


EDLM SERIES & EDWM SERIES EXPLOSION-PROOF



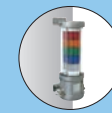
EDLM EDWM

Descriptions


The EDLM (colored 3 tiered LED) and EDWM (colored 5 tiered LED) are innovative LED maintenance free Signal Towers. The robust design with pressure and flame-proof housing is ideal for use in potentially flammable and hazardous explosive atmospheres such as chemical, petrochemical, combustible dust, production of mineral/natural gas, and even in the manufacturing of polysilicon for the photovoltaic, semi-conductor industries, as well as the food and beverage industries.

Features

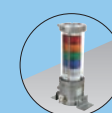
- Housing: Aluminum alloy
- Glass: Borosilicate glass
- Terminals: Easy wire connection to the Signal Tower by opening the bottom
- Mounting: Upright, Wall Mount, Vertical-mount, and Horizontal Mount
- LED color: Different color configurations are possible to custom-design
- Voltage: 24VAC/DC, 120VAC, 230VAC, 90-250VAC are available.
- Wire core size: 0.5mm²~0.8mm², AWG20~AWG18



Wall Mount



Horizontal Mount



Vertical Mount

EDLM & EDWM meet the specifications shown in the shaded areas below

CENELEC Standards for Europe

• ATEX directive is CENELEC standard.

Classification	Standard	PATLITE Models	Present Continuously	Present Intermittently	Present Abnormally
ATEX, IEC/EU Directive 94/9/EC	IEC 60079-10 EN 60079-10	EDLM, EDWM	Zone 0	Zone 1	Zone 2

NEC Standards for the USA

• NEC standard is National Electrical Code.

Classification	Standard	PATLITE Models	Present Continuously	Present Intermittently	Present Abnormally
NEC Article 505	ANSI/NFPA 71	EDLM, EDWM	Zone 0	Zone 1	Zone 2
NEC Article 500	ANSI/NFPA 70	—	Division 1		Division 2

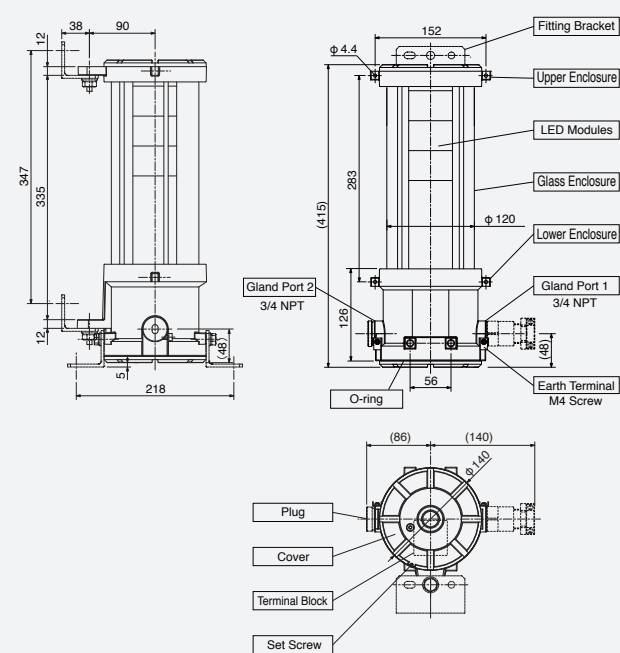
CENELEC (ATEX Directive)

Model	EDLM-302FE	EDLM-312FE	EDLM-323FE	EDWM-502FE	EDWM-5M2FE
Voltage Rating	AC/DC 24V	AC 120V	AC 230V	AC/DC 24V	AC 90~250V
Signal line Current (Per LED Module)	Red/Amber: 52.5mA Green: 20.0mA			Red: 22.6mA, Amber: 26.6mA, Green: 17.5mA Blue/White: 38.9mA	
Explosion Protection Ratings	Ⓜ II2G Ex d IIC T6 (Zone1,2) Ⓜ II2D Ex tD A21 IP66 T80°C (Zone21,22)				
Operating Temperature	-20°C~+50°C (no ice)				
Operating Humidity	45%~85%RH (Keep from dew condensation)				
Ambient Pressure	80~110kpa				
Lighting Pattern	Flashing (60±12 flashes per minute) / Continuous Light				
Protection Rating	IP66				
Vibration Resistance	9.8m/s ²				
Mounting	Outdoor & Indoor Upright		Outdoor & Indoor Upright & Sideways		
Luminosity	Red: 350mcd, Amber: 580mcd Green: 1300mcd		Red/Green/White: 1000mcd Amber: 700mcd, Blue: 300mcd		
Mass (Main Body)	4.3kg		4.7kg		
Material	Upper & Lower Case : Aluminum Alloy (Housing Finish: Melamine-baked Finish) Glass Case : Borosilicate Glass Fitting Bracket : Stainless Steel (SUS 316) Cable Gland : Brass				

