Bosston
A QUALITY PRODUCT

EBN Rotating Beacon
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 67 acc.To IEC 60529

Ambient Temp. (Ta)   : -20°C to+ 55°C

Rated Voltage   : 12 - 24V.DC, 110 - 220V.AC. 50/60Hz

Type   : EBN

Transparent cover : Borosilicate glass

Filter   :   Plastic in red colour

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

EBN

● Applications:

The EBN rotating beacon is specially designed to use

in hazardous areas where the audible signals cannot be heard.

In process area where need a visual signal for communication

such as to warn of unsafe conditions.

For outdoor and corrosive environments.

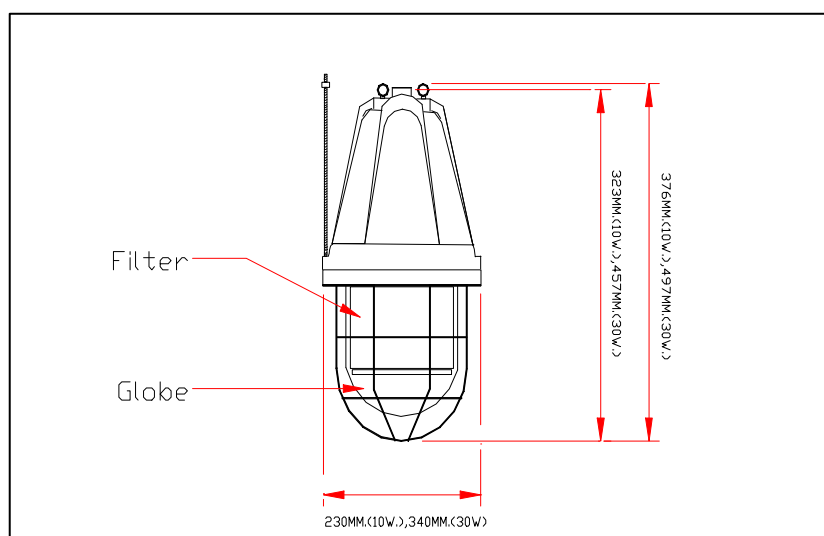## ● Standard Materials:

- Body   - Copper-free aluminium
- Globe   - Heat and impact resistant glass
- Guard and screws   - Stainless steel

● Standard Finishes:

- Copper-Free aluminium -   Expoxy-polyester powder
- Stainless steel   - Natural

● Features:

- Factory sealed, easy installation.
- copper-free aluminium body and coated with epoxy-polyester powder for high corrosion resistant.
- Heat and impact resistant glass globes.
- Provided a small motor drive to rotate the reflector 180 flashes per minute.
- Stainless steel guard for high corrosion resistant.
- 3/4" or 1/2" NPT standard conduit hub.

Lamp Watts	Cat.,No.
10	EBN 10 ✧
30	EBN 30 ✧

● Dimension : (in mm.)

Filter

Globe

323MM.(10W.),457MM.(30W.)

376MM.(10W.),497MM.(30W.)

230MM.(10W.),340MM.(30W.)

Note :

☐ Adding suffix for lens colour to Cat.,No.

R - Red,   O - Orange,   G - Green,   B - Blue

✧ 12V.DC.,24V.DC.,110V.AC.&220V.AC.

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EBNP,EBNB,EBNC Rotating Beacon

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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 65 / 66 acc.To IEC 60529

Ambient Temp. (Ta)   : -20°C to+ 55°C

Rated Voltage   : 12 - 24V.DC, 110 - 220V.AC. 50/60Hz

Type   : EBNP,EBNC,EBNB

Transparent cover : Borosilicate glass

Filter   :   Plastic in red colour

Protection class for UL. : Class I, Divition1 or 2 Group.C,D

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

                             Class III

Protection class for IEC : Zone1and Zone 2

Pendant type

Bracket Type

Ceiling Type

● Applications:

The EBN rotating beacon is specially designed to use

in hazardous areas where the audible signals cannot be heard.

in process area where need a visual signal for communication

such as to warn of unsafe conditions.

for outdoor and corrosive environments.

● Features:

Factory sealed, easy installation.

copper-free aluminium body and coated with epoxy-polyester

powder for high corrosion resistant.

Heat and impact resistant glass globes.

Provided a small motor drive to rotate the reflector 180 flashes

per minute.

Stainless steel guard for high corrosion resistant.

