

# ETF Traffic Lights



**Bosston**

A QUALITY PRODUCT

## EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

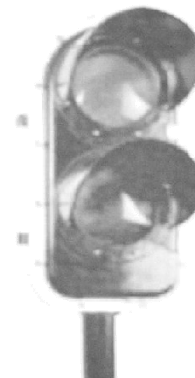
For IEC.60079-0 to 1 Standard Zone 1 and Zone 2



ISO9001:2008

### Technical data

- Type of Protection: Ex d IIA T6
- Conforming to : Standards IEC 60079-0 to 1 or UL 60079-1
- Marking for test : Ex II2G
- Degree of Protection : IP 66 acc.To IEC 60529
- Ambient Temp. (Ta) : -20°C to+ 55°C
- Rated Voltage : 220V.AC. 50Hz.
- Protection class for UL. : Class I,II Division1 or 2 Group.C,D,E,F and G
- Protection class for IEC : Zone1and Zone 2



**ETF**

### Applications:

- For use as automatic light or traffic signal in hazardous (classified) location due to the presence of flammable gases or vapors, dusts and flying fibers such as oil refineries or petrochemical plant.
- For indoor or outdoor in damp, wet or corrosive locations.

### Features:

- Good corrosion resistant body and impact resistant glass window.
- High illumination.
- Standard filter colours in red and green (other filter colours are option).
- Provided space housing for other control equipments.
- Incoming conduit hub 3/4 inch NPT size at bottom.
- Optional provided with pole stand.

### Catalogue Numbers :

Lamp Watts	Cat. No.
100	ETF 2100 RG
150	ETF 2150 RG

### Standard Materials:

- Body and Cover ring - Copper-free aluminium
- Glass - Heat and impact resistant
- Filter - Colour plastic
- Bolts - Stainless steel
- Pole stand (option) - Steel pipe

### Options :

Pole stand.

### Note :

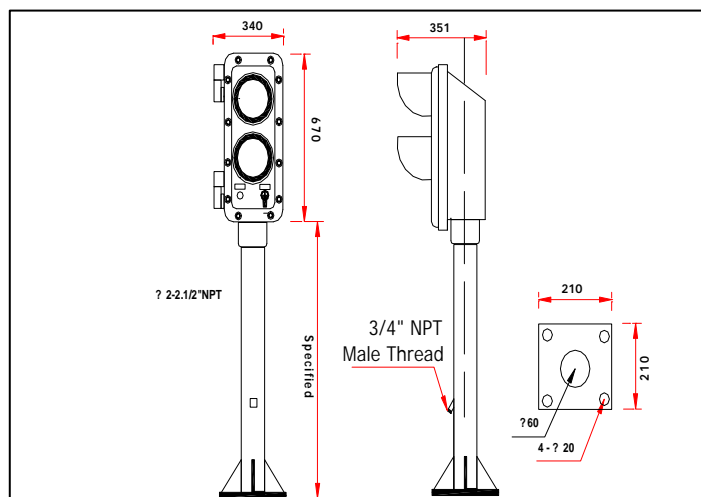
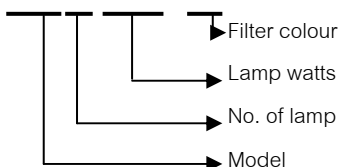
Adding suffix for lens colour to Cat..No.  
R - Red , G - Green , Y - Yellow , B - Blue , C - Clear

### Standard Finishes:

- Copper-free aluminium - Epoxy-polester powder
- Stainless steel - Natural

### Dimensions : ( in mm. )

## ETF 2100



# EHD Heat Detectors

## EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0 to 1 Standard Zone 1 and Zone 2

### Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-0 to 1 or UL 60079-1

Marking for test : Ex II2G

Degree of Protection : IP 65 acc.To IEC 60529

Temperature Rating : 135 °F ( 57 °C )

Rated Voltage : 6 , 12 , 24 V.DC./ 1A.

: 110 , 220V.AC. / 3A.

