

SIGNALLING DEVICES



Product	Installation in Zone						Series	Page	WebCode
	0	1	2	20	21	22			
Audible and Visual Signalling Devices									
Combined Audible and Visual Signalling Devices - Flameproof Version; max. 110 dB(A) @ 1 m / 5 J		•	•		•	•	YL6S	499	YL6SA
Combined Audible and Visual Signalling Devices - Flameproof Version; max. 110 dB(A) @ 1 m / 5 J		•	•		•	•	YL60	503	YL60A
Audible Signalling Devices									
Audible Signalling Devices - Explosion Protected Signal Horn; max. 105 dB(A) @ 1 m		•	•		•	•	8491	519	8491A
Audible Signalling Devices - Flameproof Version; max. 100 dB(A) @ 1 m			•			•	YA11	516	YA11A
Audible Signalling Devices - Flameproof Version; max. 110 dB(A) @ 1 m		•	•		•	•	YA6S	510	YA6SA
Audible Signalling Devices - Flameproof Version; max. 110 dB(A) @ 1 m		•	•		•	•	YA60	513	YA60A
Audible Signalling Devices - Flameproof Version; max. 115 dB(A) @ 1 m		•	•		•	•	YA90	507	YA90A
Audible Signalling Devices - Hazardous Area Loudspeaker		•	•		•	•	8494	522	8494A
Control Devices									
Manual Call Point - Flameproof Version		•	•		•	•	MCP	551	MCPA
Visual Signalling Devices									
Visual Signalling Devices - Flameproof Version; LED		•	•		•	•	FX15	530	FX15A
Visual Signalling Devices - Flameproof Version; Xenon 5, 10, 20 J		•	•		•	•	FL60	538	FL60B
Visual Signalling Devices - Flameproof Version; Xenon 5 J		•	•		•	•	FL6S	526	FL6SA
Visual Signalling Devices - Flameproof Version; Xenon 5 J		•	•		•	•	FX15	533	FX15B
Visual Signalling Devices - Flameproof Version with Ex e Connection Chamber		•	•		•	•	6162	547	6162A
Xenon Strobe, 5 Joule - Flameproof Version with Ex e Connection Chamber		•	•		•	•	6161	543	6161A

For additional products and information please refer to r-stahl.com



- Corrosion-resistant, GRP Ex d enclosure
- Omnidirectional sounder max. 110 dB(A) @ 1 m
- 5 Joule xenon strobe
- 3-stage alarm (DC) / 2-stage alarm, operate independently of each other
- Each with 32 selectable tones in accordance with international regulations
- Independent tone selection using a DIL switch for each pitch
- Volume control with 18 dB(A) adjustment
- Xenon strobe with light enhancing fresnel lens
- Flash rate 1 Hz
- IP66 & IP67
- Lightweight (4.4 kg)

WebCode **YL6SA**



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.

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

Selection Table							
Pitch Certificates	2 ATEX (BAS), IECEx (BAS)						
Lens colour	Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg
Blue	115 V	-	280 mA	YL6S/C-L-050-B-EN-SF-A-ST-00-00-00	225106	80	4.440
	230 V	-	115 mA	YL6S/C-N-050-B-EN-SF-A-ST-00-00-00	225114	80	4.440
Clear	115 V	-	280 mA	YL6S/C-L-050-C-EN-SF-A-ST-00-00-00	225101	80	4.440
	230 V	-	115 mA	YL6S/C-N-050-C-EN-SF-A-ST-00-00-00	225109	80	4.440
Green	230 V	-	115 mA	YL6S/C-N-050-G-EN-SF-A-ST-00-00-00	225115	80	4.440
Orange	115 V	-	280 mA	YL6S/C-L-050-A-EN-SF-A-ST-00-00-00	225105	80	4.440
	230 V	-	115 mA	YL6S/C-N-050-A-EN-SF-A-ST-00-00-00	225113	80	4.440
Red	115 V	-	280 mA	YL6S/C-L-050-R-EN-SF-A-ST-00-00-00	225104	80	4.440
	230 V	-	115 mA	YL6S/C-N-050-R-EN-SF-A-ST-00-00-00	225112	80	4.440
Yellow	115 V	-	280 mA	YL6S/C-L-050-Y-EN-SF-A-ST-00-00-00	225103	80	4.440
	230 V	-	115 mA	YL6S/C-N-050-Y-EN-SF-A-ST-00-00-00	225111	80	4.440

