

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

H1



14719E00

Yodalex range
Combination audible and 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)

Dust explosion protection

IIB+H₂ version: Ex d IIB+H₂ T4 (Ta -20°C to +60°C)

IIB version: Ex tD A21 IP66 T135°C (Ta -35°C to +60°C)

IIB+H₂ version: Ex tD A21 IP66 T135°C (Ta -35°C to +60°C)

Europe (ATEX)
Europe (ATEX)

IIB version: Ex II 2 GD Ex d IIB T4 (T6 on request)

IIB+H₂ version: Ex II 2 GD Ex d IIB+H₂ T4 (T6 on request)

Certificates

IECEX

IIB version: IECEX BAS 05.0086 X

IIB+H₂ version: IECEX BAS 05.0087X

Europe (ATEX)

IIB version: Baseefa 02ATEX0212X

IIB+H₂ version: Baseefa 02ATEX0222X

Other approvals

Canada (CUL), Russia (GOST-R), USA (UL), Brazil (INMETRO)

WebCode YL60A

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

Series YL60



Selection Table

Version	Group	Flash energy	Rated operational voltage	Lens colour	Order number	Art. no.	Weight
							kg
YL60 Sounder/Strobe, ATEX certification, standard devices	IIB + H ₂	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	IIB + H ₂	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 ₂	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 ₂	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 table below to order						

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

Series YL60



Selection Table

Version	Variations		Order Number						
YL60 Sounder/Strobe combination, devices acc. to specification	Type code: please fill in fields		YL60	/	-	/	-	/	-
	Gas group								
	EU, IN and RU units	IIB	B						
		IIB + H2	C						
	UL units	C, D gas groups	C						
		B gas groups	B						
	Rated operational voltage								
	24 V DC	D							
	48 V DC	F							
	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	EU							
	UL	UL							
	IECEX	IN							
	GOST-R	RU							
	Additions								
	activation	telephone initiate	TI						
	AC voltages only								

H1

Clifford & Snell

Electrical data

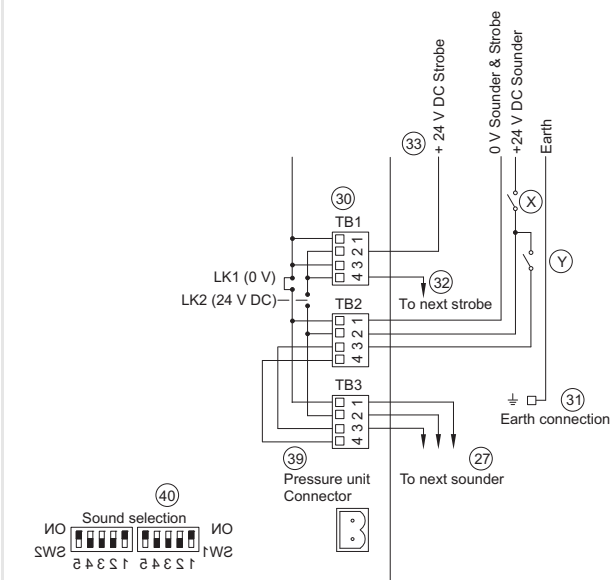
24 V DC, 115 or 230 V AC

24 V DC	5 J	IECEX, ATEX, UL, GOST	570 mA
---------	-----	-----------------------	--------

115 V AC	5 J	IECEX, ATEX, UL, GOST	200 mA
----------	-----	-----------------------	--------

230 V AC	5 J	IECEX, ATEX, UL, GOST	100 mA
----------	-----	-----------------------	--------

Standard DC alarm connection and sound signal selection



14809E00

NOTE:

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'.

Diagram 1 illustrates the connection of the control panel to the sounder and strobe. The control panel has terminals TB1, TB2, TB3, and TB4. The sounder and strobe unit also has terminals TB1, TB2, TB3, and TB4. The control panel is connected to the sounder and strobe unit via a cable. The sounder and strobe unit is connected to the next sounder and strobe unit via a cable. The diagram includes labels for 'Control panel', 'Sounder', 'Strobe', 'N', 'SW-A', 'Sounder', '2nd stage', 'To next sounder and strobe', and 'SW1'.

14810E00

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

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

Series YL60



Technical Data

Acoustic data

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

Luminous Characteristics

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

Ambient conditions

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

Mechanical data

Material	
Enclosure	aluminium, seawater resistant
Horn	ABS, flame retardant
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 ₂ and IIC	8163/2-20-PXSS2K-M20	138888	8163J
		Compound Barrier Cable Glands Ex d and Ex e for all Types of Armoured Cables	IIB + H ₂ and IIC	8163/2-20-PX2K-M20	138875	8163I
		Cable Glands Ex d and Ex e for Unarmoured Cables	IIB	8163/2-20-A2F-M20	138772	8163A
		Triton CDS Cable Glands Ex d and Ex e for all Types of Armoured Cables	IIB	8163/2-20-T3CDS-M20	138902	8163K

Note Approvals of cable entries have to be observed.

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.