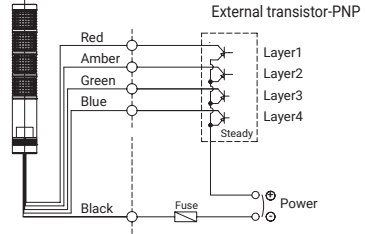
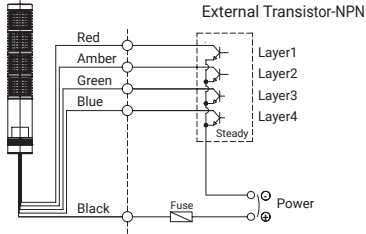
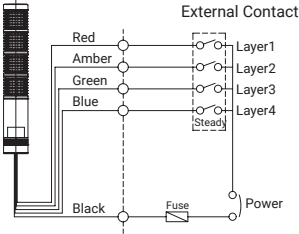
- Contact structure of an explosion proof product must be a qualified part we provide, please do not disassemble, assemble, modify or repair arbitrarily.

Non-Sparking Explosion Proof LED Tower Lights

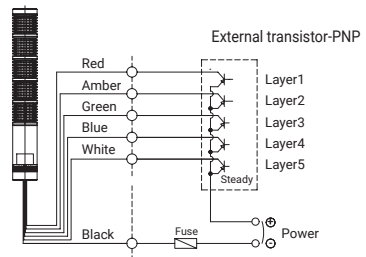
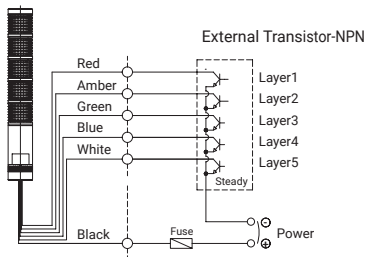
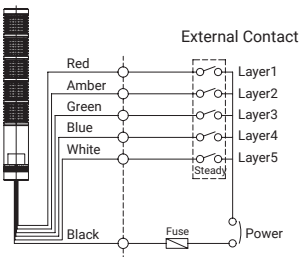
ST45ML-Ex / STB45ML-Ex

Wiring Instructions

• ST45ML-Ex-4

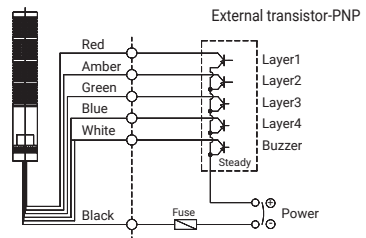
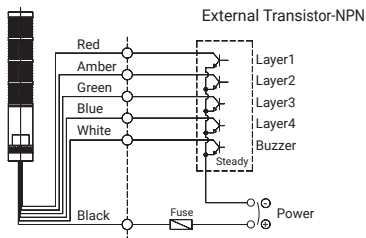
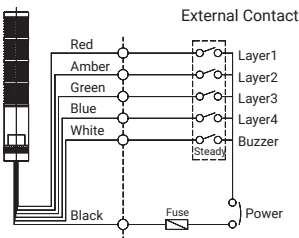


• ST45ML-Ex-5

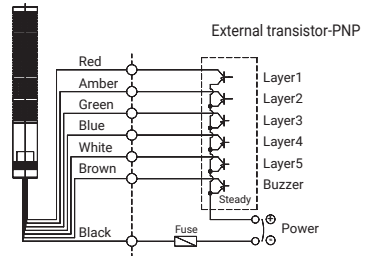
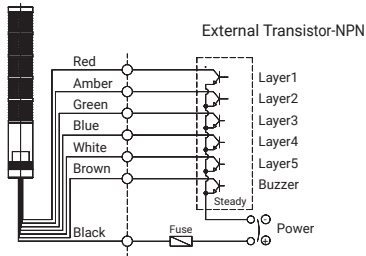
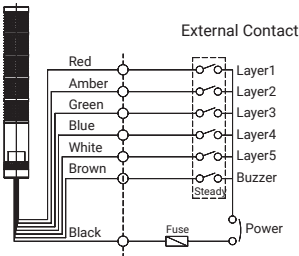


• External power line/External signal line - UL580L AWM2464 22AWG

• STB45ML-Ex-4



• STB45ML-Ex-5



• External power line/External signal line - UL580L AWM2464 22AWG