

HCN Incandescent and HCF Compact Fluorescent Lighting Fixtures

Certification Number:

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



TIS 1955-2542



Bosston

A QUALITY PRODUCT



ISO9001:2008

Technical data

Type of Protection: Ex d IIA T3 for Incan ,T6 for Compact FI

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

Marking for test : Ex II2G

Degree of Protection : IP67 acc.To.IEC 60529

Ambient Temp. (Ta) : -20 °C to+ 55 °C

Rated Voltage : 220 - 240 V.AC. 50/60Hz.

Type : HCN and HCF

Lamp : Incandescent 60/100w.,Compact fluorescent 11-20w

Lamp holder : E27 acc. IEC 60238

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 ECN incandescent, ECF compact fluorescent lighting fixtures are suitable to use for hazardous locations due to the presence of flammable gase or vapors, combustible dusts, refineries, petrochemical plants, and in other process areas. indoor or outdoor in wet and corrosive locations.

Features:

- Factory sealed,no external seals required, easy installation.
- Fixture body is made from copper free aluminium alloy for high corrosion resistant.
- Multi-finned out side for maximum heat dissipation.
- Heat and impact resistant glass globe.
- Stainless steel guard for high corrosion resistant.
- Ease of relamping.
- Terminal block suitable for 4 squmm. Cable and one earth terminal are provided.
- 1/2" Inch NPT for standard conduit hub.
- 3 Type of mounting : pendant,standion and bracket Type

Standard Materials:

- Body - Copper-Free aluminium
- Globe - Heat and impact resistant glass
- Guard - Stainless steel
- External reflector ✦ - Anodized aluminium

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester power coated.
- Stainless steel - Natural
- Anodized aluminium - Natural

✦ Options:

External reflector, add suffix - R to Cat.,No.

Lamp Watt	Temp.Class (Surface Temp.)		Catalogue Number		
	40 C Ta	55 C Ta	Pendant	Stanchion	Bracket
Incandescent					
60	T4A	T4A	HCN 60P	HCN 60S	HCN 60B
100	T3	T3	HCN 100P	HCN 100S	HCN 100B
Compact Fluorescent					
11	T6	T6	HCF 11P	HCF 11S	HCF 11B
15	T6	T6	HCF 15P	HCF 15S	HCF 15B
20	T6	T5	HCF 20P	HCF 20P	HCF 20B

