

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



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- > 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



14719E00

Yodalex range

Product Series YL60 is designed to provide both an audible and visual alarm which can be used to alert, warn or draw attention to machine malfunction/start up or any number of safety related issues in hazardous areas. The audible and visual signals can be operated independently or as a combination unit.

		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 G Ex d IIB+H2 T4 Gb (Ta = -20 ... +60 °C) Ⓢ II 2 D Ex tb IIIC T135°C Db IP 66 (Ta = -20 ... +60 °C) Ⓢ II 2 G Ex d IIB+H2 T6 Gb (Ta = -20 ... +40 °C) Ⓢ II 2 D Ex tb IIIC T85°C Db IP 66 (Ta = -20 ... +40 °C)
	IIB	Ⓢ II 2 G Ex d IIB T4 Gb (Ta = -35 ... +60 °C) Ⓢ II 2 D Ex tb IIIC T135°C Db IP 66 (Ta = -35 ... +60 °C) Ⓢ II 2 G Ex d IIB T6 Gb (Ta = -35 ... +40 °C) Ⓢ II 2 D Ex tb IIIC T85°C Db IP 66 (Ta = -35 ... +40 °C)

North America (cULus listed)

Gas and dust	IIB+H2, IIB	E161818, E188831
	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, DIVISION 1, GROUPS B, C and D, T4; CLASS II, DIVISION 1, GROUPS E, F and G; CLASS III CLASS 1, ZONE 1 AEx d IIB+H2 T4 CLASS 1, ZONE 1 Ex d IIB+H2 T4 Operating temperature -25 ... +66 °C Audible signal appliance public mode with supplementary Visual signal appliance private mode
IIB	CLASS I, DIVISION 1, GROUPS C and D, T4; CLASS II, DIVISION 1, GROUPS E, F and G; CLASS III 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	

Certifications and certificates

Certificates	IECEX, ATEX, Brazil (INMETRO), India (PESO), Kazakhstan (TR), Russia (TR), Taiwan (ITRI), USA & Canada (cULus), Belarus (TR)
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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	5 J	
	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 ₂	Europe	T4	-20 ... +60 °C
			T6	-20 ... +40 °C
	IIB	USA	T4	-35 ... +66 °C
			T6	-35 ... +66 °C
	IIB + H ₂	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" adapters (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 & IECEx certification, standard devices	IIB + H2	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, North America cULus 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, EAC TR certification, standard devices	IIB + H2	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 / _ / _ / _ / _ / _ / _ / _
	Gas group	
	EU and RU units IIB B	
	IIB + H2 C	
	UL units C, D gas groups C	
	B, C, D gas groups B	
	Rated operational voltage	
	24 V DC D	
	115 V AC L	
	230 V AC N	
	Flash energy	
	5 Joule 50	
	Lens colour	
	amber A	
	red R	
	green G	
	opal O	
	blue B	
	clear C	
	yellow Y	
	Certification	
	ATEX & IECEx EU	
	UL UL	
	EAC TR RU	
	Additions	
	activation telephone initiate (5 Joule ATEX, IECEx & EAC TR variants only) TI	
	additional approvals L	








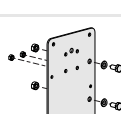

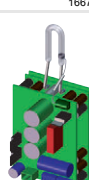
Note Duty + tag labels are available on request. Please contact your local sales office for more details.