Type : EHD

Grill : Epoxy-polyester powder

Body and junction box : Copper-free aluminium

Protection class for UL. : Class I, Division1 or 2 Group.C,D

Class II, Division1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone1and Zone 2



ISO9001:2008



EHD

### Applications:

The EHD heat detector is used

for Fire Protective Signaling Systems.The detector shall be,

either a single-circuit type,normally open. The Detectors shall be rated for activation at either 135 °F (57 °C) or 194 °F (90 °C);

and shall activate by means of a fixed temperature /rate-of-rise thermal sensor. The rate-of-rise element shall be activated by a rapid rise in temperature,approximately 15 °F (8.3 °C) per minute.

### Features:

- Copper-free aluminium body, coated with epoxy-polyester powder for corrosion resistant.
- Body and junction box is threaded joint for easy wires connection.
- Grill type and surface mounted.
- Through-feed 3/4" inch NPT standard conduit hub.

### Standard Finishes:

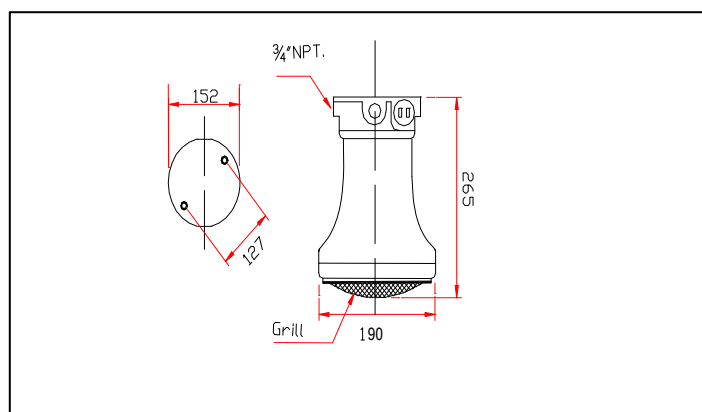
- Body and Junction box - Epoxy-polyester powder
- Grill - Epoxy-polyester powder

### Catalogue Number:

Supply Voltage	Tem, Rating	Tem, Rating	Circuit	Cat.No.
6 V.DC.	135 °F(57 °C)	194 °F(90 °C)	Single	EHD - 6
12V.DC.	135 °F(57 °C)	194 °F(90 °C)	Single	EHD - 12
24V.DC.	135 °F(57 °C)	194 °F(90 °C)	Single	EHD - 24
110V.AC.	135 °F(57 °C)	194 °F(90 °C)	Single	EHD - 110
220V.AC.	135 °F(57 °C)	194 °F(90 °C)	Single	EHD - 220

**Remark:** UL Protected Spacing - 10 Foot Ceiling  
50 feet x 50 feet (15.24m x 15.2m)

### Dimension : ( in mm. )




**Bosston**

A QUALITY PRODUCT

# EMERGENCY LIGHT

## BATTERY PACK FOR FLUORESCENT

**EXPLOSIONPROOF**
**For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G**
**For IEC.60079-0 to 1 Standard Zone 1 and Zone 2**

### Technical data

Type of Protection: Ex de IIA T6

Conforming to : Standards IEC 60079 - 0 to 1 or UL 60079-1

Marking for test : Ex II2G

Degree of Protection : IP 66 acc.To IEC 60529

Storage Temp. (Ta) : -30 °C to+ 65 °C

Input voltage : 220 VAC.+/- 10%, 50Hz. 2X36W

Type : EMG

Lamp Use/Back up : 1 x 36w./ 2Hrs.,

Battery : 6V,4AH. Standard charge 14-16 Hour

Mode Operating : Maintained

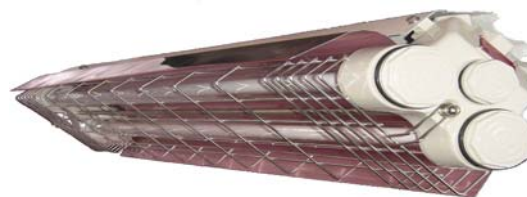
Charging Period : Constant Current 24 Hrs.

