

# Explosion Proof Combination Signal – 110 dB (A) / 5 Joule Series YL60



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14719E00

- > Omnidirectional high output sounder 110 dB (A) / 1 m
- > 5 Joule xenon strobe
- > 2 stage alarm, independently selectable 2nd stage
- > IP66 rated as standard
- > Aluminium enclosure with stainless steel fasteners
- > Flash rate 1 per second
- > 32 selectable tones meeting international regulations
- > Sound selection via DIL switch
- > Lens guard and mounting bracket supplied as standard
- > Telephone initiate option available



## Yodalex range

Combination audible and visual signal designed for use in hazardous or harsh environments.

		ATEX / IECEx								NEC 505			NEC 506				NEC 500						
		0	1	2	20	21	22	Zone		Class I			20	21	22	Division		Class I		Class II		Class III	
Zone								0	1	2						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	x

WebCode YL60A

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## Explosion Protection

### Global (IECEX)

Gas and dust	IIB+H2	IECEX BAS 05.0087X
	IIB	IECEX BAS 05.0086X
	IIB+H2, IIB	IEC 60079-0: 2011 / IEC 60079-1: 2007-04 / IEC 60079-31: 2008
	IIB+H2	Ex d IIB+H2 T4 Gb (Ta = -20 ... +60 °C) Ex tb IIIC T135°C Db IP 66 (Ta = -20 ... +60 °C) Ex d IIB+H2 T6 Gb (Ta = -20 ... +40 °C) Ex tb IIIC T85°C Db IP 66 (Ta = -20 ... +40 °C)
	IIB	Ex d IIB T4 Gb (Ta = -35 ... +60 °C) Ex tb IIIC T135°C Db IP 66 (Ta = -35 ... +60 °C) Ex d IIB T6 Gb (Ta = -35 ... +40 °C) Ex tb IIIC T85°C Db IP 66 (Ta = -35 ... +40 °C)

### Europe (ATEX)

Gas and dust	IIB+H2	Baseefa02ATEX0222X
	IIB	Baseefa02ATEX0212X
	IIB+H2, IIB	EN 60079-0: 2009 / EN 60079-1: 2007 / EN 60079-31: 2009
	IIB+H2	Ⓢ II 2 GD Ex d IIB+H2 T4 Gb (Ta = -20 ... +60 °C) Ⓢ II 2 GD Ex tb IIIC T135°C Db IP 66 (Ta = -20 ... +60 °C) Ⓢ II 2 GD Ex d IIB+H2 T6 Gb (Ta = -20 ... +40 °C) Ⓢ II 2 GD Ex tb IIIC T85°C Db IP 66 (Ta = -20 ... +40 °C)
	IIB	Ⓢ II 2 GD Ex d IIB T4 Gb (Ta = -35 ... +60 °C) Ⓢ II 2 GD Ex tb IIIC T135°C Db IP 66 (Ta = -35 ... +60 °C) Ⓢ II 2 GD Ex d IIB T6 Gb (Ta = -35 ... +40 °C) Ⓢ II 2 GD Ex tb IIIC T85°C Db IP 66 (Ta = -35 ... +40 °C)

### USA and Canada (UL variants)

Gas and dust	IIB+H2, IIB	E161818
	IIB+H2, IIB	SL: UL 60079-0 / UL 60079-1 / UL 1203 / UL 1638 CSA C22.2 No. 30-M1986 / CSA C22.2 No. 25-M1966 / CSA E60079-0-7 / CSA E60079-1
	IIB+H2	Class I, Div. 1, Groups B, C and D Class I, Div. 2, Groups B, C and D  Class 1 Zone 1 AEx d IIB + H <sup>2</sup> T4 Class 1 Zone 1 Ex d IIB + H <sup>2</sup> T4  Operating temperature -25 ... +66 °C Audible signal appliance public mode with supplementary Visual signal appliance private mode
	IIB	Class I, Div. 1, Groups C and D Class I, Div. 2, Groups C and D  Class 1 Zone 1 AEx d IIB T4 Class 1 Zone 1 Ex d IIB T4  Operating temperature -35 ... +66 °C Audible signal appliance public mode with supplementary Visual signal appliance private mode

### Russia (GOST R)

Gas	Marking and certification based on and line with the ATEX product.
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### Certifications and certificates

Certificates	IECEX, ATEX, Brazil (INMETRO), India (PESO), Kazakhstan (GOST K), Russia (GOST R), Taiwan (ITRI), USA (UL)
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## Technical Data

### Electrical data

Rated operational voltage	24 V DC, 48 V DC, 115 V AC and 230 V AC operational parameters + or -10 %	
Rated operational current	24 V DC	570 mA
	48 V DC	435 mA
	115 V AC	200 mA
	230 V AC	100 mA

### Acoustic data

Volume	110 db (A) / 1 m
Sound selection	via DIL-switch

### Luminous characteristics

Effective candela	<b>5 J</b>	
	Clear	30 cd
	Yellow	29 cd
	Amber	17 cd
	Red	9 cd
	Blue	6 cd
	Green	7 cd
No figures for Magenta or Opal lens		
Flash energy	5 J	
Flash rate	60 FPM	

