

Exd(e), Weatherproof



FL4

FB4

Introduction

These certified steady beacons have been designed for use in flammable atmospheres and harsh environmental conditions. The marine grade alloy or stainless steel enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance and strength is required.

Units can be painted to customer specification and fitted with identification labels.

Available with optional Exe terminal chamber.

Authorized Distributor:
GasDetectorsUSA.com
Houston, TX USA
832-615-3588
sales@GasDetectorsUSA.com

Features

- Zone 1 and Zone 2 use.
- Ex de IIC T3/T4/T5/T6.
- ATEX approved Ex II 2GD.
- BASEEFA certified.
- UL listed for USA and Canada
 - Hazardous locations:
 - Class I, Div. 1, Groups C & D.
 - Class I, Zone 1, AExd IIB T4/T5.
 - Ordinary locations: Visual-Signal Device.
- IECEx certified Gb, Db.
- GOST 'R' certified.
- Brazilian (Inmetro) certified.
- Certified temperature: -55°C to +70°C.
- IP66 and IP67.
- Fluorescent.
- Filament Lamps supplied.
- Corrosion Resistant.
- Exde version has gland earth continuity in the GRP terminal chamber.
- Optional lens guard.
- Tapered spigot flamepath.
- Retained cover screws.



Specification

Models: FL4 – up to 3 x 13 watt PL compact fluorescent lamps.
FB4 – up to 100 watt GLS filament lamps. E27 holder as standard.

Certification: Certified to IEC60079-0, IEC60079-1, IEC60079-2, IEC60079-3
Certified to EN60079-0, EN60079-1, EN60079-2, EN60079-3
ATEX Cert. No. Baseefa02ATEX0224X.
FB4
Ex II 2 GD Ex d IIC T3/T4/T5 Gb, Ex tb IIIC T85°C/T100°C/T185°C Db, Exde IIC T5 FL4
Ex II 2 GD Ex d IIC T4/T5/T6 Gb, Ex tb IIIC T85°C/T100°C/T135°C Db, Exde IIC T5 IECEx Cert. No. IECEx BES 10.0078X
FB4
Ex d IIC T3/T4/T5 Gb, Ex tb IIIC T85°C/T100°C/T185°C Db FL4
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UL listed for USA and Canada
– Hazardous locations:
Class I, Div 1, Groups C & D.
Class I, Zone 1, AExd IIB T4/T5.
Listing No. E187894.
Ordinary locations: Visual-Signal Device (FL4 only).
Listing No. S8128.
GOST 'R' Certified: 1Exd IIC T3/T4/T5.
Brazilian (Inmetro) Certified: BR-Ex d IIC T3/T4/T5/T6.
BR-Ex de IIC T3/T4/T5/T6.

Material: LM25TF Marine Grade Alloy body.
Grade 316 ANC4B Stainless Steel body.
Glass reinforced polyester (GRP) terminal chamber.
Toughened Wellglass.

Finish: Grey epoxy paint finish as standard or to customer's specification.

Voltage: 24V 48V 110V d.c., 110V 120V 220V 240V 254Va.c.
± 10% 50/60hz.

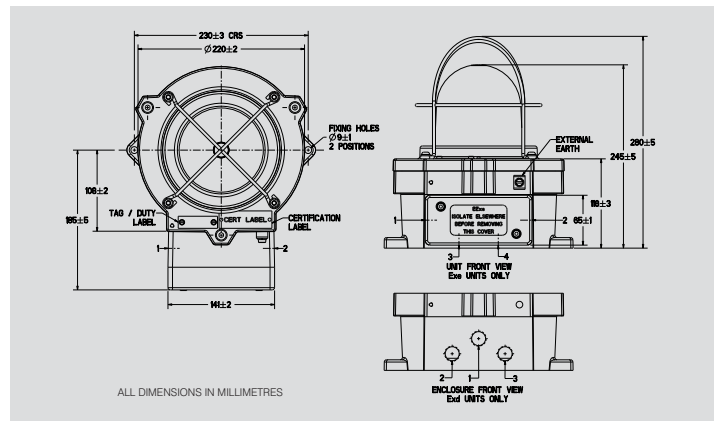
Lamps: FB4 units are supplied with lamps.

Certified Temp: FL4 – -20C to +70C*
FB4 – -50C to +55C (Exde)
FB4 – -55C to +55C (UL Listed)
FB4 – -55C to +70C* (Exd)
*Model dependent - see table for details

Weight: FL4 (Exd) 6.5 – 7.9 Kg.
FL4 (Exde) 7.5 – 8.9 Kg.
FB4 (Exd) 6.4 Kg.
FB4 (Exde) 7.4 Kg.
The above are for alloy versions. Add 8.4 Kg for stainless steel.

Ingress Protection: NEMA 4x & 6. IP66 and IP67.

Entries: Up to 3 x 1/2" NPT or 2 x 3/4" NPT in UL unit.
Up to 3 x M20 or 2 x M25 ISO in Exd unit.
Up to 4 x M20 or 4 x M25 ISO in Exe unit.