HCN Incandescent and HCF Compact Fluorescent Lighting Fixtures

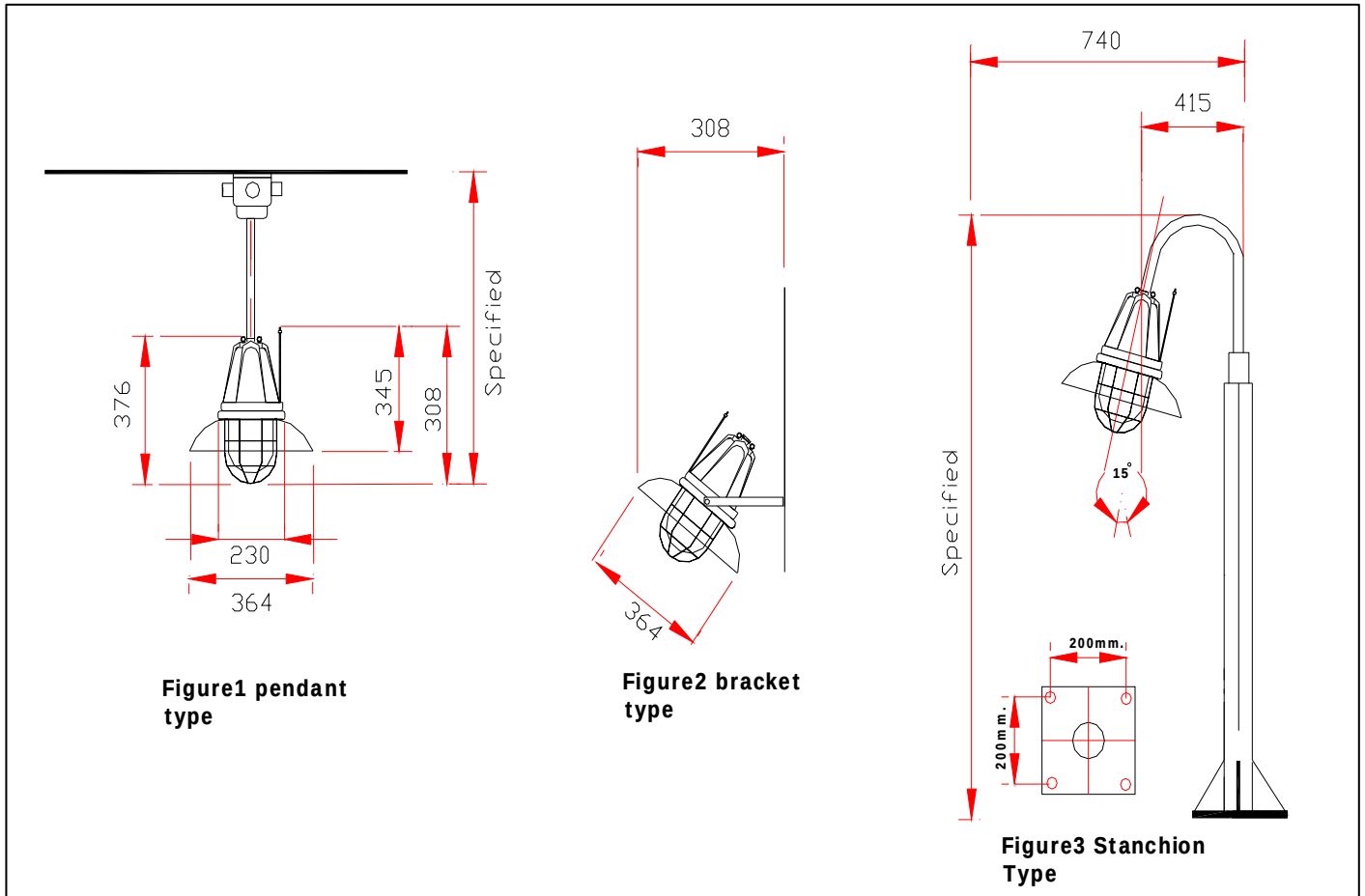


EXPLOSIONPROOF

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

Dimensions : (in mm.)



FCN Incandescent and FCF Compact Fluorescent Lighting Fixtures



EXPLOSIONPROOF

For UL.60079-15 Standard Class I,II Div. 2 Groups C,D,E,F and G

For IEC.60079-15 Standard Zone 2



ISO9001:2008

Technical data

Type of Protection : Exn R II, Temperature class depends on lamp power

Conforming to : Standards IEC 60079 - 15

Marking for test : Ex II3G

Degree of Protection : IP 66 acc. To IEC 60529

Ambient Temp. (Ta) : -20 °C to + 55 °C

Rated Voltage : 220 - 240 V.AC. 50/60Hz.

Type : FCN and FCF

Lamp : Incandescent 60/100w., Compact fluorescent 11-20w

Lamp holder : E27 acc. IEC 60238

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

Class II, Division 2 Groups.E,F,G

Class III

Protection class for IEC : Zone 2



Pendant Type



Stanchion Type

Applications:

The FCN incandescent, FCF compact fluorescent lighting fixtures are suitable to use for hazardous areas, indoors and outdoors where long life and low maintenance costs are desired heavy process industries having environments where flammable or explosive vapors or gases, or where combustible dusts are present

Features:

- Factory sealed, no external seals required, easy installation.
- Fixture body is made from copper free aluminium alloy for high corrosion resistant.
- Multi-finned out side for maximum heat dissipation.
- Heat and impact resistant glass globe.
- Stainless steel guard for high corrosion resistant.
- Easy for lamp replacement.
- 1/2" Inch NPT for standard conduit hub.
- 2 Type : pendant and stanchion Type.
- Terminal block suitable for 2.5 Sqmm. cable and one earth terminal are provided.

