

# Explosion Proof Visual Signal - 5, 10 or 20 Joule Series FL60



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- > 5, 10 or 20 Joule xenon strobe
- > Lens available in seven different colours
- > IP66 rated as standard
- > Aluminium enclosure with stainless steel fasteners
- > Flash rate 1 per second
- > Lens guard and mounting bracket supplied as standard
- > Telephone initiate option available



13914E00

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Yodalex range  
Visual signal designed for use in hazardous or harsh environments.

ATEX						Class I (NEC 505) (NEC 506)						Class I Class II Class III								
Zone	0	1	2	20	21	22	Zone	0	1	2	20	21	22	Division	1	2	1	2	1	2
For use in		x	x		x	x	For use in		x	x		x	x	For use in	x	x	x	x	x	x

**Explosion Protection**

**Marking**

IECEX Gas explosion protection	IIB version:	Ex d IIB T4 (Ta -35°C to +60°C)
	IIB+H <sub>2</sub> version:	Ex d IIB+H <sub>2</sub> T4 (Ta -20°C to +60°C)
Dust explosion protection	IIB version:	Ex tD A21 IP66 T135°C (Ta -35°C to +60°C)
	IIB+H <sub>2</sub> version:	Ex tD A21 IP66 T135°C (Ta -35°C to +60°C)
Europe (ATEX) Europe (ATEX)	IIB version:	⊕ II 2 GD Ex d IIB T4 (T6 on request)
	IIB+H <sub>2</sub> version:	⊕ II 2 GD Ex d IIB+H <sub>2</sub> T4 (T6 on request)

**Certificates**

IECEX	IIB version:	IECEX BAS 05.0086 X
	IIB+H <sub>2</sub> version:	IECEX BAS 05.0087X
Europe (ATEX)	IIB version:	Baseefa 02ATEX0212X
	IIB+H <sub>2</sub> version:	Baseefa 02ATEX0222X
Other approvals	Canada (CUL), Russia (GOST-R), USA (UL), Brazil (INMETRO)	

**WebCode FL60B**

## Explosion Proof Visual Signal - 5, 10 or 20 Joule Series FL60



**Selection Table**

Version	Group	Flash energy	Rated operational voltage	Lens colour	Order number	Art. no.	Weight kg
FL60 Strobe, ATEX certification, standard devices	IIB + H <sub>2</sub>	5 Joule	24 V DC	amber	FL60/C/D50/A/EU	205129	5.080
				red	FL60/C/D50/R/EU	205133	5.080
			115 V AC	amber	FL60/C/L50/A/EU	212366	5.080
				red	FL60/C/L50/R/EU	205145	5.080
			230 V AC	amber	FL60/C/N50/A/EU	205150	5.080
				red	FL60/C/N50/R/EU	205153	5.080
FL60 Strobe, UL certification, standard devices	IIB + H <sub>2</sub>	5 Joule	24 V DC	amber	FL60/B/D50/A/UL	205156	5.080
				red	FL60/B/D50/R/UL	205160	5.080
			115 V AC	amber	FL60/B/L50/A/UL	205163	5.080
				red	FL60/B/L50/R/UL	205165	5.080
			230 V AC	amber	FL60/B/N50/A/UL	212367	5.080
				red	FL60/B/N50/R/UL	211406	5.000
FL60 Strobe, IECEX certification, standard devices	IIB + H <sub>2</sub>	5 Joule	24 V DC	amber	FL60/C/D50/A/IN	212368	5.080
				red	FL60/C/D50/R/IN	205139	5.080
			115 V AC	amber	FL60/C/L50/A/IN	212369	5.080
				red	FL60/C/L50/R/IN	212370	5.080
			230 V AC	amber	FL60/C/N50/A/IN	212371	5.080
				red	FL60/C/N50/R/IN	211551	5.080
FL60 Strobe, GOST R certification, standard devices	IIB + H <sub>2</sub>	5 Joule	24 V DC	amber	FL60/C/D50/A/RU	206976	5.080
				red	FL60/C/D50/R/RU	212381	5.080
			115 V AC	amber	FL60/C/L50/A/RU	212382	5.080
				red	FL60/C/L50/R/RU	212383	5.080
			230 V AC	amber	FL60/C/N50/A/RU	212384	5.080
				red	FL60/C/N50/R/RU	212385	5.080
Note	Variations in gas group, flash energy, voltage and lens colour are available, please use the table below to order						