Terminals: Exe 6 off suitable for up to 6mm² cable or 10 off suitable for up to 2.5mm² cable.
Exd 8 off suitable for up to 6mm² cable.
UL 8 off suitable for up to 10 AWG.

FL4 Lamp Details

Unit Type	Lamp Type	Lamp Ref	Holder Type
FL4	DC Osram Dulux D/E 13W	DD/E 13/XX	G24q-1
	Philips PLC 13W	PLC 13 P4	G24q-1
FL4 AC	Osram Dulux D/E 13W	DD/E 13/XX	G24q-1
	Philips PLC 13W	PLC 13	G24d-1

Osram Colour XX = (21 = Cool white) (31 = Warm white) (41 = Interna)

Temperature Ratings

Unit Type	Wattage	T Class	Min. Amb	Max. Amb
FB4	100	T3	-55°C	55°C
		T4	-55°C	70°C
		T5	-55°C	30°C
FL4	39	T4	-20°C	70°C
		T5	-20°C	40°C
	13 & 26	T4	-20°C	70°C
		T5	-20°C	55°C
		T6	-20°C	40°C

Ordering Requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

Model	Voltage	Certification	Terminals	Entries	Lamp Wattage	Lens	Lens Guard	Options	Material	Finish																																																																								
FL4 FB4	<table border="1"> <tr><th>Voltage</th><th>Code</th></tr> <tr><td>24Vd.c.</td><td>B</td></tr> <tr><td>48Vd.c.</td><td>C</td></tr> <tr><td>110Vd.c.</td><td>D</td></tr> <tr><td>110Va.c.</td><td>E</td></tr> <tr><td>120Va.c.</td><td>F</td></tr> <tr><td>220Va.c.</td><td>G</td></tr> <tr><td>240Va.c.</td><td>H</td></tr> <tr><td>254Va.c.</td><td>J</td></tr> </table>	Voltage	Code	24Vd.c.	B	48Vd.c.	C	110Vd.c.	D	110Va.c.	E	120Va.c.	F	220Va.c.	G	240Va.c.	H	254Va.c.	J	<table border="1"> <tr><th>Type</th><th>Code</th></tr> <tr><td>6 x 6mm² (Exe)</td><td>6E*</td></tr> <tr><td>8 x 6mm² (Exd)</td><td>8D</td></tr> <tr><td>8 x 10 AWG (UL only)</td><td>8U</td></tr> </table> <p>* Not available GOST 'R' or IECEx certified.</p>	Type	Code	6 x 6mm ² (Exe)	6E*	8 x 6mm ² (Exd)	8D	8 x 10 AWG (UL only)	8U	<table border="1"> <tr><th>Wattage</th><th>Code</th></tr> <tr><td>FL4 13W (1 x 13W tube)</td><td>13</td></tr> <tr><td>26W (2 x 13W tubes)</td><td>26*</td></tr> <tr><td>39W (3 x 13W tubes)</td><td>39*</td></tr> <tr><td>FB4 60W</td><td>60</td></tr> <tr><td>100W</td><td>100</td></tr> </table> <p>* Not available d.c. or 254V a.c.</p>	Wattage	Code	FL4 13W (1 x 13W tube)	13	26W (2 x 13W tubes)	26*	39W (3 x 13W tubes)	39*	FB4 60W	60	100W	100	<table border="1"> <tr><th>Colour</th><th>Code</th></tr> <tr><td>Clear</td><td>C</td></tr> <tr><td>Red</td><td>R</td></tr> <tr><td>Blue</td><td>B</td></tr> <tr><td>Green</td><td>G</td></tr> <tr><td>Yellow</td><td>Y</td></tr> <tr><td>Amber</td><td>A</td></tr> </table>	Colour	Code	Clear	C	Red	R	Blue	B	Green	G	Yellow	Y	Amber	A	<table border="1"> <tr><th>Option</th><th>Code</th></tr> <tr><td>Duty</td><td>D*</td></tr> <tr><td>Tag</td><td>T*</td></tr> <tr><td>Relay Initiate (UL only)</td><td>R</td></tr> <tr><td>None</td><td>N</td></tr> </table> <p>* Please specify</p>	Option	Code	Duty	D*	Tag	T*	Relay Initiate (UL only)	R	None	N	<table border="1"> <tr><th>Finish</th><th>Code</th></tr> <tr><td>Grey</td><td>G</td></tr> <tr><td>Red</td><td>R</td></tr> <tr><td>Blue</td><td>B</td></tr> <tr><td>Yellow</td><td>Y</td></tr> <tr><td>White</td><td>W</td></tr> <tr><td>Special</td><td>S*</td></tr> </table> <p>* Please specify</p>	Finish	Code	Grey	G	Red	R	Blue	B	Yellow	Y	White	W	Special	S*
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* UL (FL4) – only available 24Vd.c., 110Va.c., 240Va.c., NPT entries.
† UL only available for FL4.