

# GRP Flameproof Visual Signal Xenon or Steady LED Series FX15



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17808E00

- > High intensity Xenon strobe or steady LED options
- > Suitable for offshore / onshore & harsh environments
- > Corrosion resistant light weight GRP enclosure
- > Stainless steel fixings and guard
- > High ingress protection IP66 & IP67
- > Extreme temperature range -60 ... +70 °C (variant dependent)
- > Flexible mounting options
- > Light enhancing lens design
- > Up to 3 x M20 entries



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Product Series FX15 is a robust, rugged, GRP visual signal, designed for use in hazardous areas. Corrosion resistance is a key feature of the device and the FX15 is ideally suited for use in harsh environments both on and offshore. The device can be used to alert, warn or draw attention to machine malfunction/start up or any number of fire & safety related applications. In addition to the xenon beacon, an LED steady version is available for use when process status indication is required. There are a choice of fixing brackets and mounting options giving the product maximum flexibility during installation.

Zone	ATEX IECEx					
	0	1	2	20	21	22
For use in		x	x		x	x

**WebCode FX15A**

# GRP Flameproof Visual Signal Xenon or Steady LED

## Series FX15



### Explosion Protection

#### Global (IECEX)

Gas and dust	IIB	IECEX BAS 13.0005X
	IIC	IECEX BAS 13.0003
	IIB, IIC	IEC 60079-0: 2011 / IEC 60079-1: 2007-04 / IEC 60079-31: 2008
	IIB	Ex d IIB T* Gb (Ta = -60 ... +** °C) Ex tb IIIC T***°C Db IP 66 (Ta = -60 ... +** °C)
	IIC	Ex d IIC T* Gb (Ta = -60 ... +** °C) Ex tb IIIC T***°C Db IP 66 (Ta = -60 ... +** °C)

\* temperature class on the table

#### Europe (ATEX)

Gas and dust	IIB	Baseefa13ATEX0007X
	IIC	Baseefa13ATEX0006
	IIB, IIC	EN 60079-0: 2012 / EN 60079-1: 2007 / EN 60079-31: 2009
	IIB	⊕ II 2 G Ex d IIB T* Gb (Ta = -60 ... +** °C) ⊕ II 2 D Ex tb IIIC T***°C Db IP 66 (Ta = -60 ... +** °C)
	IIC	⊕ II 2 G Ex d IIC T* Gb (Ta = -60 ... +** °C) ⊕ II 2 D Ex tb IIIC T***°C Db IP 66 (Ta = -60 ... +** °C)

\* temperature class on the table

#### Product variant table

5 Joule Xenon Strobe	Power and voltage	Temperature class	Max. surface temperature	Ambient temperature range
	5 J 24 V DC		T6	T73 °C
T5			T88 °C	-60 ... +55 °C
T4			T103 °C	-60 ... +70 °C
5 J 48 V DC		T6	T73 °C	-60 ... +40 °C
		T5	T88 °C	-60 ... +55 °C
		T4	T103 °C	-60 ... +70 °C
5 J 115 V AC		T5	T83 °C	-60 ... +40 °C
		T4	T113 °C	-60 ... +55 °C
5 J 230 V AC		T6	T75 °C	-60 ... +40 °C
		T5	T90 °C	-60 ... +55 °C
		T4	T105 °C	-60 ... +70 °C
Steady LED	Power and voltage	Temperature class	Max. surface temperature	Ambient temperature range
	see certificate	T6	T85 °C	-60 ... +70 °C
	see certificate	T6	T85 °C	-60 ... +70 °C

#### Certifications and certificates

Certificates	IECEX, ATEX, Brazil (INMETRO), India (PESO), Kazakhstan (TR), Russia (TR), Belarus (TR), Russia (Fire certificate)
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## Series FX15



