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 I STB45ML-Ex

Materials
Lens-PC, Housing-PC, Mounting housing-Al, Cover-PC/Al
Ambient operating temperature -20°C ≤ Tamb ≤ +40°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

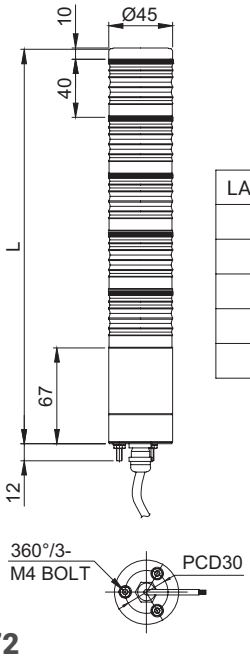
ST45ML-Ex Non-Sparking Explosion Proof LED Tower Light

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

Technical Diagram

Units: mm

· ST45ML-Ex



LAYER	L
1	117
2	157
3	197
4	237
5	277

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		0.26kg	R-Red
		DC24V		0.26kg	
	2	DC12V		0.30kg	R-Red G-Green
		DC24V		0.30kg	
	3	DC12V		0.34kg	R-Red A-Amber G-Green
		DC24V		0.34kg	
	4	DC12V		0.38kg	R-Red A-Amber G-Green B-Blue
		DC24V		0.38kg	
	5	DC12V		0.42kg	R-Red A-Amber G-Green B-Blue W-White
		DC24V		0.42kg	

· 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)	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		

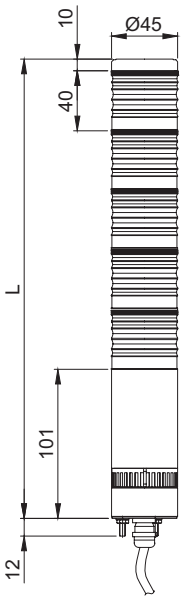
· CCC Certificates - Ex nR IIC T6 Gc

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



LAYER	L
1	151
2	191
3	231
4	271
5	311

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.

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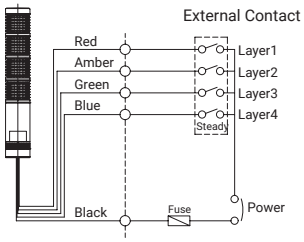
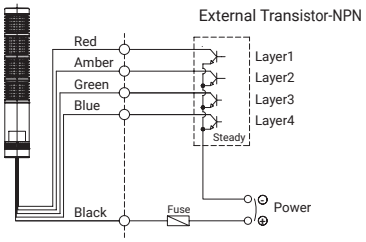
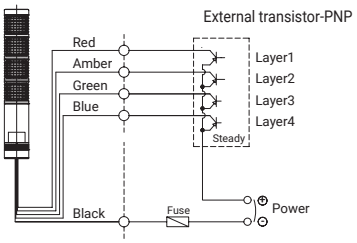
Wiring Instructions

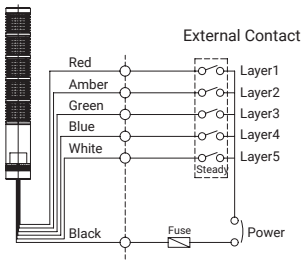
· ST45ML-Ex-4

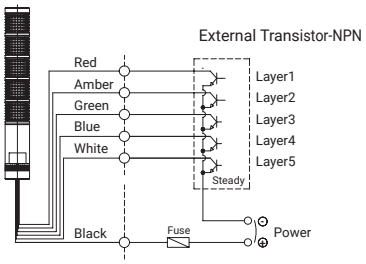


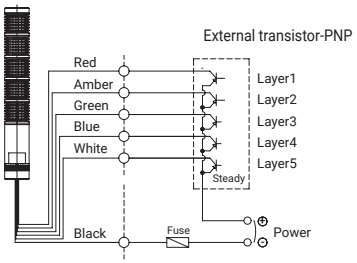




· ST45ML-Ex-5

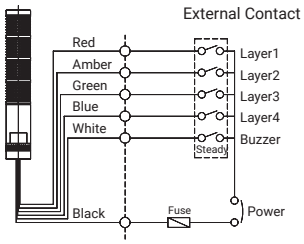


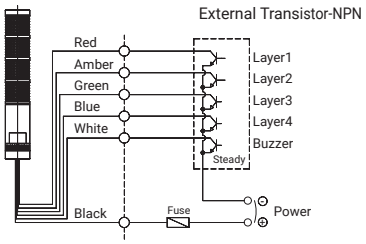


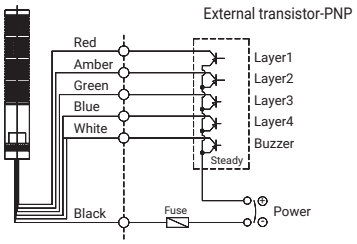


· External power line/External signal line - UL580L AWM2464 22AWG

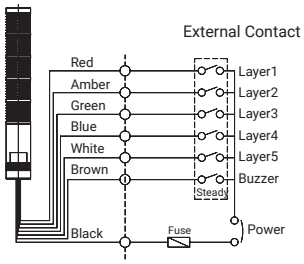
· STB45ML-Ex-4

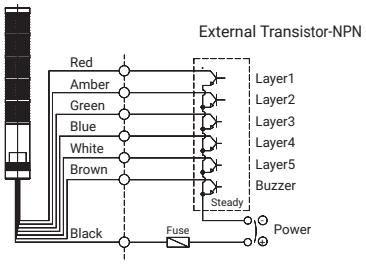


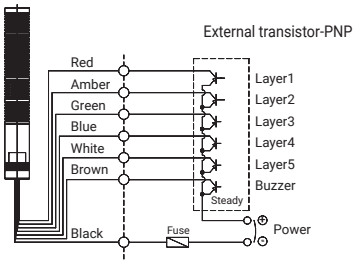




· STB45ML-Ex-5







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