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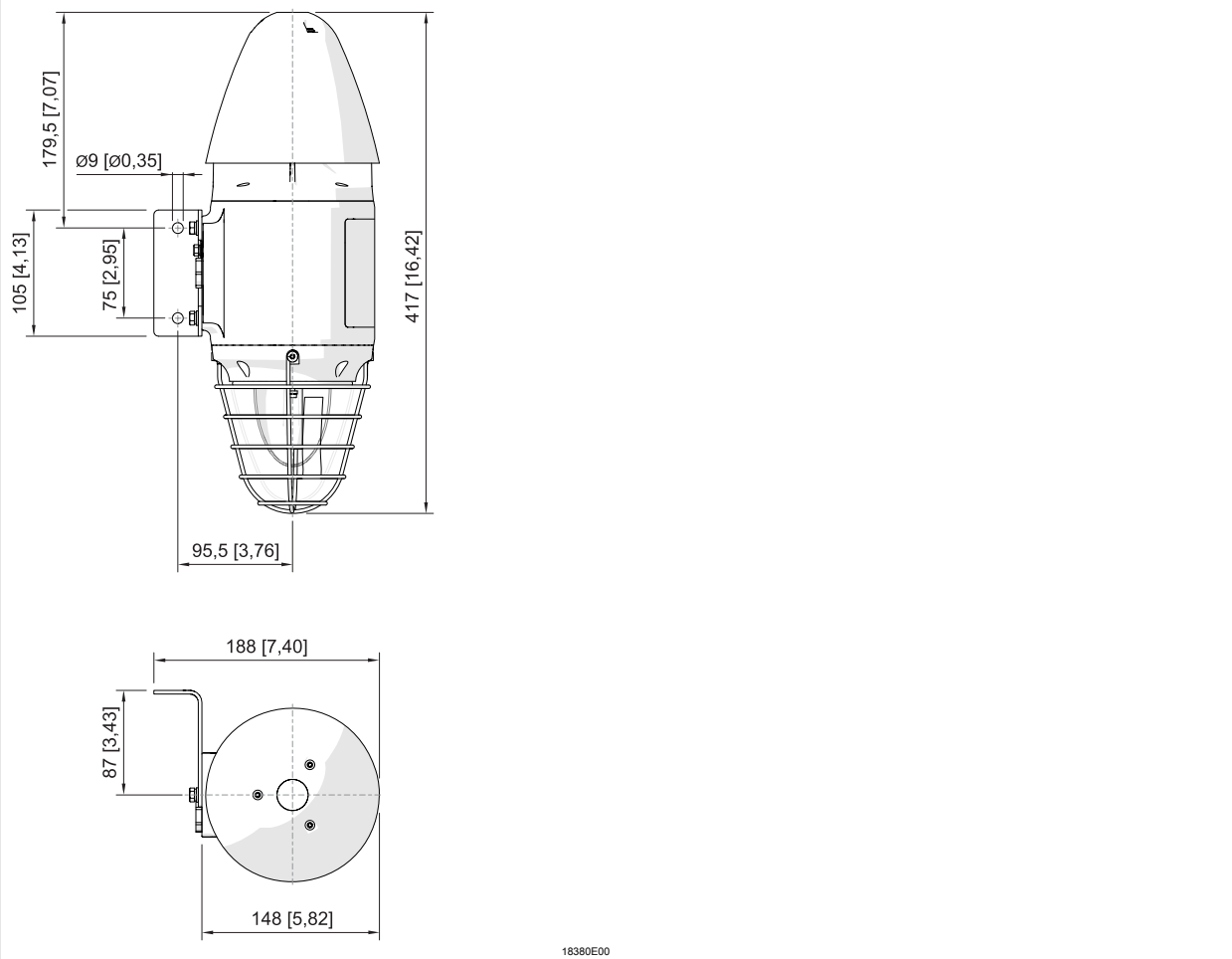
Accessories and Spare Parts

Designation	Figure	Description	Order number	Art. no.	WebCode
Cable glands		Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braided armour cables (nickel plated brass)	CMP -20PXSS2K	109441	PXSS2KA
		RapidEx liquid pour sealing system	CMP -20PXSS2K-REX	246605	PXSS2KB
		Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	CMP -20PX2K	109428	PX2KA
		RapidEx liquid pour sealing system	CMP -20PX2K-REX	246649	PX2KB
		Ex d & Ex e cable gland for all types of unarmoured and braided armour cables (nickel plated brass)	CMP -20A2F	243464	A2FA
		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)	CMP -20T3CDS	246561	T3CDSA
Stopping plugs		made of stainless steel, Series 8294			
		8294/123-M20x1,5 1 piece	8294 / 123 - M20x1,5	143652	8294A
Mounting bracket		Stainless steel L-bracket - see dimensional drawings		221711	
Pipe clamp			R 1 1/4 "	120812	
			R 1 1/2 "	120819	
			R 2 "	120823	
Fastening set adapter plates		Adaptor plate for use in conjunction with pipe clamp		256519	
Replacement PCB assembly		24 V DC / 5 J		222970	
		115 ... 230 V AC / 5 J		209522	
Sound reduction kit		sound reduction kit reduce dB output to 75 dB (A) 24 V DC variants		229983	
Note	Approvals of cable entries have to be observed.				

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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.