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Selection Table							
Pitch Certificates		3 ATEX (BAS), IECEx (BAS)					
Lens colour	Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg
Blue	-	24 V	600 mA	YL6S/C-D-050-B-EN-SF-A-ST-00-00-00	225078	80	4.440
Clear	-	24 V	600 mA	YL6S/C-D-050-C-EN-SF-A-ST-00-00-00	225072	80	4.440
		48 V	420 mA	YL6S/C-F-050-C-EN-SF-A-ST-00-00-00	225081	80	4.440
Green	-	24 V	600 mA	YL6S/C-D-050-G-EN-SF-A-ST-00-00-00	225079	80	4.440
Orange	-	24 V	600 mA	YL6S/C-D-050-A-EN-SF-A-ST-00-00-00	225076	80	4.440
		48 V	420 mA	YL6S/C-F-050-A-EN-SF-A-ST-00-00-00	225087	80	4.440
Red	-	24 V	600 mA	YL6S/C-D-050-R-EN-SF-A-ST-00-00-00	225075 ▲	80	4.440
		48 V	420 mA	YL6S/C-F-050-R-EN-SF-A-ST-00-00-00	225086	80	4.440
Yellow	-	24 V	600 mA	YL6S/C-D-050-Y-EN-SF-A-ST-00-00-00	225074	80	4.440
		48 V	420 mA	YL6S/C-F-050-Y-EN-SF-A-ST-00-00-00	225084	80	4.440
Pitch 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.	PS	Weight kg
Red	-	24 V	600 mA	YL6S/C-D-050-R-RU-SF-A-ST-00-00-00	262796	80	4.440

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

Technical Data

Variant	YL6S/-...-EN	YL6S/-...-RU
Explosion Protection		
IECEx gas explosion protection	Ex d IIC T5/T4 Gb	
IECEx dust explosion protection	Ex tb IIIC T95 °C ... T110 °C Db	
ATEX gas explosion protection	Ⓔ II 2 G Ex d IIC T5/T4 Gb	
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T95 °C ... T110 °C Db	
EAC gas explosion protection		Ⓔ 1 Ex d IIC/II B T5 Gb Ⓔ 1 Ex d IIC/II B T4 Gb
EAC dust explosion protection		Ⓔ 1 Ex tb IIIC T95 °C Db Ⓔ 1 Ex tb IIIC T110 °C Db
Electrical Data		
Line monitoring	Yes	Yes
Tolerance	-10 - 10 %	-10 - 10 %
Acoustic Data		
Sound pressure level	max. 110 dB(A) @ 1 m	max. 110 dB(A) @ 1 m
Tone selection	Via DIL switch	Via DIL switch
Volume control	18 dB (A) adjustment	18 dB (A) adjustment
Ambient Conditions		
Ambient temperature	-60 °C ... +40 °C (IIC T5) (T95 °C) -60 °C ... +55 °C (IIC T4) (T110 °C)	-60 °C ... +40 °C (T5) (T95 °C) -60 °C ... +55 °C (T4) (T110 °C)
Operating temperature	-40 °C ... +45 °C	-50 °C ... +55 °C