3 Type is pendant,ceiling, and bracket Type

3/4" NPT. For ceiling and bracket type or 1/2" NPT for pendant Type

● Standard Materials:
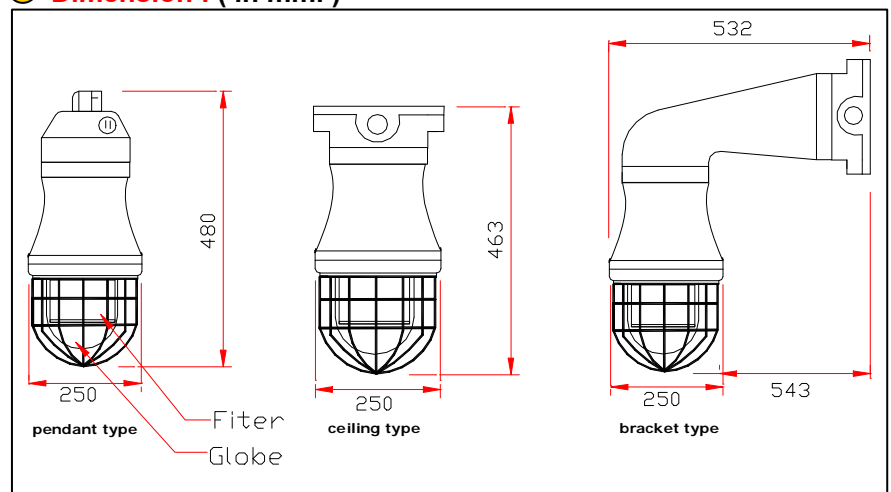
Body   -   Copper-free aluminium

Globe   -   Heat and impact resistant glass

Guard and screws   -   Stainless steel

● Standard Finishes:

Copper-Free aluminium   -   Expoxy-polyester powder

Stainless steel   -   Natural

Lamp Watts	Cat.,No.		
	Pendant	Bracket	Ceiling
10 ✧	EBNP10☐	EBNB10☐	EBNC10☐
30 ✧	EBNP30☐	EBNB30☐	EBNC30☐

Note :

☐ Adding suffix for lens colour to Cat.,No.

   R - Red,   O - Orange,   G - Green,   B - Blue

✧ 12V.DC.,24V.DC., 110V.AC.,220V.AC.

● Dimension : (in mm.)

480

250

pendant type

Fiter

Globe

463

250

ceiling type

532

250   543

bracket type

EBZ Buzzer,ESR Siren

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

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UKAS
MANAGEMENT
SYSTEMS
005

SGS

NAC
QMS 001

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 65 / 66 acc.To IEC 60529

Ambient Temp. (Ta) : -20°C to+ 55°C

Rated Voltage : 6 , 12 , 24 V.DC. For Buzzer

: 110 , 220V.AC. For Siren

Type : EBZ , ESR

Grill : Epoxy-polyester powder

Body and junction box : Copper-free aluminium

Protection class for UL. : Class I, Divition1 or 2 Group.C,D

Class II, Divition1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone1and Zone 2

EBZ and ESR

Applications:

The EBN rotating beacon ,ESR siren is used

for call signals, alarms and other signalling application.

in hazardous atmospheres such as oil and gas refineries,

chemical plants, loading station, paint manufacturing plants,

grain processing areas or similar industries.

for flat surface mounted with prjectors aimed in the

desired direction, for conduit system.

for indorr or outdoor locations.

Features:

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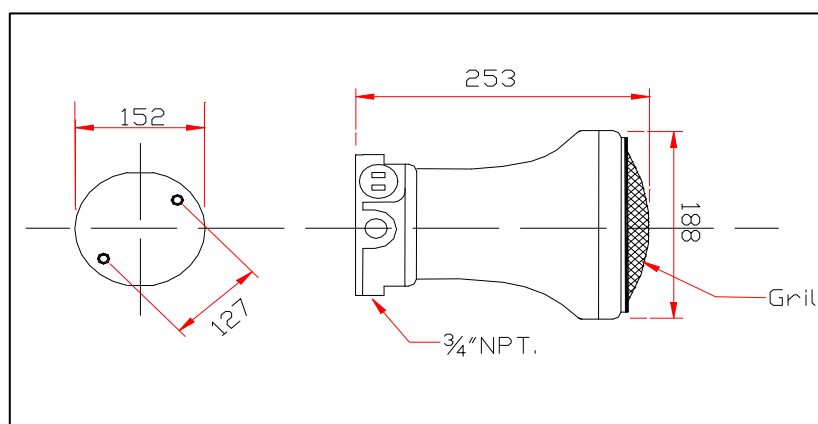- Through-feed 3/4" inch NPT standard conduit hub.