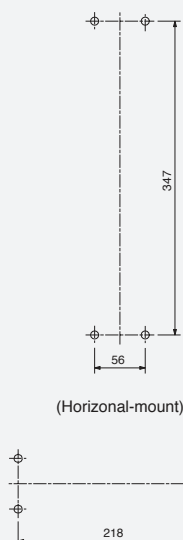
NEC Article 505

Model	EDLM-302FA	EDLM-312FA	EDLM-323FA	EDWM-502FA	EDWM-5M2FA
Voltage Rating	AC/DC 24V	AC 120V	AC 230V	AC/DC 24V	AC 90~250V
Signal line Current (Per LED Module)	Red/Amber: 52.5mA Green: 20.0mA			Red: 22.6mA, Amber: 26.6mA, Green: 17.5mA Blue/White: 38.9mA	
Explosion Protection Ratings	Class I, Zone 1 AEx d IIC T6				
Operating Temperature	-25°C~+50°C (No Freezing)				
Operating Humidity	45%~85%RH (Keep from dew or condensation)				
Ambient Pressure	80~110kpa				
Lighting Pattern	Flashing (60±12 flashes per minute) / Continuous Lighting				
Protection Rating	IP66				
Vibration Resistance	9.8m/s ²				
Mounting	Outdoor & Indoor Upright		Outdoor & Indoor Upright & Sideways		
Luminosity	Red: 350mcd, Amber: 580mcd Green: 1300mcd		Red/Green/White: 1000mcd Amber: 700mcd, Blue: 300mcd		
Mass (Main Body)	4.3kg		4.7kg		
Material	Upper & Lower case : Aluminum Alloy (Housing Finish: Melamine-baked Finish) Glass case : Borosilicate Glass Fitting Bracket : Stainless, Steel (sus 316)				

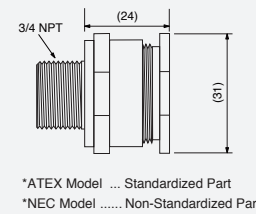
Dimensions (EDLM, EDWM)



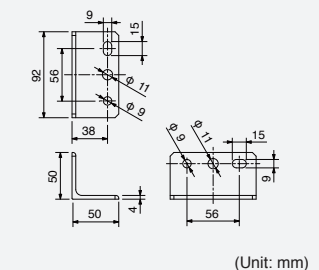
Installation (Wall-mount)



Cable Gland*

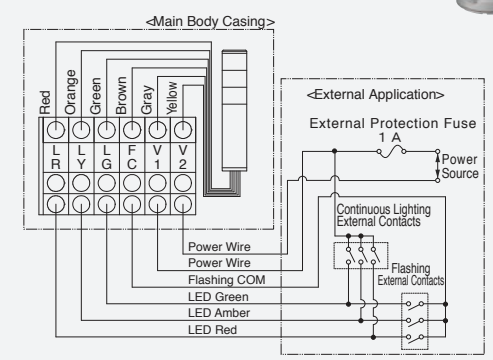


Flush-mount Bracket

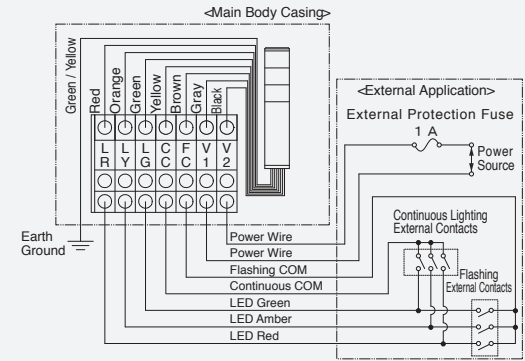


Wiring Diagram EDLM (3 color LED)

EDLM-302FE/FA

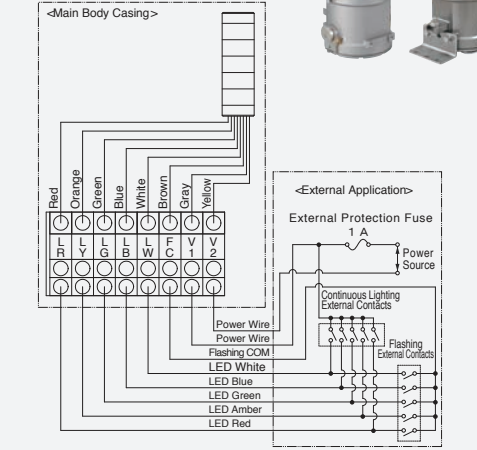


EDLM-312FE/FA EDLM-323FE/FA



Wiring Diagram EDWM (5 color LED)

EDWM-502FE/FA



EDWM-5M2FE/FA