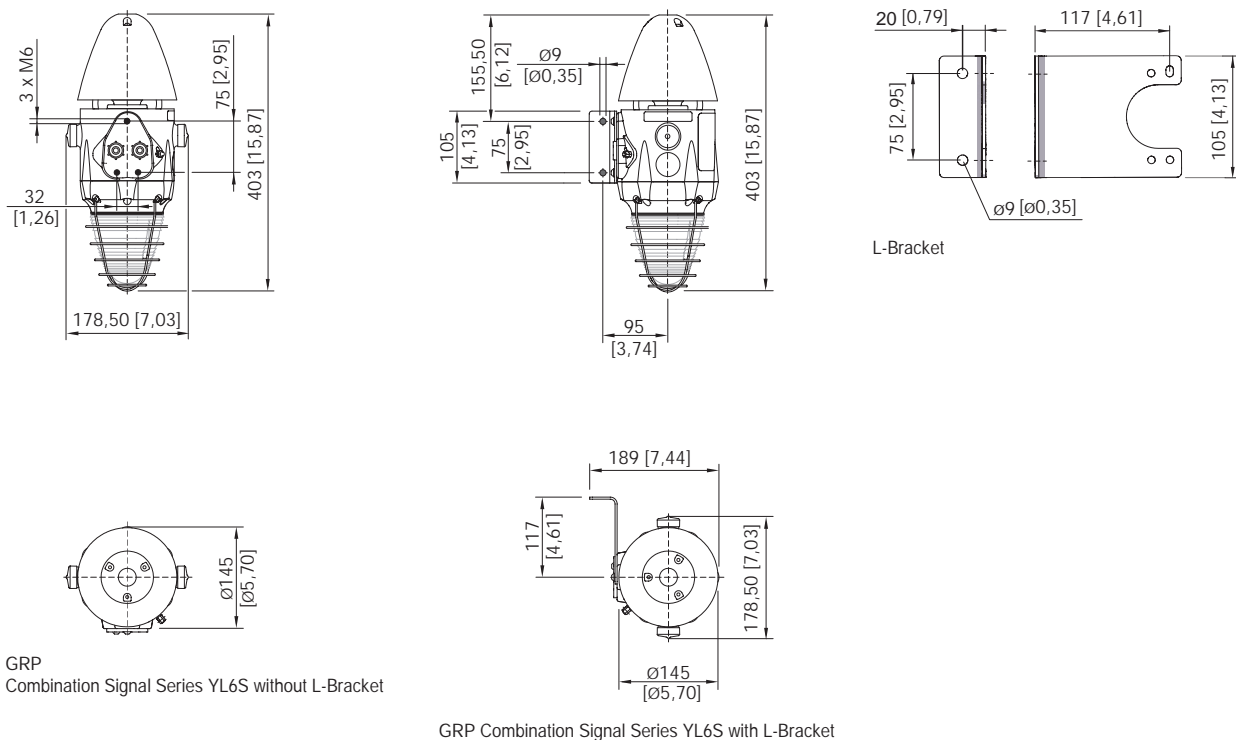
Combined Audible and Visual Signalling Devices

Series YL6S - Flameproof Version; max. 110 dB(A) @ 1 m / 5 J

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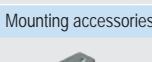


Technical Data		
Variant	YL6S/-...-EN	YL6S/-...-RU
Lighting Data		
Lamp	Xenon flash tubes	Xenon flash tubes
Flashbulb	5 J	5 J
Flash rate	1 Hz	1 Hz
Mechanical Data		
Degree of protection IP (IEC 60529)	IP66/IP67	IP66/IP67
Enclosure material	Polyester, Glass fibre reinforced	Polyester, Glass fibre reinforced
Material mounting parts	Stainless steel	Stainless steel
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 ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²
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 r-stahl.com . WebCode YL6SA		
A lens wire guard (VA) and bracket (VA) are supplied as standard.		

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


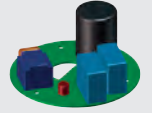




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Accessories

Figure	Description	Art. No.	PS	Weight kg
Cable glands made of metal				
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464 ▲	10	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428 ▲	10	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	10	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441 ▲	10	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	10	0.200
	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)	246561 ▲	10	0.280
Mounting accessories				
	Bracket assembly kit accessories made of stainless steel; long version	247371	Z3	0.280

Spare Parts

Figure	Description	Art. No.	PS	Weight kg
Flange				
	Flange assembly standard, amber	243407	E3	1.190
	Flange assembly standard, blue	243406	E3	1.190
	Flange assembly standard, clear	223578	E3	1.190
	Flange assembly standard, green	243405	E3	1.190
	Flange assembly standard, red	243408	E3	1.190
	Flange assembly standard, opal	243410	E3	1.190
	Flange assembly standard, yellow	243409	E3	1.190
PCB				
	PCB assembly 110 V AC 5J, for 5 Joule Xenon flashing beacons	223632	E3	0.118
	PCB assembly 230 V AC 5J, for 5 Joule Xenon flashing beacons	223580	E3	0.100
	PCB assembly 24 V DC 5J, for 5 Joule Xenon flashing beacons	223635	E3	0.080
PCB termination				
	PCB assembly termination, for 5 Joule Xenon beacon only	223579	E3	0.020
Xenon tube				
	Replacement xenon tube assembly	223636	E3	0.006