Standard Materials:

- Body - Copper-Free aluminum
- Globe - Heat and impact resistant glass
- Guard - Stainless steel
- Reflector - sheet Chromium plated or epoxy-polyester white-colour

Standard Finishes:

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

Lamp Watt	Temp. Class (Surface Temp.)		Catalogue Number	
	40 C Ta	55 C Ta	Pendant	Stanchion
Incandescent				
60	T4A	T4A	FCN 60P	FCN 60S
100	T4	T4	FCN 100P	FCN 100S
Compact Fluorescent				
11	T6	T6	FCF 11P	FCF 11S
15	T6	T6	FCF 15P	FCF 15S
20	T6	T5	FCF 20P	FCF 20P

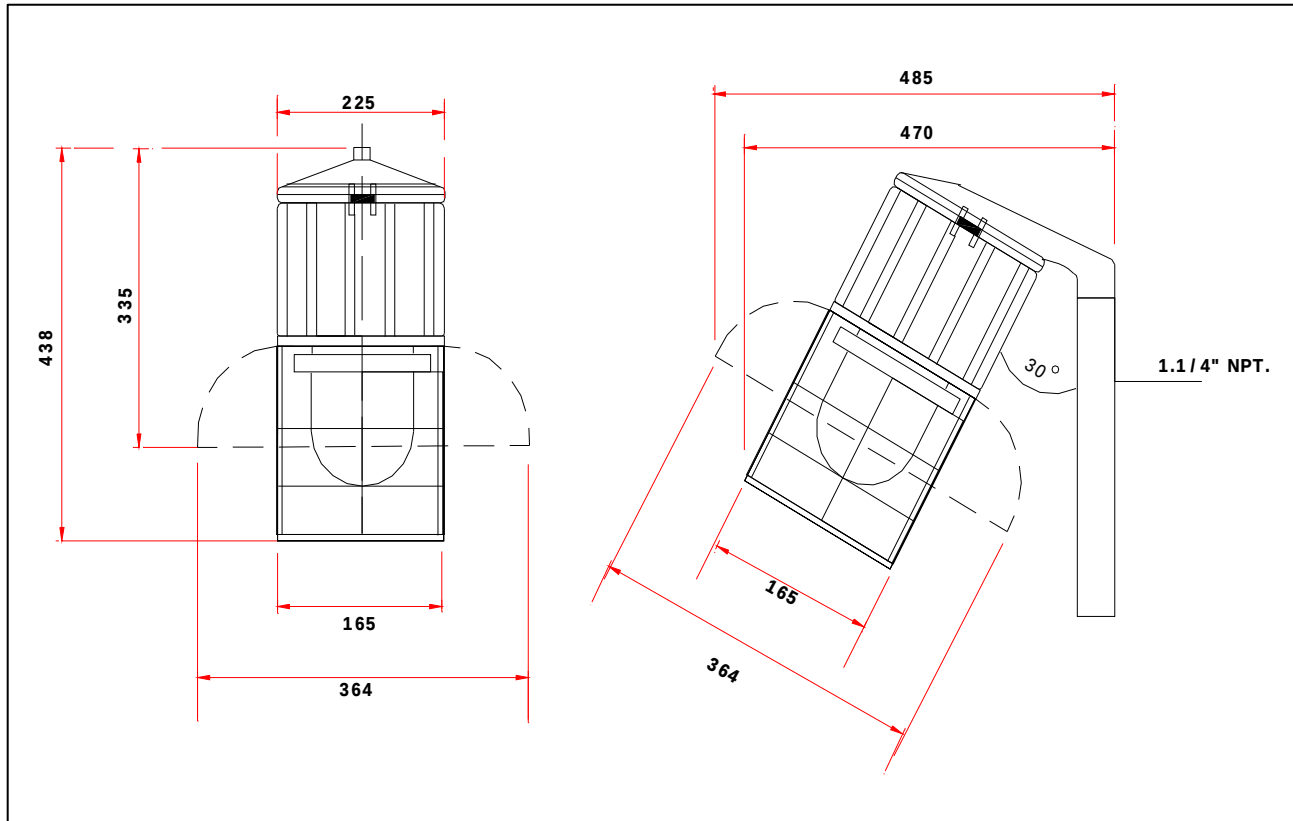
FCN Incandescent and FCF Compact Fluorescent Lighting Fixtures**EXPLOSIONPROOF**

For UL.60079-15 Standard Class I,II Div. 2 Groups C,D,E,F and G

For IEC.60079-15 Standard Zone 2



Dimensions : (in mm.)



