

GRP Flameproof Combination Signal - 110 dB(A) / 5 Joule Series YL6S



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17155E00

- > Corrosion resistant omnidirectional high output sounder
- > Integrated Ex d enclosure
- > Extreme temperature range
- > 3 stage alarm with independent tone selection for V DC systems
- > IP66 & IP67
- > Volume control with 18 dB adjustment
- > Lightweight (4.4 kg)
- > Xenon strobe with light enhancing fresnel lens
- > Flash rate 1 per second
- > 32 internationally recognised selectable tones
- > Sound selection via DIL switch
- > Blocking diode for line monitoring
- > Stainless steel lens guard and bracket supplied as standard
- > ATEX & IECEx approval



Yodalex Super Series

Product Series YL6S 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. The audible and visual signals can be operated independently or as a combination unit. Corrosion resistance is a key feature of the device which is ideally suited for applications in the harshest of environments both onshore and offshore.

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

WebCode YL6SA

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Explosion Protection

Global (IECEX)

Gas and dust	IECEX BAS 14.0064 IEC 60079-0: 2011 / IEC 60079-1: 2007 / IEC 60079-31: 2013 Ex d IIB T* Ta -** ... +** °C Gb Ex d IIC T* Ta -** ... +** °C Gb Ex tb IIIC T*** °C Ta -** ... +** °C Db IP66
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Europe (ATEX)

Gas and dust	Baseefa14ATEX0126 EN 60079-0: 2012 / EN 60079-1: 2007 / EN 60079-31: 2009 (IEC 60079-31: 2013) ⊕ II 2 G Ex d IIB T* Ta -** ... Ta +** °C Gb ⊕ II 2 G Ex d IIC T* Ta -** ... Ta +** °C Gb ⊕ II 2 D Ex tb IIIC T*** °C Ta -** ... +** °C Db IP66
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Product variant table

Certified hazardous area protection temperatures

Power and voltage	Temperature class	Max. surface temperature	Ambient temperature range
5 J 24 V DC	T5	T95 °C	-60 ... +40 °C
	T4	T110 °C	-60 ... +55 °C
5 J 48 V DC	T5	T95 °C	-60 ... +40 °C
	T4	T110 °C	-60 ... +55 °C
5 J 115 V AC	T5	T95 °C	-60 ... +40 °C
	T4	T110 °C	-60 ... +55 °C
5 J 230 V AC	T5	T95 °C	-60 ... +40 °C
	T4	T110 °C	-60 ... +55 °C

Certifications and certificates

Certificates	IECEX, ATEX
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Ambient conditions

Operating temperature range	24/48 V DC	-50 ... +55 °C
	115 V AC	-40 ... +45 °C
	230 V AC	-40 ... +55 °C
For further information see the operation manual		

E5

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Technical Data

Electrical data

Rated operational voltage	24 or 48 V DC 115 or 230 V AC			
Current consumption		Combined function	Strobe only	Sounder only
	24 V DC	600 mA	320 mA	280 mA
	48 V DC	420 mA	170 mA	250 mA
	115 V AC	280 mA	204 mA	76 mA
	230 V AC	115 mA * tone 1	75 mA	40 mA
Operational parameters	+/-10 %			
Line monitoring	yes			

Acoustic data

Volume	max. 110 dB(A)		
Volume control	18 dB(A) adjustment		
Sound stages	24 / 48 V DC	3	
	115 / 230 V AC	2	
Sound selection	via DIL switch		

Luminous characteristics

Light source	Xenon flash tube		
Flash energy	5 J		
Flash rate	1/s		
Light intensity		Effective candela (cd)	Candela seconds
	clear	49	9.96
Lens colour	amber, red, green, opal, blue, clear, yellow, magenta		

Mechanical data

Material	
Enclosure	glass reinforced polyester
Horn and trumpet	flame retardant ABS
Lens cover	polycarbonate
Wire guard	stainless steel
Assembly parts	stainless steel
Bracket	stainless steel
Labels	polyester foil, adhesive
Degree of protection	IP66 / IP67 acc. to IEC 60529

Mounting / Installation

Connection	2.5 mm ² terminals
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Selection Table - Standard variants