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- Ex d enclosure made from seawater-resistant aluminium
- Omnidirectional high output sounder 110 dB(A) @ 1 m
- 5 Joule xenon strobe
- 2 stage alarm, independently selectable 2nd stage
- Each with 32 selectable tones in accordance with international regulations
- Independent tone selection using a DIL switch for each pitch
- Aluminium enclosure with stainless steel fasteners
- Flash rate 1 per second
- IP66 rated as standard / NEMA 4X (for UL variants)
- Telephone initiate option available

WebCode **YL60A**



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	0	1	2	20	21	22
Ex interface						
Installation in		•	•		•	•

	NEC 505 Class I			NEC 506		
Zone	0	1	2	20	21	22
Ex interface		•	•		•	•
Installation in		•	•		•	•

	NEC 500					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•		
Installation in	•	•	•	•		

Selection Table							
Certificates		ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO), Korea (KTL), SIL (exida), Taiwan (ITRI)					
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Lens colour	Product Type	Art. No.	PS	Weight kg
115 V	-	200 mA	Orange	YL60/C/L50/A/EU	205267	80	6.000
		200 mA	Blue	YL60/C/L50/B/EU	205268	80	6.000
		200 mA	Green	YL60/C/L50/G/EU	205269	80	6.000
		200 mA	Opal	YL60/C/L50/O/EU	205270	80	6.000
		200 mA	Red	YL60/C/L50/R/EU	205271	80	6.000
		200 mA	Yellow	YL60/C/L50/Y/EU	205464	80	6.000
		230 V	-	100 mA	Orange	YL60/C/N50/A/EU	205273 ▲
100 mA	Blue			YL60/C/N50/B/EU	205277	80	6.000
100 mA	Clear			YL60/C/N50/C/EU	205279	80	6.000
100 mA	Opal			YL60/C/N50/O/EU	205281	80	6.000
100 mA	Red			YL60/C/N50/R/EU	205282	80	6.000
100 mA	Yellow			YL60/C/N50/Y/EU	205285	80	6.000
-	24 V			570 mA	Orange	YL60/C/D50/A/EU	205250 ▲
		570 mA	Blue	YL60/C/D50/B/EU	205252	80	6.000
		570 mA	Clear	YL60/C/D50/C/EU	205254	80	6.000
		570 mA	Green	YL60/C/D50/G/EU	205256	80	6.000
		570 mA	Red	YL60/C/D50/R/EU	205257 ▲	80	6.000
		570 mA	Yellow	YL60/C/D50/Y/EU	206950	80	6.000

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Selection Table

Certificates								ATEX (BAS), EAC (TehnoP), India (PESO), Russian Federation (TPB SER)	
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Lens colour	Product Type	Art. No.	PS	Weight kg		
115 V	-	200 mA	Orange	YL60/C/L50/A/RU	212390	80	6.000		
		200 mA	Red	YL60/C/L50/R/RU	205272	80	6.000		
230 V	-	100 mA	Orange	YL60/C/N50/A/RU	212391	80	6.000		
		100 mA	Red	YL60/C/N50/R/RU	212392	80	6.000		
-	24 V	570 mA	Orange	YL60/C/D50/A/RU	212389	80	6.000		
		570 mA	Blue	YL60/C/D50/B/RU	262033	80	6.000		
		570 mA	Red	YL60/C/D50/R/RU	205265	80	6.000		