### Ambient conditions

Operating temperature range	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
	IIB	USA	T4	- 35 ... + 66 °C
IIB + H <sub>2</sub>	USA	T4	- 25 ... + 66 °C	

### Mechanical data

Material	
Enclosure	aluminium, seawater resistant
Horn	ABS, flame retardant
Lens cover	polycarbonate
Fixings	stainless steel
Mounting bracket	mild steel with black polyester powder coat finish; supplied as standard
Product label	metalised polyester UL certified variants supplied with stainless steel label
Degree of protection	IP66 – IEC 60529 NEMA 4X – UL 50
Cable entries	2 cable entries, equipped with stopping plug (1x) and dust cap (1x) UL devices: equipped with M20 / 1/2" adaptors (2x)

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**Selection Table**

Version	Group	Flash energy	Rated operational voltage	Lens colour	Order number	Art. no.	Weight			
YL60 Sounder/Strobe, ATEX certification, standard devices	IIB + H <sub>2</sub>	5 Joule	24 V DC	amber	YL60/C/D50/A/EU	205250	6.000			
				red	YL60/C/D50/R/EU	205257	6.000			
			115 V AC	amber	YL60/C/L50/A/EU	205267	6.000			
				red	YL60/C/L50/R/EU	205271	6.000			
			230 V AC	amber	YL60/C/N50/A/EU	205273	6.000			
				red	YL60/C/N50/R/EU	205282	6.000			
			YL60 Sounder/Strobe, UL certification, standard devices	B, C, D	5 Joule	24 V DC	amber	YL60/B/D50/A/UL	205287	6.000
							red	YL60/B/D50/R/UL	205293	6.000
115 V AC	amber	YL60/B/L50/A/UL				205568	6.000			
	red	YL60/B/L50/R/UL				205299	6.000			
230 V AC	amber	YL60/B/N50/A/UL				205301	6.000			
	red	YL60/B/N50/R/UL				212386	6.000			
YL60 Sounder/Strobe, IECEx certification, standard devices	IIB + H <sub>2</sub>	5 Joule				24 V DC	amber	YL60/C/D50/A/IN	210791	6.000
							red	YL60/C/D50/R/IN	209605	6.000
			115 V AC	amber	YL60/C/L50/A/IN	212387	6.000			
				red	YL60/C/L50/R/IN	212388	6.000			
			230 V AC	amber	YL60/C/N50/A/IN	205276	6.000			
				red	YL60/C/N50/R/IN	205284	6.000			
			YL60 Sounder/Strobe, GOST R certification, standard devices	IIB + H <sub>2</sub>	5 Joule	24 V DC	amber	YL60/C/D50/A/RU	212389	6.000
							red	YL60/C/D50/R/RU	205265	6.000
115 V AC	amber	YL60/C/L50/A/RU				212390	6.000			
	red	YL60/C/L50/R/RU				205272	6.000			
230 V AC	amber	YL60/C/N50/A/RU				212391	6.000			
	red	YL60/C/N50/R/RU				212392	6.000			

Note Variations in gas group, flash energy, voltage and lens colour are available, please use the Selection Table

**Selection Table**

Version	Variations	Order Number
YL60 Sounder/Strobe combination, devices acc. to specification	Type code: please fill in fields	YL60 / _ / _ / _ / _ / _ / _ / _
	<b>Gas group</b>	
	EU, IN and RU units IIB B	
	IIB + H <sub>2</sub> C	
	UL units C, D gas groups C	
	B, C, D gas groups B	
	<b>Rated operational voltage</b>	
	24 V DC D	
	48 V DC F	
	115 V AC L	
	230 V AC N	
	<b>Flash energy</b>	
	5 Joule 50	
	<b>Lens colour</b>	
	amber A	
	red R	
	green G	
	opal O	
	blue B	
	clear C	
	yellow Y	
	<b>Certification</b>	
	ATEX EU	
	UL UL	
	IECEx IN	
	GOST-R RU	
	<b>Additions</b>	
	activation telephone initiate TI	
	additional approvals L	





Note Duty + tag labels are available on request. Please contact your local sales office for more details.

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# Explosion Proof Combination Signal – 110 dB (A) / 5 Joule Series YL60



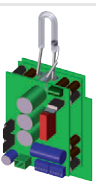


## Accessories and Spare Parts

Designation	Figure	Description	Group	Order number	Art. no.	WebCode
Cable gland	 14976E00	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
	 14742E00	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
	 14977E00	Cable Glands Ex d and Ex e for Unarmoured Cables	IIB	<b>8163/2-20- A2F-M20</b>	<b>138772</b>	8163A
	 14978E00	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.

## Accessories and Spare Parts

Designation	Figure	Description	Art. no.
Mounting bracket	 15795E00	stainless steel bracket fixing kit accessories	<b>210794</b>
Replacement PCB assembly	 16672E00	24 V DC / 5 J	<b>222970</b>
	 16675E00	115...230 V AC / 5 J	<b>209522</b>
Sound reduction kit		sound reduction kit reduce dB output to 75 dB (A) 24 V DC variants	<b>229983</b>

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



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.