FCNC Incandescent and FCFC Compact Fluorescent Lighting Fixtures

EXPLOSIONPROOF

For UL.60079-15 Standard Class I,II Div. 2 Groups C,D,E,F and G

For IEC.60079-15 Standard Zone 2



Technical data

Type of Protection : Exn R II, Temperature class depends on lamp power

Conforming to : Standards IEC 60079 - 15

Marking for test : Ex II3G

Degree of Protection : IP 65 acc. To IEC 60529

Ambient Temp. (Ta) : -20 °C to + 55 °C

Rated Voltage : 220 - 240 V.AC. 50/60Hz.

Type : FCNC and FCFC

Lamp : Incandescent 60/100w., Compact fluorescent 11-20w

Lamp holder : E27 acc. IEC 60238

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

Class II, Division 2 Groups E,F,G

Class III

Protection class for IEC : Zone 2

Applications:

The FCNC incandescent, FCFC compact fluorescent lighting fixtures are suitable to use for

hazardous areas, indoors and outdoors where long life and low maintenance costs are desired

building entrance where moisture, dirt or dust are a problem

Features:

- Factory sealed, no external seals required, easy installation.
- Glass globe is provided for more even light distribution and glare elimination.
- Guard assembly is easily removed by turning to loosen.
- Standard ceiling Type and hub size 3/4"NPT.
- Terminal block suitable for 2.5sqmm. cable and one earth terminal are provided.



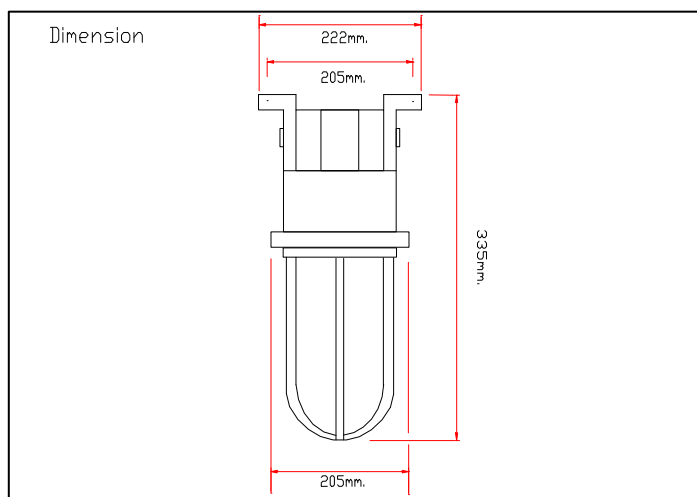
Ceiling Type

Standard Materials:

- Body , Guard - Copper-Free aluminum
- Globe - Heat and impact resistant glass
- Reflector - sheet Chromium plated or epoxy-polyester white colour

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester power coated.
- Sheet - Natural



Lamp Watt	Temp.Class (Surface Temp.)		Catalogue Number
	40 C Ta	55 C Ta	
Ceiling			
Incandescent			
60	T4A	T4A	FCNC 60
100	T4	T4	FCNC 100
Compact Fluorescent			
11	T6	T6	FCFC 11
15	T6	T6	FCFC 15
20	T6	T5	FCFC 20



FLUORESCENT LIGHTING FIXTURES

FWF SERIES



ISO9001:2008



Technical data

Type of Protection	: Ex de IIA T6/T5 (for Zone 1 & 2)
Conforming to	: ATEX standards IEC 60079-0/1
Marking	:  1955-2542 ExII2G Ex d IIA T6/T5
Degree of Protection	: IP 66 acc. To EN 60529 / IEC 60529
Ambient Temp. (Ta)	: -20° C to + 40 °C or + 55 °C (the lamps of 38 mm.dia.must be used if the ambieft temp. < 5 °C)
Rated Voltage	: 220 - 240 V.AC. 50/60Hz.