Standard Finishes:

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

Catalogue Number:

Supply Voltage	Sound Duration	VA.	Sound Level at 10 ft.(dB.)	Cat.No.
Buzzer				
6 V.DC.	Continuous	0.5	75	EBZ1- 006D
12V.DC.	Continuous	0.5	75	EBZ1- 012D
24V.DC.	Continuous	0.5	75	EBZ1- 024D
110V.AC.	10minutes maximum	8.5	90	EBZ1- 110A
220V.AC.	5minutes maximum	8.5	90	EBZ1- 220A
Siren				
24V.DC.	5minutes	-	85	ESR1-024D
220V.AC.	2minutes	-	90	ESR1-220A

Dimension : (in mm.)

152

127

253

188

¾"NPT.

Grill

I

EOL1 Low-intensity Obstacle Lights and EFH1 Flasher

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 / 67 acc.To IEC 60529

Ambient Temp. (Ta)   : -20 $^\circ$C to+ 55 $^\circ$C

Rated Voltage   : 12 - 24V.DC. 110 - 220 V.AC. 50Hz

Type   : EOL , EFH

Lens   :   Acrylic plastic

Globe   :   Heat and impact resistant glass

Body and junction box : Copper-free aluminium

Guard and screws   :   Stainless steel

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

● Applications:

The EOL1 low-intensity obstacle lights and EFH1 Flasher are suitable to use

in hazardous areas where the presence of flammable gases,

dusts and flyings or fibers.

for marking and lighting of tall structures, buildings or use on mobile

objects which intend to reduce hazards to aircraft.

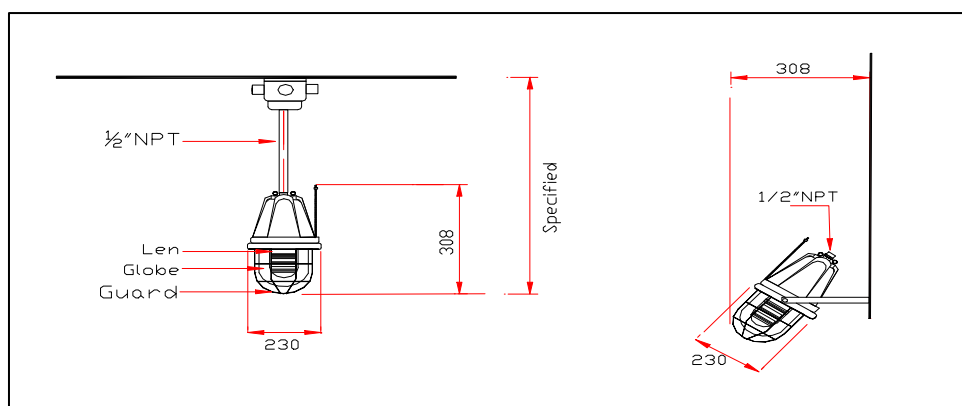for outdoor and corrosive environments.

● Features:

- Copper-free aluminium body and cated with epoxy-polyester for

high corrosion resistant.

- powder for high corrosion resistant.

- Heat and impact resistant glass globes.

- 100W. For only fixed light, 150W. And 1W. For halgen lamp.

(see Note and Options)

- Burning lamp life is more than 2,500hrs. For 100W. Incandescent

traffic signalling lamp, or more than 2,000hrs. For 150W. And 1,000hrs.

halogen lamp.

- Through-feed 3/4 inch NPT standard conduit hub for pendant and

bracket type.

- Factory sealed.

● Standard Finishes:

- Copper-Free aluminium -   Expoxy-polyester powder
- Stainless steel   -   Natural

● Catalogue Numbers:

Lamp Watts	Lamp Type	Light Intensity	Flashing Times/min	Cat.,No.	
100	Incan.	10 cd.	none	EOL1-100	☐
150	Halogen	40 cd.	70 - 75	EFH1-150	☐
1	Halogen	-	30 - 35	EFH1-001	☐

Note :

☐ Adding suffix for lens colour to Cat.,No.

R - Red,   O - Orange,   C - **Clear**,   B - Blue

✦ Adding suffix - H to Cat.,No. for integral flasher circuit

assembly into fixture body.

Dimension : (in mm.)