Construction : Iron Sheet



ISO9001:2008

## EMG TYPE



### Applications:

The EMG 136 emergency light are used in hazardous areas due to the presence of flammable gases or vapors, combustible dusts and flying fivers. indoor or outdoor use.

### Features:

- Neckel - cadmium Battery
- Nominal capacity 4000 mAh
- Standard charge 400mA.,Fast charge 40000(1 C) 1.5 approx per Hour and Tickle charge 0.05C-0.1C
- Discharge Cut - off 1.0 V/Cell
- Standard hub size 3/4 inch NPT.

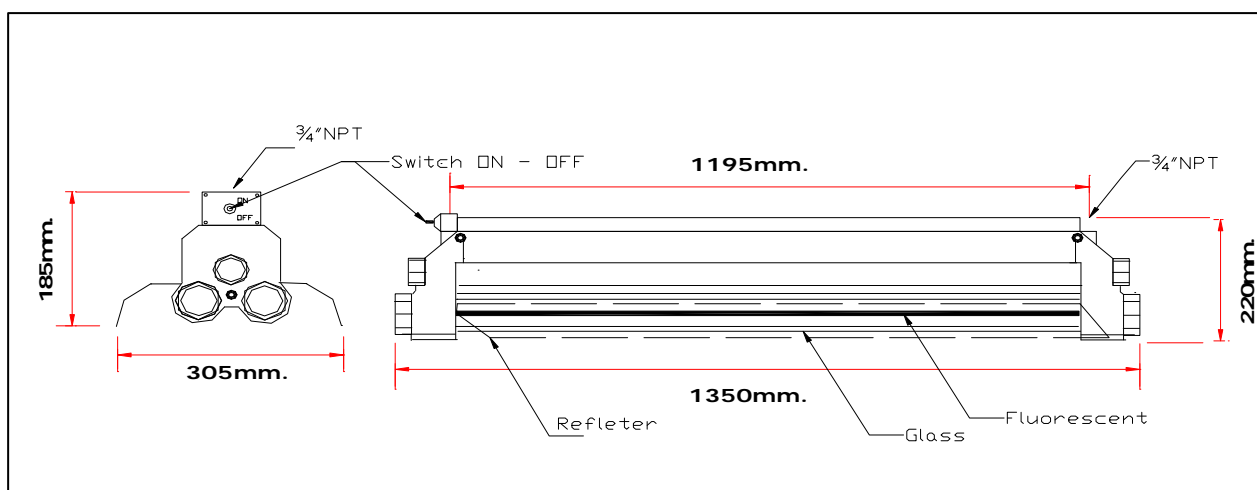
### Standard Materials:

- Body and fixtures - Copper-free aluminium
- Birrociliate glass, heat and impact resistant
- Reflector - Anodized aluminium

### Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Stainless steel - Natural
- Sheet - Epoxy - polyester powder coated.
- Guard - Stainless steel

Lamp Watts	Temp. Class (Surface Temp.)		Cat.,No.
	40 C 1a	55 C 1a	
Fluorescent			
2 x 36 W.	T6	T6	EMG236G

**Dimension : ( in mm. )**

**I**



**Bosston**

A QUALITY PRODUCT

# EMERGENCY LIGHT

## BATTERY PACK FOR FLUORESCENT

**EXPLOSIONPROOF**

**For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G**

**For IEC.60079-0 to 1 Standard Zone 1 and Zone 2**

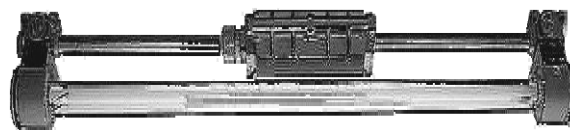
**Technical data**

- Type of Protection: Ex de IIA T6
- Conforming to : Standards IEC 60079 - 0 to 1 or UL 60079-1
- Marking for test : Ex II2G
- Degree of Protection : IP 66 acc.To IEC 60529
- Storage Temp. (Ta) : -30 °C to+ 65 °C
- Input voltage : 220 VAC.+/- 10%, 50Hz. 2X36W
- Type : EMG
- Lamp Use/Back up : 1 x 36w./ 2Hrs.,
- Battery : 6V,4AH. Standard charge 14-16 Hour
- Mode Operating : Maintained
- Charging Period : Constant Current 24 Hrs.
- Construction : Iron Sheet



ISO9001:2008

## EMG TYPE



**Applications:**

The EMG 136 emergency light are used in hazardous areas due to the presence of flammable gases or vapors, combustible dusts and flying fivers. indoor or outdoor use.