Version	Gas group	Rated operational voltage	Lens colour	Order number	Art. no.	Weight	
						kg	
GRP Flameproof combination signal - 110 dB (A) / 5 Joule	IIC	24 V DC	clear	YL6S/C-D-050-C-EN-SF-A-ST-00-00-00	225072	4.440	
			opal	YL6S/C-D-050-O-EN-SF-A-ST-00-00-00	225073	4.440	
			yellow	YL6S/C-D-050-Y-EN-SF-A-ST-00-00-00	225074	4.440	
			red	YL6S/C-D-050-R-EN-SF-A-ST-00-00-00	225075	4.440	
			amber	YL6S/C-D-050-A-EN-SF-A-ST-00-00-00	225076	4.440	
			blue	YL6S/C-D-050-B-EN-SF-A-ST-00-00-00	225078	4.440	
			green	YL6S/C-D-050-G-EN-SF-A-ST-00-00-00	225079	4.440	
			magenta	YL6S/C-D-050-M-EN-SF-A-ST-00-00-00	225080	4.440	
		48 V DC	clear	YL6S/C-F-050-C-EN-SF-A-ST-00-00-00	225081	4.440	
			opal	YL6S/C-F-050-O-EN-SF-A-ST-00-00-00	225083	4.440	
			yellow	YL6S/C-F-050-Y-EN-SF-A-ST-00-00-00	225084	4.440	
			red	YL6S/C-F-050-R-EN-SF-A-ST-00-00-00	225086	4.440	
			amber	YL6S/C-F-050-A-EN-SF-A-ST-00-00-00	225087	4.440	
			blue	YL6S/C-F-050-B-EN-SF-A-ST-00-00-00	225088	4.440	
	green		YL6S/C-F-050-G-EN-SF-A-ST-00-00-00	225089	4.440		
	magenta		YL6S/C-F-050-M-EN-SF-A-ST-00-00-00	225090	4.440		
	115 V AC	clear	YL6S/C-L-050-C-EN-SF-A-ST-00-00-00	225101	4.440		
			YL6S/C-L-050-O-EN-SF-A-ST-00-00-00	225102	4.440		
			YL6S/C-L-050-Y-EN-SF-A-ST-00-00-00	225103	4.440		
			YL6S/C-L-050-R-EN-SF-A-ST-00-00-00	225104	4.440		
			YL6S/C-L-050-A-EN-SF-A-ST-00-00-00	225105	4.440		
			YL6S/C-L-050-B-EN-SF-A-ST-00-00-00	225106	4.440		
			YL6S/C-L-050-G-EN-SF-A-ST-00-00-00	225107	4.440		
		opal	YL6S/C-L-050-M-EN-SF-A-ST-00-00-00	225108	4.440		
			230 V AC	clear	YL6S/C-N-050-C-EN-SF-A-ST-00-00-00	225109	4.440
				opal	YL6S/C-N-050-O-EN-SF-A-ST-00-00-00	225110	4.440
				yellow	YL6S/C-N-050-Y-EN-SF-A-ST-00-00-00	225111	4.440
				red	YL6S/C-N-050-R-EN-SF-A-ST-00-00-00	225112	4.440
				amber	YL6S/C-N-050-A-EN-SF-A-ST-00-00-00	225113	4.440
				blue	YL6S/C-N-050-B-EN-SF-A-ST-00-00-00	225114	4.440
green	YL6S/C-N-050-G-EN-SF-A-ST-00-00-00	225115		4.440			
magenta	YL6S/C-N-050-M-EN-SF-A-ST-00-00-00	225116	4.440				

E5

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Selection Table


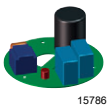
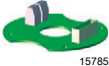
Version	Variations		Order Number
GRP Flameproof combination signal - 110 dB (A) / 5 Joule, devices acc. to specification	Type code: please fill in fields		YL6S / . . . - 050 - . . - EN - . . - A - ST - . . - . . - 00
	Gas group	IIC C IIB B	
	Rated operational voltage	24 V DC D 48 V DC F 115 V AC L 230 V AC N	
	Flash energy	5 Joule Xenon strobe 050	
	Lens colour	Clear C Opal O Yellow Y Red R Amber A Blue B Green G Magenta M	
	Certification	ATEX & IECEx EN	
	Body colour	Standard finish SF Black Red RN	
	Cable entries	2 x M20 A	
	Specification	Standard R. STAHL ST	
	Identification labels	without 00 Duty label DL Tag label TL Duty + Tag label DT	
	Activation	Standard 00 Telephone initiate TI	
	Additional approvals	None 00	