### Technical Data

#### Electrical data

Version		5 Joule Xenon Beacon				Steady LED			
Rated operational voltage		24 V DC, 48 V DC, 115 V AC and 230 V AC operational parameters +/-10 %				24 V DC +/-10 %, 100 ... 254 V AC			
Rated operational current		<b>24 V DC</b>	<b>48 V DC</b>	<b>115 V AC</b>	<b>230 V AC</b>		Nominal		
		300 mA	185 mA	140 mA	75 mA		<b>24 V DC</b>	<b>110 V AC</b>	<b>230 V AC</b>
						green	150 mA	34 mA	16 mA
						red	109 mA	25 mA	12 mA
						amber	113 mA	26 mA	12 mA
						blue	133 mA	30 mA	15 mA
						white	139 mA	31 mA	15 mA
Power		not applicable					Nominal		
							<b>24 V DC</b>	<b>110 V AC</b>	<b>230 V AC</b>
						green	3.6 W	3.7 W	3.7 W
						red	2.6 W	2.7 W	2.8 W
						amber	2.7 W	2.8 W	2.8 W
						blue	3.2 W	3.3 W	3.3 W
						white	3.3 W	3.4 W	3.5 W

#### Luminous characteristics

Version		5 Joule Xenon Beacon		Steady LED	
Effective candela		Clear lens	49 cd	green	51 cd
				red	37 cd
				amber	33 cd
				blue	20 cd
				white	72 cd
Luminous flux		not applicable		green	45 lm
				red	44 lm
				amber	40 lm
				blue	24 lm
				white	72 lm
Flash energy		5 J		--	
Flash rate		1 per second		--	
Colour		green	colour pigmented polycarbonate lens	green	505 nm
		red		red	625 nm
		amber		amber	590 nm
		blue		blue	475 nm
		clear		white	Cx = 0.34, Cy = 0.33
		yellow		yellow	white LED under colour pigmented polycarbonate lens
		opal		opal	
		magenta	magenta		
Status LED lifetime		not applicable		100000 hours	

#### Operating temperature range

Version		5 Joule Xenon Beacon		Steady LED	
		24 & 48 V DC	-50 ... +70 °C	-60 ... +50 °C	
		115 V AC	-55 ... +55 °C		
		230 V AC	-55 ... +70 °C		

#### Mechanical data

Material		
Enclosure		GRP
Lens cover		polycarbonate
Wire guard		stainless steel
Degree of protection		IP66 & IP67 IEC 60529
Cable entries		3 x M20, product supplied with 3 x dust cover
Weight		2.4 kg

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# GRP Flameproof Visual Signal Xenon or Steady LED

## Series FX15



**Selection Table**

Version	Group	Rated operational voltage	Lens colour	Order number	Art. no.	Weight kg	
5 Joule Xenon ATEX & IECEx standard variants	IIC	24 V DC	red	FX15/C-D-050-R-EN-SF-A-ST-00-00-00	217971	2.230	
			amber	FX15/C-D-050-A-EN-SF-A-ST-00-00-00	217979	2.230	
			clear	FX15/C-D-050-C-EN-SF-A-ST-00-00-00	217989	2.230	
		115 V AC	red	FX15/C-L-050-R-EN-SF-A-ST-00-00-00	217973	2.250	
			amber	FX15/C-L-050-A-EN-SF-A-ST-00-00-00	217981	2.250	
			clear	FX15/C-L-050-C-EN-SF-A-ST-00-00-00	217983	2.250	
	230 V AC	red	FX15/C-N-050-R-EN-SF-A-ST-00-00-00	217974	2.250		
			amber	FX15/C-N-050-A-EN-SF-A-ST-00-00-00	217982	2.250	
			clear	FX15/C-N-050-C-EN-SF-A-ST-00-00-00	217995	2.250	
		IIC	24 V DC	amber	FX15/C-D-060-A-EN-SF-A-ST-00-00-00	247078	2.230
				blue	FX15/C-D-060-B-EN-SF-A-ST-00-00-00	247070	2.230
				clear	FX15/C-D-060-C-EN-SF-A-ST-00-00-00	247086	2.230
green	FX15/C-D-060-G-EN-SF-A-ST-00-00-00			247062	2.230		
red	FX15/C-D-060-R-EN-SF-A-ST-00-00-00			247094	2.230		
100 ... 254 V AC	amber			FX15/C-P-060-A-EN-SF-A-ST-00-00-00	247077	2.250	
	blue	FX15/C-P-060-B-EN-SF-A-ST-00-00-00	247069	2.250			
	clear	FX15/C-P-060-C-EN-SF-A-ST-00-00-00	247085	2.250			
	green	FX15/C-P-060-G-EN-SF-A-ST-00-00-00	247061	2.250			
	red	FX15/C-P-060-R-EN-SF-A-ST-00-00-00	247093	2.250			