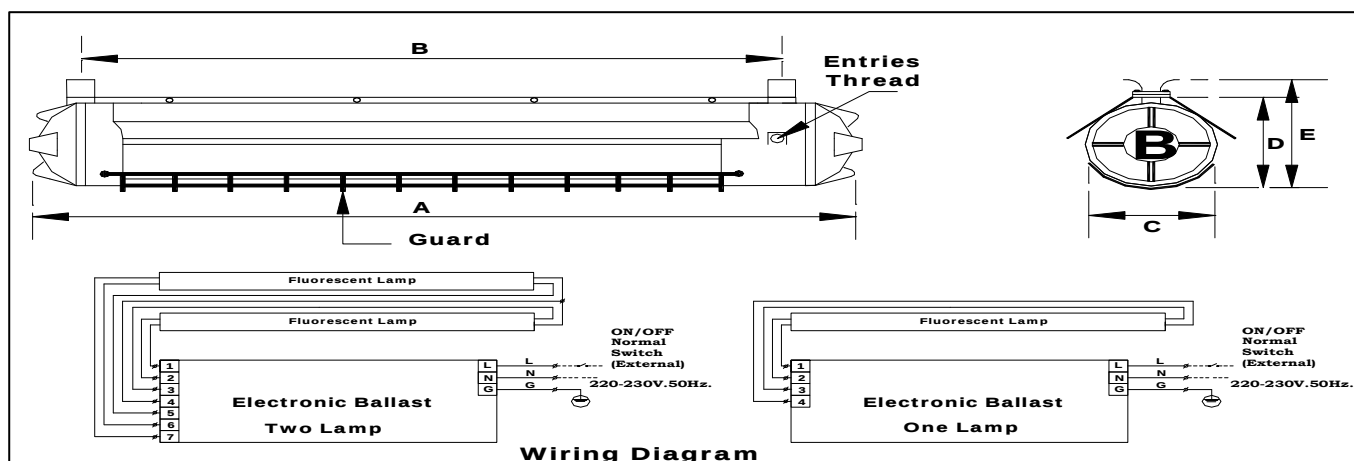
Option

Stainless steel wire guard - Suffix **G**

Specification

Housing material	: Copper-free aluminium with epoxy-polyester powder c	1 - lamp for emergency light - Suffix E
Tube	: Borosilicate glass	
Ballast	: Electronic ballast for bi-pin fluorescent lamp	
Connection	: Max. 3 x 4 Squmm.	
Cable entries	: 2 x M25 or 2 x 3/4" NPT. (1-plugged)	
Mounting	: Ceiling or horizontal wall mounting	
	(Optional mounting provided with 2 x M10 eye bolts, clamps for 2 inch pipe, or bracket)	