Certificates								USA (UL)	
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Lens colour	Product Type	Art. No.	PS	Weight kg		
115 V	-	200 mA	Orange	YL60/B/L50/A/UL	205568	80	6.000		
		200 mA	Blue	YL60/B/L50/B/UL	205298	80	6.000		
		200 mA	Clear	YL60/B/L50/C/UL	224224	80	6.000		
		200 mA	Green	YL60/B/L50/G/UL	239987	80	6.000		
		200 mA	Red	YL60/B/L50/R/UL	205299	80	6.000		
		200 mA	Yellow	YL60/B/L50/Y/UL	211815	80	6.000		
230 V	-	100 mA	Orange	YL60/B/N50/A/UL	205301	80	6.000		
		100 mA	Clear	YL60/B/N50/C/UL	250450	80	6.000		
		100 mA	Red	YL60/B/N50/R/UL	212386	80	6.000		
-	24 V	570 mA	Orange	YL60/B/D50/A/UL	205287	80	6.000		
		570 mA	Blue	YL60/B/D50/B/UL	205289	80	6.000		
		570 mA	Clear	YL60/B/D50/C/UL	205291	80	6.000		
		570 mA	Red	YL60/B/D50/R/UL	205293	80	6.000		
		570 mA	Yellow	YL60/B/D50/Y/UL	205297	80	6.000		

Technical Data

Variant	YL60/J...J/EU	YL60/J...J/RU	YL60/J...J/UL
Explosion Protection			
IECEx gas explosion protection	Ex d IIB+H2 T6/T4 Gb		Ex d IIB+H2 T4 Gb
IECEx dust explosion protection	Ex tb IIIC T85 °C ... T135 °C Db		Ex tb IIIC T135 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex d IIB+H2 T6/T4 Gb		Ⓔ II 2 G Ex d IIB+H2 T4 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T85 °C ... T135 °C Db		Ⓔ II 2 D Ex tb IIIC T135 °C Db
EAC gas explosion protection		Ⓔ 1 Ex d IIB+H2 T4 Gb X Ⓔ 1 Ex d IIB+H2 T6 Gb X	
EAC dust explosion protection		Ⓔ Ex tb IIIC T135 °C Db X Ⓔ Ex tb IIIC T85 °C Db X	
Acoustic Data			
Sound pressure level	max. 110 dB(A) @ 1 m	max. 110 dB(A) @ 1 m	max. 110 dB(A) @ 1 m
Tone selection	Via DIL switch	Via DIL switch	Via DIL switch
Pitch	2	2	2
Ambient Conditions			
Ambient temperature	-20 °C ... +40 °C (IIB+H2 T6) (T85 °C) -20 °C ... +60 °C (T4) (T135 °C)	-20 °C ... +40 °C (IIB+H2 T6) (T85 °C) -20 °C ... +60 °C (T4) (T135 °C)	-20 °C ... +60 °C
Lighting Data			
Lamp	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes
Flashbulb	5 J	5 J	5 J

Combined Audible and Visual Signalling Devices

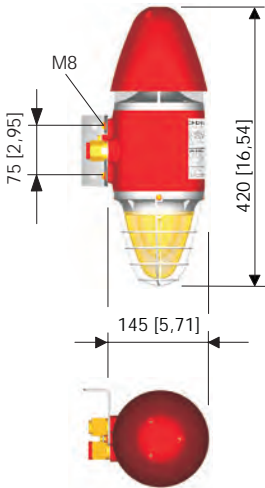
Series YL60 - Flameproof Version; max. 110 dB(A) @ 1 m / 5 J

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Technical Data			
Variant	YL60/./..././EU	YL60/./..././RU	YL60/./..././UL
Lighting Data			
Flash rate	1 Hz	1 Hz	1 Hz
Mechanical Data			
Degree of protection IP (IEC 60529)	IP66	IP66	IP66
Enclosure material	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant
Material mounting parts	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated
Enclosure colour	red normal	red normal	red normal
Trumpet material	ABS, flame retardant	ABS, flame retardant	ABS, flame retardant
Material dome	Polycarbonate	Polycarbonate	Polycarbonate
Material wire guard	Stainless steel	Stainless steel	Stainless steel
Connection terminals solid max.	2.5 mm ²	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²
Mounting / Installation			
Connection type	Screw terminal	Screw terminal	Screw terminal
Components			
Drilled holes	2 x M20	2 x M20	2 x M20
Cable glands	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	1 x dust cap 1 x M20 x 1.5	1 x M20 x 1.5 1 x dust cap	2x1/2"NPT adaptor M20x1/2"NPT
Stopping plug material	Brass	Brass	Brass

