

# Audible and visual signalling device

Series YL6S - Ex d, max. 110 dB(A), XENON, GRP

STAHL



- Lamp: Flashing beacon – XENON (5 J)
- Horn: Omnidirectional/max. 110 dB(A)
- Type of protection: Ex d
- Class: IP66 (IEC 60529/NEMA 4X)
- Corrosion-resistant GRP enclosure
- Stainless steel protection cage and mounting bracket included
- 8 light-intensifying Fresnel lens colours available to order
- 32 standardised preconfigured signal sounds (PFEER/UKOOA compatible)
- Individual signal sounds can be chosen (2 for AC versions, 3 for DC versions)
- Signal sound reduction up to 18 dB(A) adjustable
- Telephone system connection/line monitoring optionally available to order

E5

WebCode YL6SA



**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.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table						
Number of stages	2					
Certificates	ATEX (BAS), IECEx (BAS)					
Lens colour	Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	Weight kg
Amber	115 V	–	280 mA	YL6S/C-L-050-A-EN-SF-A-ST-00-00-00	225105	4.440
	230 V	–	115 mA	YL6S/C-N-050-A-EN-SF-A-ST-00-00-00	225113	4.440
Blue	115 V	–	280 mA	YL6S/C-L-050-B-EN-SF-A-ST-00-00-00	225106	4.440
	230 V	–	115 mA	YL6S/C-N-050-B-EN-SF-A-ST-00-00-00	225114	4.440
Clear	115 V	–	280 mA	YL6S/C-L-050-C-EN-SF-A-ST-00-00-00	225101	4.440
	230 V	–	115 mA	YL6S/C-N-050-C-EN-SF-A-ST-00-00-00	225109	4.440
Green	230 V	–	115 mA	YL6S/C-N-050-G-EN-SF-A-ST-00-00-00	225115	4.440
Red	115 V	–	280 mA	YL6S/C-L-050-R-EN-SF-A-ST-00-00-00	225104	4.440
	230 V	–	115 mA	YL6S/C-N-050-R-EN-SF-A-ST-00-00-00	225112	4.440
Yellow	115 V	–	280 mA	YL6S/C-L-050-Y-EN-SF-A-ST-00-00-00	225103	4.440
	230 V	–	115 mA	YL6S/C-N-050-Y-EN-SF-A-ST-00-00-00	225111	4.440

## Selection Table

Number of stages Certificates						
3 ATEX (BAS), IECEx (BAS)						
Lens colour	Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	Weight kg
Amber	-	24 V	600 mA	YL6S/C-D-050-A-EN-SF-A-ST-00-00-00	225076	4.440
		48 V	420 mA	YL6S/C-F-050-A-EN-SF-A-ST-00-00-00	225087	4.440
Blue	-	24 V	600 mA	YL6S/C-D-050-B-EN-SF-A-ST-00-00-00	225078	4.440
Clear	-	24 V	600 mA	YL6S/C-D-050-C-EN-SF-A-ST-00-00-00	225072	4.440
		48 V	420 mA	YL6S/C-F-050-C-EN-SF-A-ST-00-00-00	225081	4.440
Green	-	24 V	600 mA	YL6S/C-D-050-G-EN-SF-A-ST-00-00-00	225079	4.440
Red	-	24 V	600 mA	YL6S/C-D-050-R-EN-SF-A-ST-00-00-00	225075 ▲	4.440
		48 V	420 mA	YL6S/C-F-050-R-EN-SF-A-ST-00-00-00	225086	4.440
Yellow	-	24 V	600 mA	YL6S/C-D-050-Y-EN-SF-A-ST-00-00-00	225074	4.440
		48 V	420 mA	YL6S/C-F-050-Y-EN-SF-A-ST-00-00-00	225084	4.440
Number of stages Certificates						
3 EAC (Sertium), Russian Federation (TPB SER)						
Lens colour	Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	Weight kg
Red	-	24 V	600 mA	YL6S/C-D-050-R-RU-SF-A-ST-00-00-00	262796	4.440
Yellow	-	24 V	600 mA	YL6S/C-D-050-Y-RU-SF-A-ST-00-00-00	277868	4.440

Additional gas group variants and local certifications are available; please use the selection table online at r-stahl.com. WebCode YL6SA