# Explosion Proof Visual Signal - 5, 10 or 20 Joule

## Series FL60



### Selection Table

Version	Variations	Order Number
FL60 Strobe, devices acc. to specification	<b>Type code:</b> please fill in fields	FL60 / - / - / - / - / -
	<b>Gas group</b>	
	EU, IN and RU units IIB	<b>B</b>
	IIB + H2	<b>C</b>
	UL units C, D gas groups	<b>C</b>
	B gas groups	<b>B</b>
	<b>Rated operational voltage</b>	
	24 V DC	<b>D</b>
	48 V DC	<b>F</b>
	115 V AC	<b>L</b>
	230 V AC	<b>N</b>
	<b>Flash energy</b>	
	5 Joule	<b>50</b>
	10 Joule	<b>100</b>
	20 Joule	<b>200</b>
	<b>Lens colour</b>	
	amber	<b>A</b>
	red	<b>R</b>
	green	<b>G</b>
	opal	<b>O</b>
	blue	<b>B</b>
	clear	<b>C</b>
	yellow	<b>Y</b>
	<b>Certification</b>	
ATEX	<b>EU</b>	
UL	<b>UL</b>	
IECEX	<b>IN</b>	
GOST-R	<b>RU</b>	
<b>Additions</b>		
activation AC voltages only	telephone initiate <b>TI</b>	

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### Technical Data

#### Electrical data

Rated operational voltage	24 or 48 V DC, 115 or 230 V AC			
24 V DC	5 J	IECEX, ATEX, UL, GOST	220 mA	
	10 J	IECEX, ATEX, GOST	500 mA	
	20 J	IECEX, ATEX, GOST	1,1 A	
48 V DC	5 J	IECEX, ATEX, UL, GOST	135 mA	
	10 J	IECEX, ATEX, GOST	300 mA	
	20 J	IECEX, ATEX, GOST	560 mA	
115 V AC	5 J	IECEX, ATEX, UL, GOST	90 mA	
	10 J	IECEX, ATEX, GOST	105 mA	
	20 J	IECEX, ATEX, GOST	260 mA	
230 V AC	5 J	IECEX, ATEX, GOST	45 mA	
	10 J	IECEX, ATEX, GOST	53 mA	
	20 J	IECEX, ATEX, UL, GOST	170 mA	

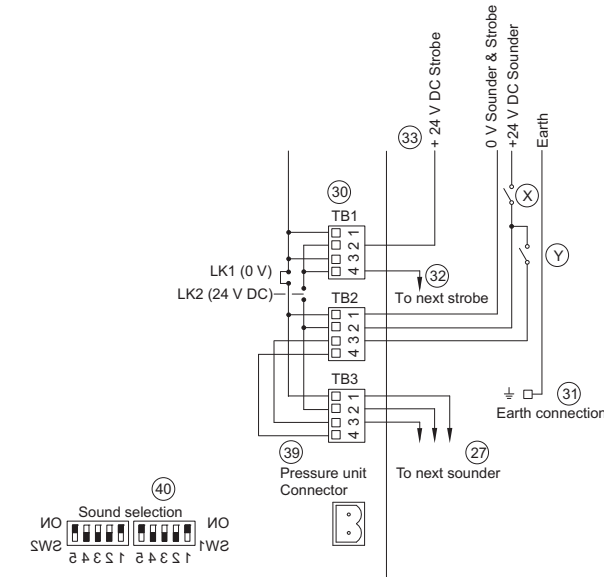
# Explosion Proof Visual Signal - 5, 10 or 20 Joule Series FL60



## Technical Data

Schematic

### Standard DC alarm connection and sound signal selection



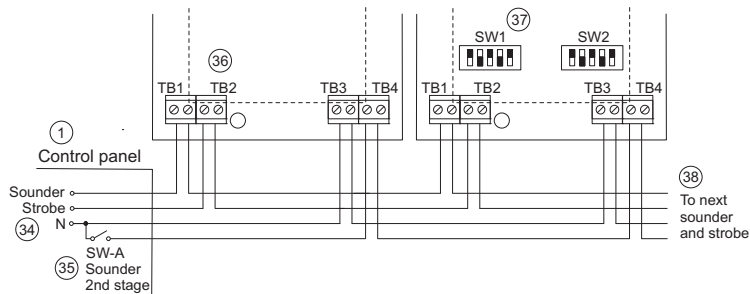
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#### NOTE:

Two stage alarm by third core.  
Strobe shown with common 0 V.  
Line monitoring by reversal.  
Select alarm stage 1 on SW1.  
Select alarm stage 2 on SW2.

