

Non Sparking Explosion Proof LED Tower Lights

ST45ML-Ex



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-Al, Cover-PC/Al

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



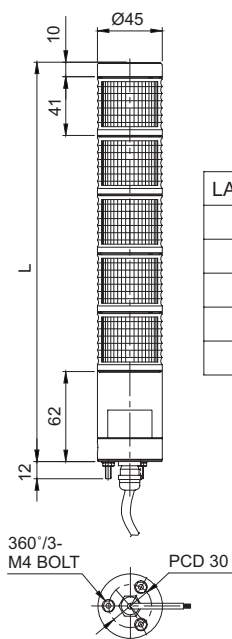
ST45ML-Ex Non-Sparking Explosion Proof LED Tower Light

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

Technical Diagram

Units: mm

• ST45ML-Ex

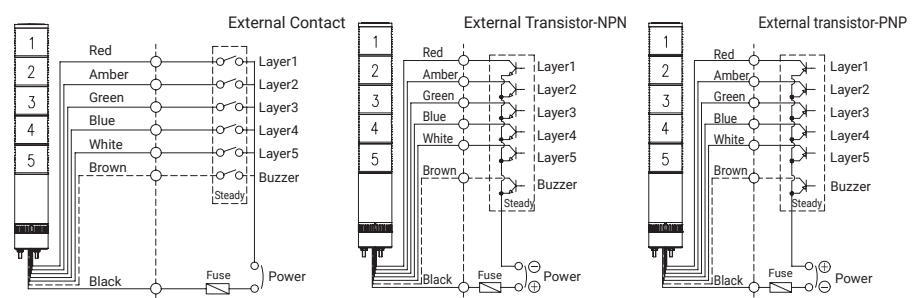


Light source current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	0.024A	0.012A

Wiring Instructions

• ST45ML-Ex-DC / STB45ML-Ex-DC



Built-in Buzzer Non-Sparking Explosion Proof Tower Lights

STB45ML-Ex



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

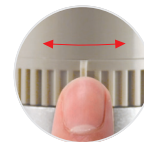
Model number	Layer	Voltage	Certificates	Weight	Color
STB45ML-Ex STB45ML	1	DC12V	CCC	0.26kg	● R-Red
		DC24V	Ex nR IIC T6 Gc	0.26kg	
	2	DC12V	KCs	0.30kg	● R-Red
		DC24V		0.30kg	● G-Green
	3	DC12V	CCC	0.34kg	● R-Red
		DC24V		0.34kg	● A-Amber ● G-Green
	4	DC12V	CCC	0.38kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.38kg	● B-Blue
	5	DC12V	CCC	0.42kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.42kg	● B-Blue ● W-White

· Sound volume adjustable by volume control lever, Sound volume: Max.83dB at 1m

※ CE compliant: DC24V



STB45ML-Ex



Sound volume adjustable by volume control lever

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	0.020A	0.010A
Buzzer current	0.020A	0.030A

Ordering Specification

· KCs Certificates - Ex nR II T6

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

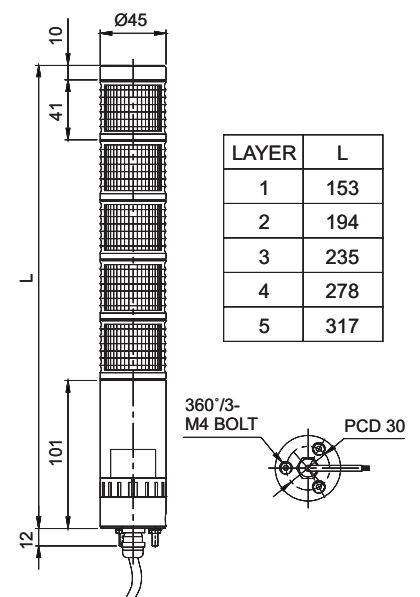
· CCC Certificates - Ex nR IIC T6 Gc

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

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.