## Technical Data

Variant	YL6S/-...-EN	YL6S/-...-RU
<b>Explosion Protection</b>		
IECEx gas explosion protection	Ex d IIC T5/T4 Gb	
IECEx gas explosion protection	Ex d IIC T4 Gb	
IECEx dust explosion protection	Ex tb IIIIC T95 °C ... T110 °C Db	
IECEx dust explosion protection 2	Ex tb IIIIC T110 °C Db	
ATEX gas explosion protection	⊕ II 2 G Ex d IIC T5/T4 Gb	
ATEX gas explosion protection	⊕ II 2 G Ex d IIC T4 Gb	
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIIC T95 °C ... T110 °C Db	
ATEX dust explosion protection 2	⊕ II 2 D Ex tb IIIIC T110 °C Db	
EAC gas explosion protection		⊠ 1 Ex d IIC/IB T5 Gb ⊠ 1 Ex d IIC/IB T4 Gb
EAC dust explosion protection		⊠ 1 Ex tb IIIIC T95°C Db ⊠ 1 Ex tb IIIIC T110°C Db
<b>Electrical Data</b>		
Line monitoring	Yes	Yes
Tolerance	-10 – 10 %	-10 – 10 %
<b>Acoustic Data</b>		
Sound pressure level	max. 110 dB(A) @ 1 m	max. 110 dB(A) @ 1 m
Tone selection	Via DIL switch	Via DIL switch


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STAHL



E5

Technical Data		
Variant	YL6S/-...-EN	YL6S/-...-RU
Acoustic Data		
Volume control	18 dB (A) adjustment	18 dB (A) adjustment
Ambient Conditions		
Ambient temperature	-60 °C ... +40 °C (T5) -60 °C ... +55 °C (T4)	-60 °C ... +40 °C (T5) -60 °C ... +55 °C (T4)
Operating temperature	-50 °C ... +55 °C	-50 °C ... +55 °C
Lighting Data		
Lamp	Xenon flash tubes	Xenon flash tubes
Flash energy	5 J	5 J
Flash rate	1 Hz	1 Hz
Mechanical Data		
Degree of protection IP (IEC 60529)	IP66/IP67	IP66/IP67
Enclosure material	Polyester, Glass fibre reinforced	Polyester, Glass fibre reinforced
Trumpet material	ABS, flame retardant	ABS, flame retardant
Material dome	Polycarbonate, prismatic	Polycarbonate, prismatic
Material wire guard	Stainless steel	Stainless steel
Connection terminals solid max.	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Connection terminals finely-stranded max.	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Mounting / Installation		
Material mounting parts	Stainless steel	Stainless steel
Components		
Drilled holes	2 x M20	2 x M20
Stopping plug	2 x dust cap	2 x dust cap
You can find more technical data online at <a href="http://r-stahl.com">r-stahl.com</a> . WebCode YL6SA		

Accessories			
Figure	Description	Art. No.	Weight kg
Cable glands			
	Ex e adapter for ATEX - 20 °C to +50/60 °C	264252	0.270

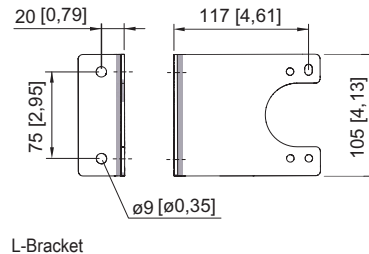
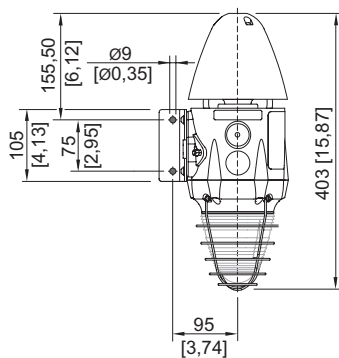
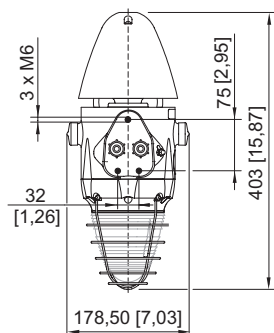
Spare Parts			
Figure	Description	Art. No.	Weight kg
Flange			
	Flange assembly standard, amber	243407	1.190
	Flange assembly standard, blue	243406	1.190
	Flange assembly standard, clear	223578	1.190
	Flange assembly standard, green	243405	1.190
	Flange assembly standard, red	243408	1.190
	Flange assembly standard, yellow	243409	1.190
PCB			
	PCB assembly 110 V AC 5J, for 5 Joule Xenon flashing beacons	223632	0.118
	PCB assembly 230 V AC 5J, for 5 Joule Xenon flashing beacons	223580	0.100
	PCB assembly 24 V DC 5J, for 5 Joule Xenon flashing beacons	223635	0.080

## Spare Parts

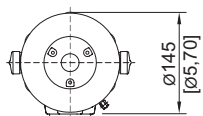
Figure	Description	Art. No.	Weight kg
<b>PCB</b>			
	PCB assembly termination, for 5 Joule Xenon beacon only	223579	0.020
<b>Xenon tube</b>			
	Replacement xenon tube assembly	223636	0.006

A lens wire guard (VA) and bracket (VA) are supplied as standard.

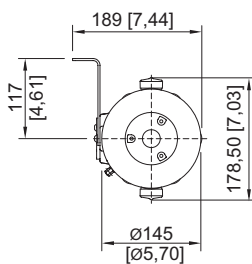
## Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



L-Bracket



GRP  
Combination Signal Series YL6S without L-Bracket



GRP Combination Signal Series YL6S with L-Bracket