Dimension



Catalogue number

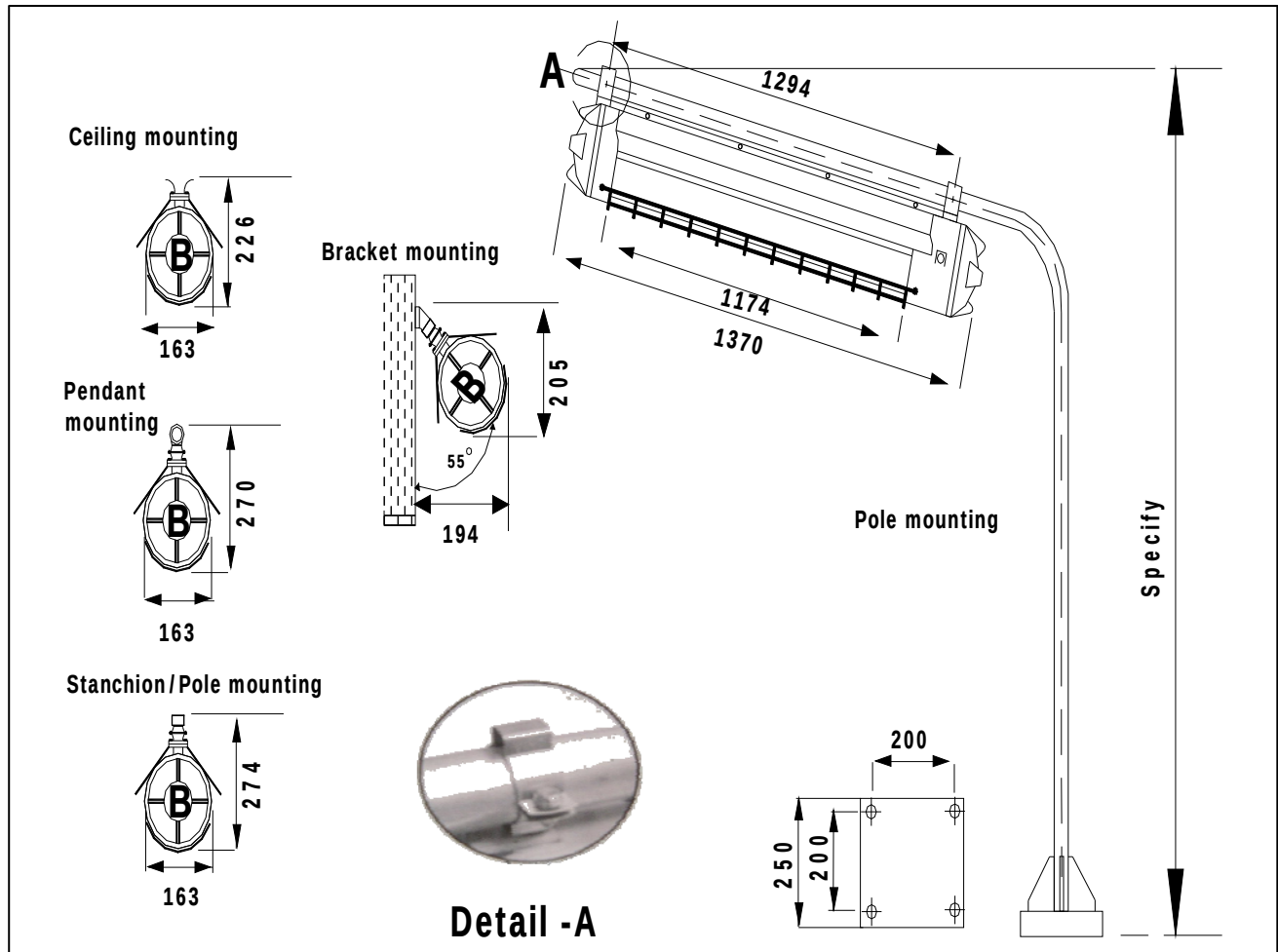
Lamp Watts.	Cat.,No.	Temp. Class		Dimension in mm.				
		Ta 40° C	Ta 50° C	A	B	C	D	E
1 x 18 w.	FWF-118	T6	I5	776	635	165	176	129
2 x 18 w.	FWF-218	T6	I5	776	635	165	176	129
1 x 36 w.	FWF-136	T6	T5	1371	635	165	176	129
2 x 36 w.	FWF-236	T6	I5	1371	635	165	176	129



FLUORESCENT LIGHTING FIXTURES

FGV SERIES

● Installation information





Portable Light EHLP Series



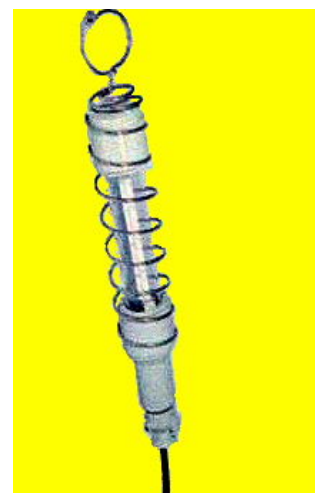
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Technical data