You can find more technical data online at r-stahl.com. WebCode YL60A

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



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Accessories				
Figure	Description	Art. No.	PS	Weight kg
Cable glands made of metal				
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464 ▲	10	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428 ▲	10	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	10	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441 ▲	10	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	10	0.200
	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)	246561 ▲	10	0.280
Cable glands				
	Ex e adapter for ATEX - 20 °C to +50/60 °C	264252	Z3	0.270
Mounting bracket				
	Stainless steel bracket fixing kit accessories	210794	Z3	0.400

Spare Parts				
Figure	Description	Art. No.	PS	Weight kg
Moulding-lens				
	clear	209402	E3	0.070
	red	209405	E3	0.070
	yellow	209406	E3	0.070
Emergency light flange				
	amber ATEX spare	209407	E3	1.080
	amber UL spare	209421	E3	1.080
	blue ATEX spare	209408	E3	1.080
	blue UL spare	209422	E3	1.080
	clear ATEX spare	209409	E3	1.080
	clear UL spare	209423	E3	1.080
	green ATEX spare	209410	E3	1.080
	green UL spare	209424	E3	1.080
	opal ATEX spare	209411	E3	1.080
	opal UL spare	209425	E3	1.080
	red ATEX spare	209412	E3	1.080
	red UL spare	209426	E3	1.080
	yellow ATEX spare	209413	E3	1.080
yellow UL spare	209427	E3	1.080	

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- Corrosion-resistant, GRP Ex d enclosure
- Max sound output 115 dB(A) @ 1 m
- 2 stage alarm, independently selectable 2nd stage
- Each with 32 selectable tones in accordance with international regulations
- Independent tone selection using a DIL switch for each pitch
- IP66 rated as standard
- Monitoring facility (DC voltages only)

WebCode **YA90A**



Yodalex range

Directional audible signal designed for use in hazardous or harsh environments.

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

	NEC 500					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface		•				
Installation in						

Selection Table						
Certificates ATEX (BAS), Brazil (ULB), China (CQST), IECEx (BAS), India (PESO), Korea (KGS)						
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg
115 V	-	0.08 A (T6)	YA90/C-L-EN-RN-ST-00-00-00	206770	80	4.500
230 V	-	0.045 A (T6)	YA90/C-N-EN-RN-ST-00-00-00	205214▲	80	4.500
-	24 V	0.3 A (T6)	YA90/C-D-EN-RN-ST-00-00-00	205209▲	80	4.500
Certificates Canada / USA (UL)						
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg
115 V	-	0.13 A (T6)	YA90/C-L-UL-RN-ST-00-00-00	205366	80	4.500
230 V	-	0.09 A (T6)	YA90/C-N-UL-RN-ST-00-00-00	212397	80	4.500
-	24 V	0.5 A (T6)	YA90/C-D-UL-RN-ST-00-00-00	205365	80	4.500
Certificates EAC (TehnoP), India (PESO), Russian Federation (TPB SER)						
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg
115 V	-	0.08 A (T6)	YA90/C-L-RU-RN-ST-00-00-00	212399	80	4.500
230 V	-	0.045 A (T6)	YA90/C-N-RU-RN-ST-00-00-00	205217	80	4.500
-	24 V	0.3 A (T6)	YA90/C-D-RU-RN-ST-00-00-00	206661	80	4.500

Variations in gas group, voltage and certification are available.
Tag labels can be added, please contact your local sales office for more details