**Standard Finishes:**

- Copper-free aluminium - Epoxy-polyester powder
- Stainless steel - Natural
- Sheet - Epoxy - polyester powder coated.

**Features:**

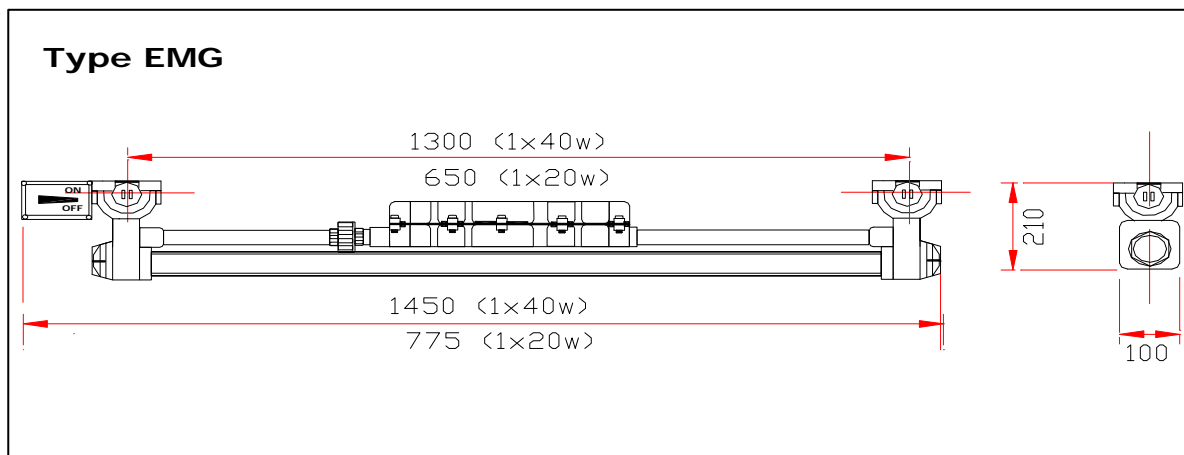
- Neckel - cadmium Battery
- Nominal capacity 4000 mAh
- Standard charge 400mA.,Fast charge 40000(1 C) 1.5 approx per Hour and Tickle charge 0.05C-0.1C
- Discharge Cut - off 1.0 V/Cell
- Standard hub size 3/4 inch NPT.

Lamp Watts	Temp. Class (Surface Temp.)		Cat.,No.
	40 C 1a	55 C 1a	
Fluorescent			
1 x 36 W.	T6	T6	EMG136
1 x 18 W.	T6	T6	EMG118

**Standard Materials:**

- Body and fixtures - Copper-free aluminium
- Birrolicate glass, heat and impact resistant
- Reflector - Anodized aluminium

**Dimension : ( in mm. )**




**Bosston**

A QUALITY PRODUCT

# TELEPHONE

## EXPLOSIONPROOF

**For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G**
**For IEC.60079-0 to 1 Standard Zone 1 and Zone 2**

### Technical data

Type of Protection: Ex de IIA T6

Conforming to : Standards IEC 60079 - 0 to 1 or UL 60079-1

Marking for test : Ex II2G

Degree of Protection : IP 65 acc.To IEC 60529

Storage Temp. (Ta) : 10 °C to+ 65 °C

Electrical Ratings : 220 VAC. 0.025A 85dB at 10ft.

Type : ETP 1



ISO9001:2008

## ETP TYPE



### Applications:

The ETP1 Telephone is used

- For communication in hazardous atmospheres such as oil and gas refineries, chemical plants, loading station, paint manufacturing plants grain processing areas or similar industries.
- For indoor and outdoor locations.