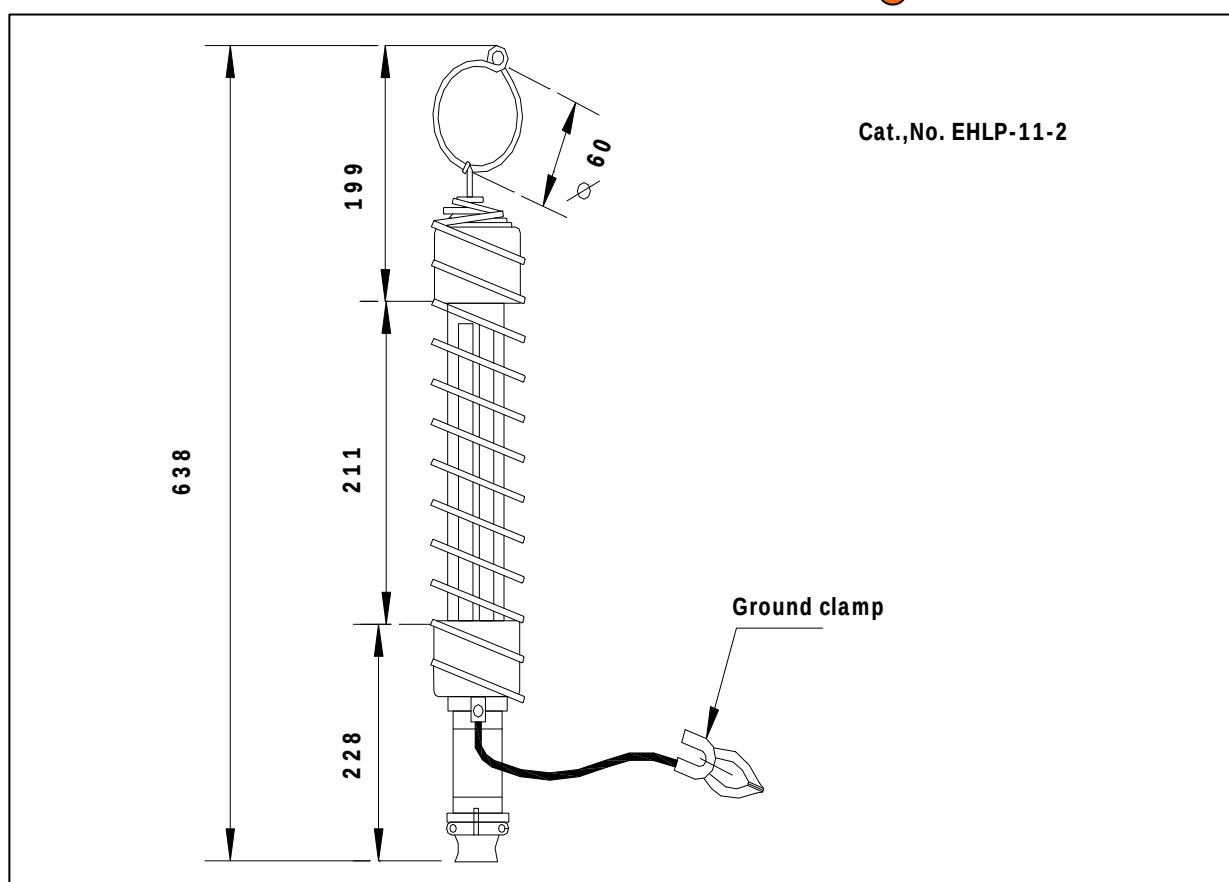
Type of Protection	: Ex d IIA T6/T5 (for Zone 1 & 2)
Conforming to	: Standards IEC 60079-0/1
Marking	: Ex II2G Ex d IIA T6
Degree of Protection	: IP 66 acc.to IEC 60529
Ambient Temp. (Ta)	: -20° C to + 40 °C or + 55 °C
Rated Voltage	: 220 - 240 V.AC. 50/60Hz.

Specification

Lamp	: Compact fluorescent
	: PLS 11W. Warm white (900 lm.)
Housing material	: Copper-free aluminium with epoxy-polyester powder coated.
Tube	: Borosilicate glass
Guard, screws	: Stainless steel
Ground clamp	: Bronze, completed with 5 m. length of cable
Connection	: Sealing ring provided for external connection of cable O.D. 9-14 mm., or 15-19 mm.
Sealing ring	: Neoprene (CR) -25 °C to + 100 °C



Dimension (mm.)





Lighting Fixture ECF Type



ISO9001:2008

Technical data

Type of Protection	: Ex d IIA T6/T5 (for Zone 1 & 2)
Conforming to	: Standards IEC 60079-0/1
Marking	: Ex II2G Ex d IIA T6
Classification	: Zone1 , Zone2 (Class I Division 1)
Degree of Protection	: IP 66 acc.to IEC 60529
Ambient Temp. (Ta)	: -20° C to + 55 °C
Rated Voltage	: 220 - 240 V.AC. 50/60Hz.