The two stage control always operates as follows:  
The first stage sounds by supplying volts to a unit via control switch 'X'. This switch remains on and the second stage signal is controlled by switching volts to the third terminal via switch 'Y'.

### AC alarm connection and sound signal selection



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#### Legend

- 1 = External power supply, provided by user
- 27 = Connections to additional sounder/horn
- 30 = Terminal blocks for incoming and outgoing wiring
- 31 = Internal earth terminal
- 32 = Connections to additional strobe/beacon
- 33 = Control voltage for strobe/beacon (connection to TB1), common voltage for both strobe/beacon and sounder/horn (connection to TB2), control voltage for sounder/horn (connection to TB2)
- 34 = Live voltage for sounder/horn (connection to TB1), live voltage for strobe/beacon (connection to TB2), common neutral for both strobe/beacon and sounder/horn (connection to TB3)
- 35 = Switch for second stage alarm
- 36 = Terminal blocks for incoming and outgoing wiring
- 37 = Dual in line sound selection switches, situated on reverse
- 38 = Connections to additional sounder/horn and strobe beacon
- 39 = Connecting socket used for pressure unit, situated on reverse of the PCB
- 40 = Dual in line sound selection switches, situated on reverse of PCB

### Luminous Characteristics

Flash rate	1/s
Flash energy	5, 10 or 20 J
Lens colour	amber, red, green, opal, blue, clear, yellow

# Explosion Proof Visual Signal - 5, 10 or 20 Joule Series FL60



## Technical Data



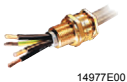
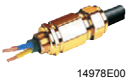
### Ambient conditions

Ambient temperature	version			
IIB	Europe	T4	- 35 ... + 60 °C	
		T6	- 35 ... + 40 °C	
IIB + H <sub>2</sub>	Europe	T4	- 20 ... + 60 °C	
		T6	- 20 ... + 40 °C	

### Mechanical data

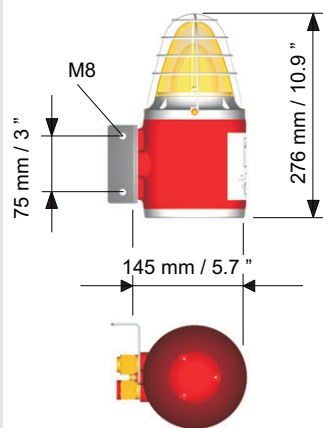
Material	
Enclosure	aluminium, seawater resistant
Globe	polycarbonate
Assembly parts	stainless steel
Degree of protection	IP66, 4X
Cable entries	2 cable entries, equipped with stopping plug (1x) and dust cap (1x) UL devices: equipped with M20 / 1/2" adapters (2x)

### Accessories and Spare Parts

Designation	Illustration	Description	Group	Order number	Art. no.	WebCode
Cable gland		Compound Barrier Cable Glands Ex d and Ex e for all Types of Unarmoured Cables	IIB + H <sub>2</sub> and IIC	<b>8163/2-20-PXSS2K-M20</b>	<b>138888</b>	8163J
		Compound Barrier Cable Glands Ex d and Ex e for all Types of Armoured Cables	IIB + H <sub>2</sub> and IIC	<b>8163/2-20-PX2K-M20</b>	<b>138875</b>	8163I
		Cable Glands Ex d and Ex e for Unarmoured Cables	IIB	<b>8163/2-20-A2F-M20</b>	<b>138772</b>	8163A
		Triton CDS Cable Glands Ex d and Ex e for all Types of Armoured Cables	IIB	<b>8163/2-20-T3CDS-M20</b>	<b>138902</b>	8163K

Note Approvals of cable entries have to be observed.

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



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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.

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