½"NPT

Len
Globe
Guard

308

230

Specified

308

1/2"NPT

230

EOL1 Low-intensity Obstacle Lights and EFH1 Flasher

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

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 / 66 acc.To IEC 60529

Ambient Temp. (Ta) : -20 $^{\circ}$C to+ 55 $^{\circ}$C

Rated Voltage : 12 - 24VDC. 110 - 220 V.AC. 50Hz

Type : EOLP , EOLC , EOLB

Lens : Acrylic plastic

Globe : Heat and impact resistant glass

Body and junction box : Copper-free aluminium

Guard and screws : Stainless steel

Protection class for UL. : Class I,II Division1 or 2 Group.C,D,E,F and G

Protection class for IEC : Zone1and Zone 2

Pendant type   Ceiling type

Ceiling type

Applications:

The EOL1 low-intensity obstacle lights and EFH1 Flasher are suitable to use

in hazardous areas where the presence of flammable gases,

dusts and flyings or fibers.

for marking and lighting of tall structures, buildings or use on mobile

objects which intend to reduce hazards to aircraft.

for outdoor and corrosive environments.

Features:

- Copper-free aluminium body and cated with epoxy-polyester for

  high corrosion resistant. Powder for high corrosion resistant.

- Heat and impact resistant glass globes. 100w.for only fixed light,

  150W. And 1W. For halgen lamp.(see Note and Options)

- Burning lamp life is more than 2,500hrs. For 100W. Incandescent

  traffic signalling lamp, or more than 2,000hrs. For 150W. And 1,000hrs.

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

  hub for pendant and bracket type. 3 Type pendant,celing,bracket Type

- 3/4" NPT. For ceiling and bracket type or 1/2" NPT for pendant Type
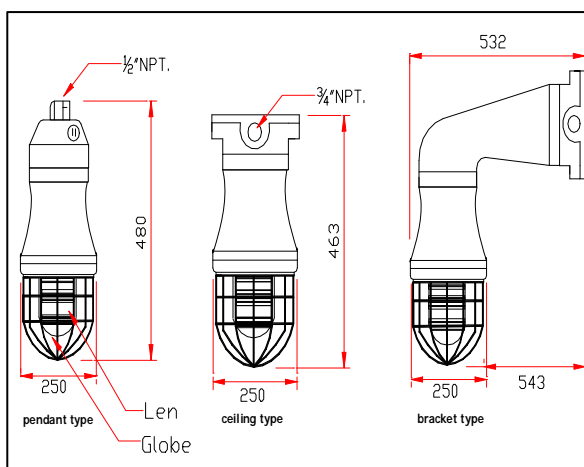
Standard Materials:

-	Body	- Copper-free aluminium
-	Globe	- Heat and impact resistant glass
-	Lens	- Acrylic plastic
-	Guard and screws	- Stainless steel

Standard Finishes:

- Copper-Free aluminium - Expoxy-polyester powder
- Stainless steel - Natural

Dimension : (in mm.)

½"NPT.

¾"NPT.

532

480

463

250   250   250   543

pendant type   ceiling type   bracket type

Len
Globe

Catalogue Numbers:

Lamp Watts	Lamp Type	Light Intensity	Flashing Times/min	Pendant Type	Ceiling Type	Bracket Type
100	Incan.	10 cd.	none	EOLP1-100 ☐	EOLC1-100 ☐	EOLB1-100 ☐
150	Halogen	40 cd.	70 - 75	EFHP1-150 ☐	EFHC1-150 ☐	EFHB1-150 ☐
1	Halogen	-	30 - 35	EFHP1-001 ☐	EFHC1-001 ☐	EFHB1-001 ☐

ISO9001:2008

Note :

☐ Adding suffix for lens colour to Cat.,No.   R - Red, O - Orange, C - Clear, B - Blue

✛ Adding suffix - H to Cat.,No. for integral flasher circuit   assembly into fixture body.

I

EAB Alarm Bells

Explosionproof

Bosston
A QUALITY PRODUCT

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 65 acc.To IEC 60529

Ambient Temp. (Ta) : -20°C to+ 55 $^\circ$C

Rated Voltage : 12 - 24V.DC., 110 - 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

EAB

🔴 Applications:

The EAB alarm bells are used

as alarm or signal devices for a variety of purposes.

in hazardous areas where flammable hases, dusts and flying

fibers are present.

for indoor, outdoor or corrosive locations.

🔴 Features:

- Suface mounting on vertical flat surface.
- Excellent clarity and high output sound level.
- powder for high corrosion resistant.
- Heat and impact resistant glass globes.
- 100W. For only fixed light, 150W. And 1W. For halgen lamp.
- Sound level exceed 85 dB. At 10 ft.
- Terminal block suitable for 0.5 - 4.0Squmm. Incoming cable.
- Copper-free aluminium housing for corrosion reistant.

🔴 Standard Size :

- Bell diameter 4 inches and 6 inches.
- Conduit hub 1/2 inch NPT size at bottom.