E5

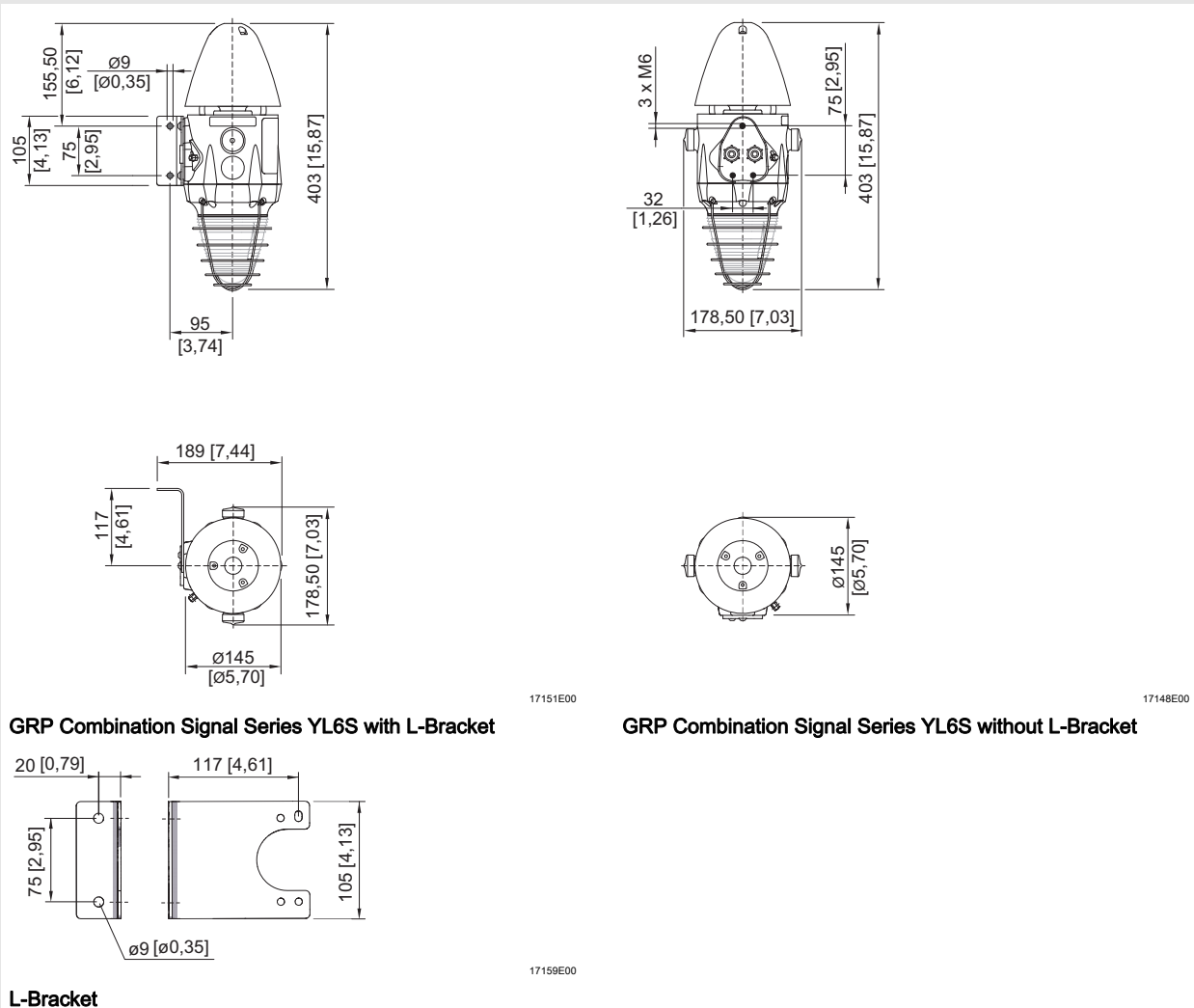
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Accessories and Spare Parts

Designation	Figure	Description	Art. no.	Weight & kg
Xenon tube		Xenon tube assembly	223636	0.006
PCB		PCB assembly 24 V DC 5J	223635	0.080
		PCB assembly 48 V DC 5J	223634	0.080
		PCB assembly 110 V AC 5J	223632	0.118
		PCB assembly 230 V AC 5J	223580	0.100
PCB termination		PCB assembly termination	223579	0.020

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



GRP Combination Signal Series YL6S with L-Bracket

GRP Combination Signal Series YL6S without L-Bracket

L-Bracket

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.