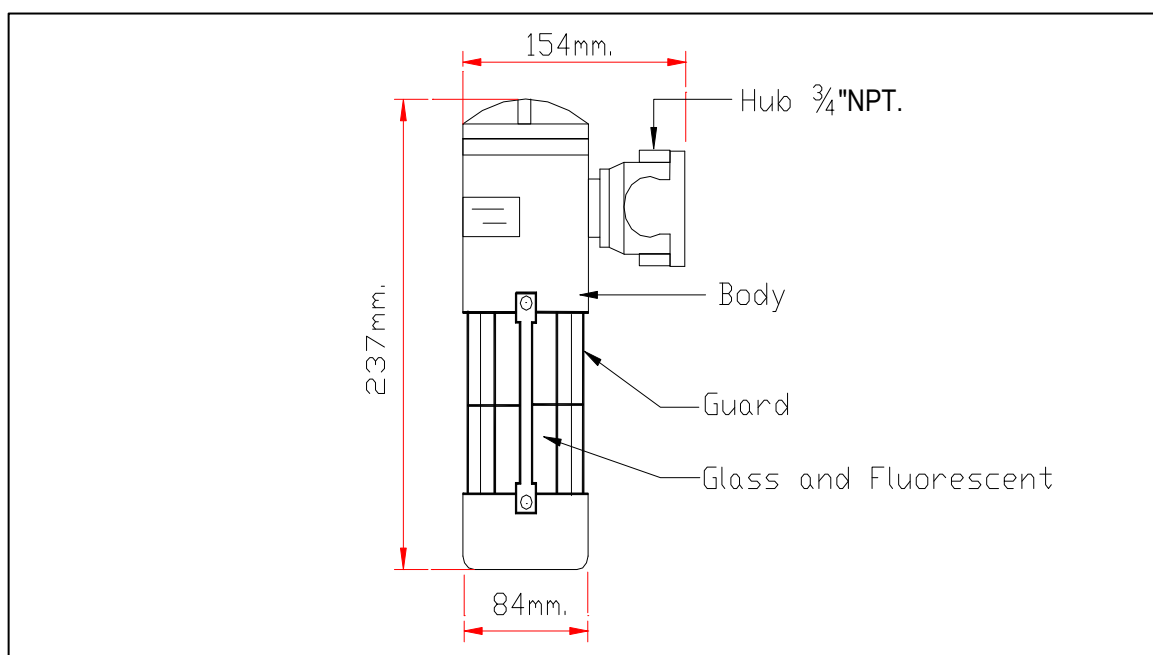
Type ECF

Specification

Lamp	: 1 x 8w, 11w or 15w./T6 -flourescent lamp
Housing material	: Copper-free aluminium with epoxy-polyester powder coated.
Glass Tube	: Borosilicate glass
Guard	: Stainless steel
Weight	: approx. 1.89 kg
Hub size	: 2 x 3/4" blanking plug 1 x 3/4"

Lamp Watt	Temp.	Catalogue Number
	Class	
11	T6	ECF 11 C
15	T6	ECF 15 C
20	T6	ECF 20 C

Dimensions (mm.)





EXIT 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.

Type : EXIT118

Lamp Use/Back up : 1 x 18w./ 2Hrs.,

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

Mode Operating : Maintained

Charging Period : Constant Current 24 Hrs.

Construction : Iron Sheet



ISO9001:2008

EXIT 118



Applications:

The EXT 118 exit light are used in hazardous areas to mark the direction of exits.
provide distinctly and highly visible exit marking.
indoor or outdoor use.

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Stainless steel - Natural
- Acrylic plastic - Natural

Features:

- Two side green,white EXIT lettering on white or green acrylic.
- Factory sealed, no external seals required.
- Body and Cover Copper-free aluminium
- Standard hub size 3/4 inch NPT.

Lamp Watts	Temp. Class (Surface Temp.)		Cat.,No.
	40 °C Ta	55 °C Ta	
Fluorescent			
1 x 18 W.	T6	T6	EXIT118
Compact			

Standard Materials:

- Body and fixtures - Copper-free aluminium
- Blrocilicate glass,heat and impact resistant.
- Sign face - White,green acrylic with red,white colour letters.
- Reflector - Anodized aluminium

Dimension : (in mm.)