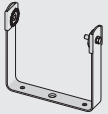
E5

Technical Data			
Variant	YA90/-.-EN	YA90/-.-RU	YA90/-.-UL
Explosion Protection			
IECEX gas explosion protection	Ex d IIC T6 Gb	Ex d IIC T6 Gb	
IECEX dust explosion protection	Ex tb IIIC T85 °C Db	Ex tb IIIC T85 °C Db	
ATEX gas explosion protection	Ⓜ II 2 G Ex d IIC T6 Gb	Ⓜ II 2 G Ex d IIC T6 Gb	
ATEX dust explosion protection	Ⓜ II 2 D Ex tb IIIC T85 °C Db	Ⓜ II 2 D Ex tb IIIC T85 °C Db	
EAC gas explosion protection		Ex d IIC T6 Gb X	
EAC dust explosion protection		Ex tb IIIC T85 °C Db X	
Electrical Data			
Tolerance	-10 - 10 %	-10 - 10 %	-10 - 10 %
Acoustic Data			
Sound pressure level	max. 115 dB(A) @ 1 m	max. 115 dB(A) @ 1 m	max. 115 dB(A) @ 1 m
Tone selection	Via DIL switch	Via DIL switch	Via DIL switch
Pitch	2	2	2
Ambient Conditions			
Ambient temperature	-60 °C ... +60 °C	-60 °C ... +60 °C	-60 °C ... +66 °C
Mechanical Data			
Degree of protection IP (IEC 60529)	IP66	IP66	IP66
Enclosure material	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced
Material mounting parts	1.4404 stainless steel	1.4404 stainless steel	1.4404 stainless steel
Trumpet material	ABS, flame retardant	ABS, flame retardant	ABS, flame retardant
Enclosure colour	Red (RAL 3001)	Red (RAL 3001)	Red (RAL 3001)
Mounting / Installation			
Connection type	Screw terminal	Screw terminal	Screw terminal
Components			
Drilled holes	2 x M20	2 x M20	2 x M20
Cable glands	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	1 x M20 x 1.5 1 x dust cap	1 x M20 x 1.5 1 x dust cap	2x1/2"NPT adaptor M20x1/2"NPT
Stopping plug material	Brass	Brass	Brass
You can find more technical data online at r-stahl.com . WebCode YA90A			

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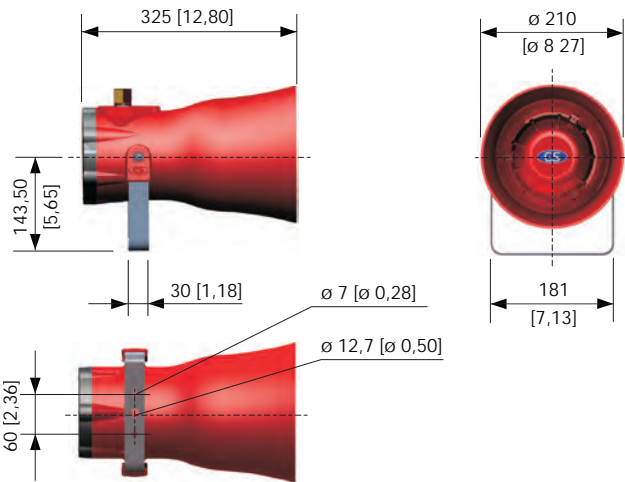
Accessories				
Figure	Description	Art. No.	PS	Weight kg
Cable glands made of metal				
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464 ▲	10	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428 ▲	10	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	10	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441 ▲	10	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	10	0.200
	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)	246561 ▲	10	0.280

Accessories

Figure	Description	Art. No.	PS	Weight kg
Mounting bracket				
	U-bracket 1.4404	224587	Z3	0.450

Stainless steel mounting bracket provided. Holes to suit M6, pitch 60 mm.

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



E5



- Corrosion-resistant, GRP Ex d enclosure
- Omnidirectional sounder max. 110 dB(A) @ 1m
- 3-stage alarm (DC) / 2-stage alarm, operate independently of each other
- Each with 32 selectable tones in accordance with international regulations
- Independent tone selection using a DIL switch for each pitch
- Volume control with 18 dB adjustment
- Blocking diode for line monitoring
- IP66 & IP67
- Lightweight (3.64 kg)

WebCode **YA6SA**



Yodalex Super Series

Product series YA6S is designed to provide an audible alarm which can be used to alert, warn or draw attention to machine malfunction/start up or any number of safety related issues. Corrosion resistance is a key feature of the device which is ideally suited for applications in the harshest of environments both onshore and offshore.