🔴 Catalogue Number :

Supply Voltage	Amp.	VA.	Bell Dia.	Sound Level at 10 ft.(dB.)	Cat. No.
24V.DC.	0.03	0.72	6 inches	85	EAB 24C
110 V.AC.	0.047	5.2	6 inches	85	EAB 110C
220V.AC.	0.024	5.2	6 inches	85	EAB 220C

🔴 Standard Materials:

- Body   -   Copper-free aluminium
- Gong   -   Steel

🔴 Standard Finishes:

- Copper-Free aluminium   -   Expoxy-polyester powder
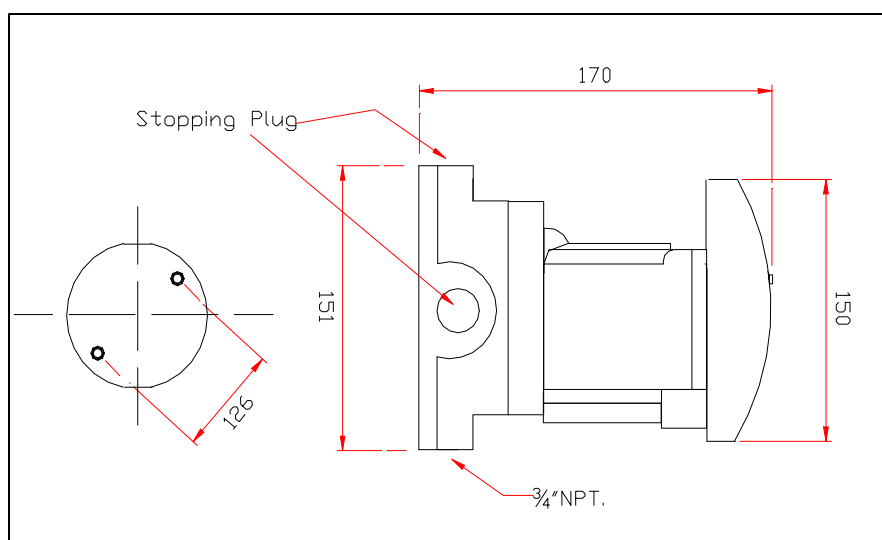- Steel   -   Expoxy-polyester powder

🔴 Dimension : (in mm.)

Stopping Plug

170

151

126

150

¾"NPT.

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Bosston
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EGI Grounding Indicator
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 66 acc.To IEC 60529
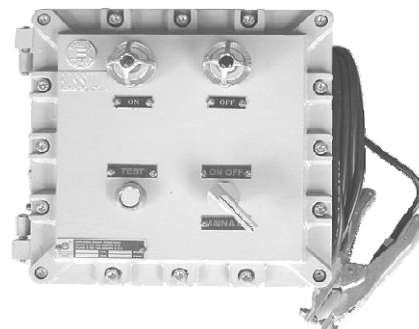
Ambient Temp. (Ta)   : -20°C to+ 55°C

Rated Voltage   : 220V.AC. 50Hz.

Protection class for UL. : Class I,II Divition1 or 2 Group.C,D,E,F and G

Protection class for IEC : Zone1and Zone 2

UKAS
MANAGEMENT
SYSTEMS
005

SGS

NAC
QMS 001

ISO9001:2008

🟡 Applications:

The EGI grounding indicator is specially designed

to use for loading and unloading facilities such as tank trucks, tank cars and drums

The EGI grounding indicator is connected to the product tank before and

during transfer of combustible materials to

dissipate the static electricity to ground.

indicate the actual grounding of product tank before and during loading

procedure.

interlock for motor control circuits of pump, the pump will not be operated

unless the grounding circuit is completely connected.

automatic shut down motor-pump, if the rounding circuit is disconnected

from the product tank.

EGI

🟡 Features:

- Good corrosion resistant body and impact resistant lamp for window.

- Two indicating lamps for present the rounding circuit connection

    - Red lamp is indicate "Ungrounded"

    Green lamp is indicate "Grounded"

- Intrinsically safe detecting circuit.

- Test push-button for system test.

- Power realy with three sets of normally open contacts

    for field wiring as interlock contact.

- Flexible cord is extra-hard usage, 2.5 squmm size 6 meters length.

- Incoming conduit hub 3/4 inch NPT size at bottom.

- Out going condit hub 3/4 inch NPT size at bottom.

- Easy for installation type ceiling

🟡 Standard Finishes:

- Copper-free aluminium   -   Epoxy-polyester powder

- Stainless steel   -   Natural

🟡 Standard Materials:

- Body and cover   -   Copper-free aluminium

- Bolts   -   Stainless steel

🟡 Dimensions :(in mm.)

310MM

158MM.

310MM

GROUNDED   UNGROUNDED

ON - OFF   TEST

135MM

330MM.

I