### Features:

- Copper-free aluminium body, coated with epoxy-polyester powder for corrosion resistant.
- Surface mounting on vertical flat surface.
- Excellent clarity and high output sound level.
- 1/2" or 3/4" inch NPT standard hub at bottom view.

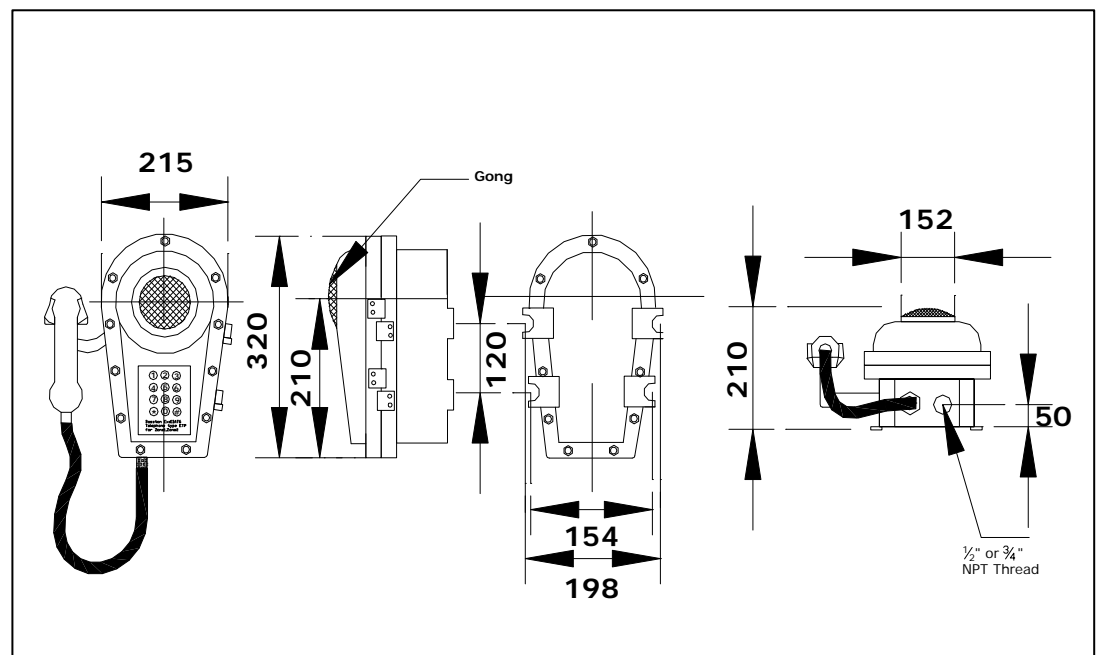
### Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Stainless steel - Natural
- Sheet - Epoxy - polyester powder coated. RAL 3018

### Standard Materials:

- Body and fixtures - Copper-free aluminium
- Bolts - Stainless steel
- O-ring gasket - Silicone

### Dimension : ( in mm. )



# ESK PHOTOELECTRIC SMOKE

## EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0 to 1 Standard Zone 1 and Zone 2

### Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-0 to 1 or UL 60079-1

Marking for test : Ex II2G

Degree of Protection : IP 55 acc.To IEC 60529

Ambient Temperature  $-10^{\circ}\text{C} + 55^{\circ}\text{C}$

Operation Current DC 24V under 30m

Body and junction box : Copper-free aluminium

Protection class for UL. : Class I, Division1 or 2 Group.C,D

Class II, Division1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone1and Zone 2



ISO9001:2008



ESK

### Features:

Copper-free aluminium body, coated with epoxy-polyester powder for corrosion resistant.

Body and junction box is threaded joint for easy wires connection.

Catalogue Number:

**ESK24C**

Grill type and surface mounted.

Through-feed 3/4" inch NPT standard conduit hub.

### Standard Finishes:

Body and Junction box - Epoxy-polyester powder

Grill - Epoxy-polyester powder

Dimension : ( in mm. )

