

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



- > 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

www.stahl.de



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## 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						Zone	NEC 505 Class I			NEC 506			Division	NEC 500					
	0	1	2	20	21	22		0	1	2	20	21	22		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

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

### Technical data

Product weight 6 kg

### 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

### Mechanical data

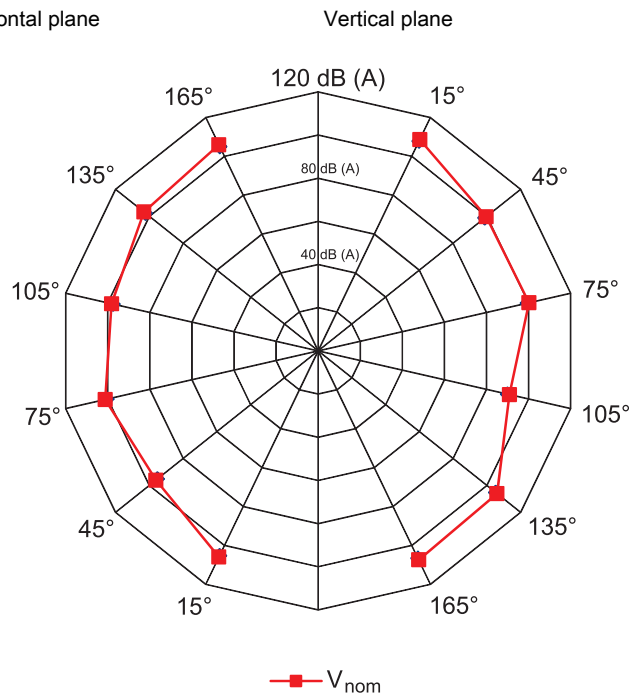
Material  
 Enclosure aluminium, seawater resistant  
 Horn ABS, flame retardant  
 Lens cover polycarbonate  
 Fixings stainless steel  
 Cable entries 2 cable entries, equipped with stopping plug (1x) and dust cap (1x)  
 UL devices: equipped with M20 / 1/2" adapters (2x)  
 Degree of protection IP66 – IEC 60529  
 NEMA 4X – UL 50

### Operating temperature range

Variant dependant see Explosion protection

### Acoustic data

Volume 110 dB(A) / 1 m  
 Polar diagram Horizontal plane



15288E00

### Luminous characteristics

Effective candela 5 J  
 Clear 46 cd  
 Yellow 42 cd  
 Amber 28 cd  
 Red 14 cd  
 Blue 13 cd  
 Green 10 cd  
 Magenta N/A  
 Candela seconds 5 J 9.3 lumens Clear lens  
 Flash energy 5 J  
 Flash rate 60 FPM

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**Selection Table**

Version	Group	Flash energy	Rated operational voltage	Lens colour	Order number	Art. no.	Weight kg
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**


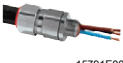





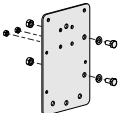

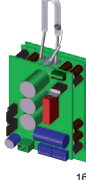
Version	Variations	Order Number
YL60 Sounder/Strobe combination, devices acc. to specification	<b>Type code:</b> please fill in fields	YL60 / - / - / - / - / -
	<b>Gas group</b>	
	EU and RU units IIB B	
	IIB + H2 C	
	UL units C, D gas groups C	
	B, C, D gas groups B	
	<b>Rated operational voltage</b>	
	24 V DC D	
	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 & IECEX EU		
UL UL		
EAC TR RU		
<b>Additions</b>		
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

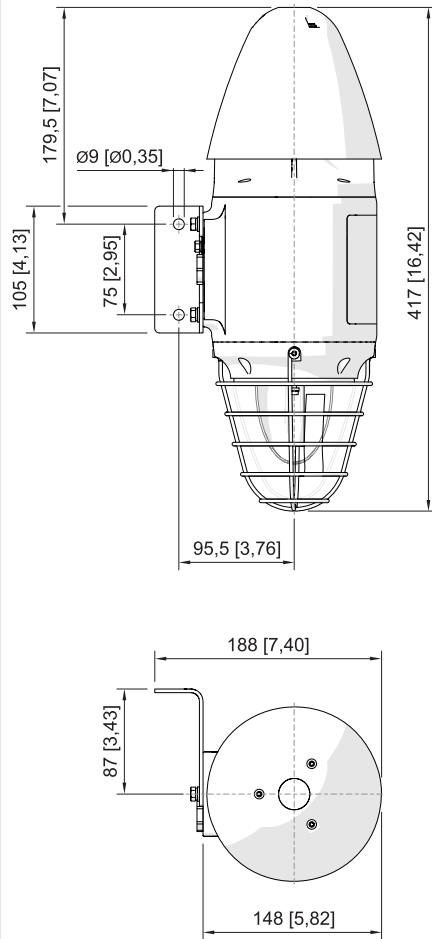
Designation	Figure	Description	Order number	Art. no.	WebCode
Cable glands	 15793E00	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass) RapidEx liquid pour sealing system	<b>CMP - 20PXSS2K</b>	<b>109441</b>	PXSS2KA
	 15791E00	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) RapidEx liquid pour sealing system	<b>CMP - 20PX2K</b>	<b>109428</b>	PX2KA
	 14977E00	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	<b>CMP - 20A2F</b>	<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>CMP - 20T3CDS</b>	<b>246561</b>	T3CDSA
Stopping plugs	 04840E00	made of stainless steel, Series 8294			
		8294/123-M20x1,5                      1 piece	<b>8294 / 123 - M20x1,5</b>	<b>143652</b>	8294A
Mounting bracket	 15795E00	Stainless steel L-bracket - see dimensional drawings		<b>221711</b>	
Pipe clamp	 09349E00	R 1 1/4 "		<b>120812</b>	
		R 1 1/2 "		<b>120819</b>	
		R 2 "		<b>120823</b>	
Fastening set adapter plates	 18552E00	Adaptor plate for use in conjunction with pipe clamp		<b>256519</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>	
Note	Approvals of cable entries have to be observed.				

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



## 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.