**Type Code**


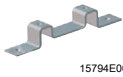





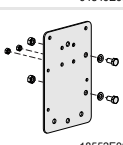
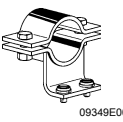

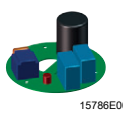


Variant	Option	Code	FX15	/	C	-	.	...	-	.	..	-	..	-	A	-	ST	-	..	-	..	-	..	
<b>Gas group</b>	IIC	C																						
	IIB	B																						
<b>Voltage</b>	24 V DC	D																						
	48 V DC (Xenon only)	F																						
	115 V AC (Xenon only)	L																						
	230 V AC (Xenon only)	N																						
	100 - 254 V AC (LED only)	P																						
<b>Flash energy</b>	5 Joule Xenon Strobe	050																						
	LED Status light	060																						
<b>Lens colour</b>	Red	R																						
	Amber	A																						
	Clear	C																						
	Blue	B																						
	Green	G																						
	Yellow	Y																						
	Magenta	M																						
	Opal	O																						
<b>Certification</b>	ATEX & IECEx	EN																						
	EAC (TR) + Russian fire certificate	RU																						
<b>Body colour</b>	Standard finish black	SF																						
	Red	RN																						
<b>Cable entries</b>	3 x M20	A																						
<b>Specification</b>	Standard	ST																						
<b>Identification labels</b>	without	00																						
	Duty label	DL																						
	Tag label	TL																						
	Duty & Tag label	DT																						
<b>Activation</b>	Standard	00																						
	Telephone initiate	TI																						
<b>Additional approvals</b>	without	00																						
	INMETRO <sup>1) 2)</sup>	IN																						
	PESO <sup>1)</sup>	PE																						

<sup>1)</sup> only available in conjunction with ATEX/IECEx approvals  
<sup>2)</sup> only available with Xenon strobe variant

# GRP Flameproof Visual Signal Xenon or Steady LED Series FX15



## Accessories and Spare Parts

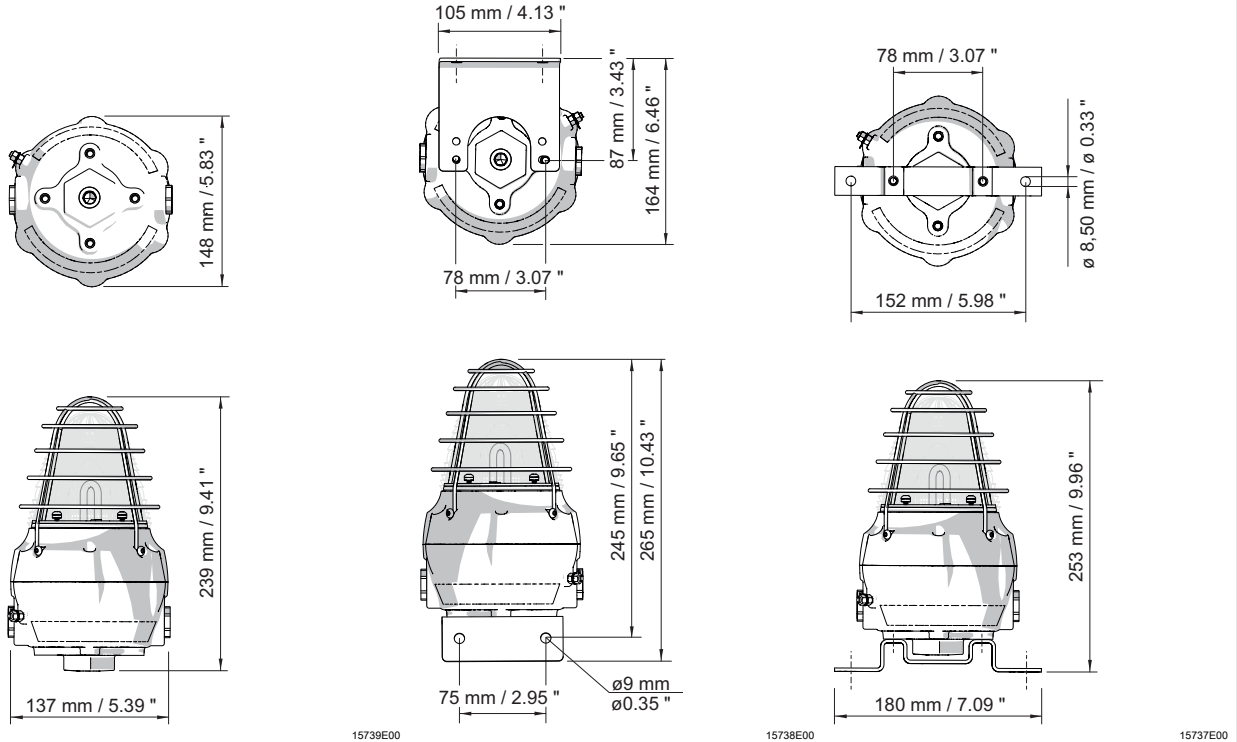
Designation	Figure	Description	Art. no.	WebCode
Mounting brackets	 15795E00	Stainless steel L-bracket - see dimensional drawings	<b>221711</b>	
	 15794E00	Stainless steel backstrap mounting bracket - see dimensional drawings	<b>221712</b>	
Cable glands	 15793E00	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass) RapidEx liquid pour sealing system	<b>109441</b> <b>246605</b>	PXSS2KA PXSS2KB
	 15791E00	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) RapidEx liquid pour sealing system	<b>109428</b> <b>246649</b>	PX2KA PX2KB
	 14977E00	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	<b>243464</b>	A2FA
	 14978E00	Ex d & Ex e cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) with unique compensating displacement seal system (CDS)	<b>246561</b>	T3CDSA
	 04840E00	made of stainless steel, Series 8294 8294/123-M20x1,5	1 piece	<b>143652</b>
Fastening set adapter plates	 18552E00	Adaptor plate for use in conjunction with pipe clamp	<b>256519</b>	
Pipe clamp	 09349E00	R 1 1/4 "	<b>120812</b>	
		R 1 1/2 "	<b>120819</b>	
		R 2 "	<b>120823</b>	
Xenon tube	 15798E00	Replacement xenon tube assembly	<b>223636</b>	
PCB	 15786E00	5 Joule Xenon beacon only		
		PCB assembly 24 V DC 5J	<b>223635</b>	
		PCB assembly 48 V DC 5J	<b>223634</b>	
		PCB assembly 110 V AC 5J	<b>223632</b>	
PCB termination	 15785E00	5 Joule Xenon beacon only		
		PCB assembly termination	<b>223579</b>	
Flange	 15796E00	Flange assembly standard		
		red	<b>243408</b>	
		amber	<b>243407</b>	
		clear	<b>223578</b>	
		blue	<b>243406</b>	
		green	<b>243405</b>	
		yellow	<b>243409</b>	
		magenta	<b>243404</b>	
opal	<b>243410</b>			

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# GRP Flameproof Visual Signal Xenon or Steady LED Series FX15



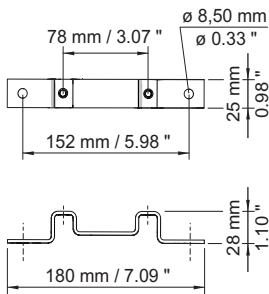
## Dimensional Drawings (All Dimensions in mm / inches) - Subject to Alterations



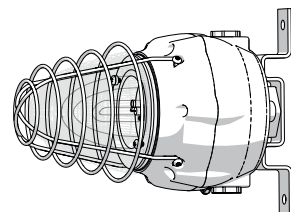
**FX15 Beacon**

**FX15 Beacon with 'L' bracket**

**FX15 Beacon with backstrap bracket**

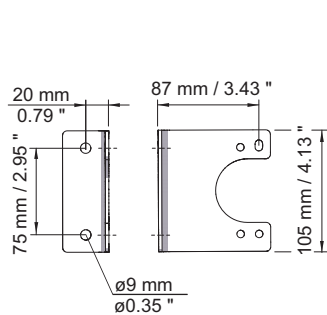


**Backstrap bracket**

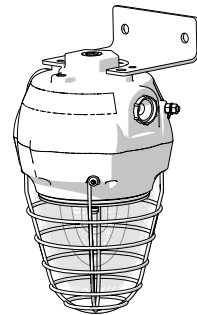


15743E00

15763E00



**L-shaped bracket**



15742E00

15762E00

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.