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

Selection Table

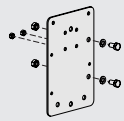



Pitch Certificates						
2 ATEX (BAS), IECEX (BAS)						
Rated operational current	Rated operational voltage AC	Rated operational voltage DC	Product Type	Art. No.	PS	Weight kg
0.04 A (T6)	230 V	-	YA6S/C-N-EN-SF-A-ST-00-00-00	225185	80	3.640
0.076 A (T6)	115 V	-	YA6S/C-L-EN-SF-A-ST-00-00-00	225184	80	3.640
Pitch Certificates						
3 ATEX (BAS), IECEX (BAS)						
Rated operational current	Rated operational voltage AC	Rated operational voltage DC	Product Type	Art. No.	PS	Weight kg
0.25 A (T6)	-	48 V	YA6S/C-F-EN-SF-A-ST-00-00-00	225183	80	3.640
0.28 A (T6)	-	24 V	YA6S/C-D-EN-SF-A-ST-00-00-00	225182	80	3.640
Pitch Certificates						
3 Ex 1 Ex d IIC/IIB Tx Gb Ex 1 Ex tb IIIC Txx°C Db ATEX (BAS), EAC (Sertium), IECEX (BAS), Russian Federation (TPB SER)						
Rated operational current	Rated operational voltage AC	Rated operational voltage DC	Product Type	Art. No.	PS	Weight kg
0.28 A (T6)	-	24 V	YA6S/C-D-RU-SF-A-ST-00-00-00	256351	80	3.640




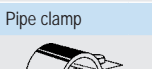
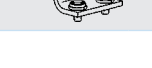
Additional gas groups and voltage variants are available; please use the selection table online at r-stahl.com. WebCode YA6SA
The tone table is available on the Internet at r-stahl.com.

E5

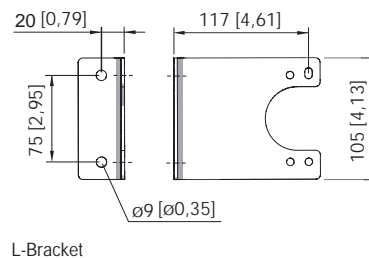
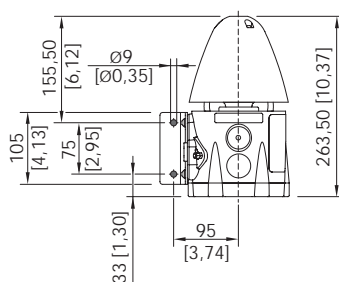
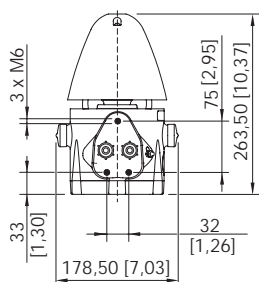
Technical Data		
Variant	Pitch 2	Pitch 3
Explosion Protection		
IECEx gas explosion protection	Ex d IIC T6/T5 Gb	Ex d IIC T6 Gb
IECEx dust explosion protection	Ex tb IIIC T77 °C ... T87 °C Db	Ex tb IIIC T75 °C Db
ATEX gas explosion protection	Ⓜ II 2 G Ex d IIC T6/T5 Gb	Ⓜ II 2 G Ex d IIC T6 Gb
ATEX dust explosion protection	Ⓜ II 2 D Ex tb IIIC T77 °C ... T87 °C Db	Ⓜ II 2 D Ex tb IIIC T75 °C Db
Electrical Data		
Line monitoring	Yes	Yes
Tolerance	-10 - 10 %	-10 - 10 %
Acoustic Data		
Sound pressure level	max. 110 dB(A) @ 1 m	max. 110 dB(A) @ 1 m
Tone selection	Via DIL switch	Via DIL switch
Volume control	18 dB (A) adjustment	18 dB (A) adjustment
Ambient Conditions		
Ambient temperature	-60 °C ... +60 °C (IIC T6) (T77 °C) -60 °C ... +70 °C (IIC T5) (T87 °C)	-60 °C ... +70 °C
Operating temperature	-40 °C ... +60 °C	-60 °C ... +70 °C
Mechanical Data		
Degree of protection IP (IEC 60529)	IP66/IP67	IP66/IP67
Enclosure material	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced
Material mounting parts	Stainless steel	Stainless steel
Trumpet material	ABS, flame retardant	ABS, flame retardant
Connection terminals solid max.	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²
Enclosure colour	Black	Black
Mounting / Installation		
Connection type	Screw terminal	Screw terminal
Components		
Drilled holes	2 x M20	2 x M20
Cable glands	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	2 x dust cap	2 x dust cap
You can find more technical data online at r-stahl.com . WebCode YA6SA		

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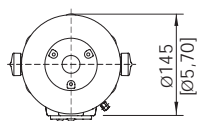
Accessories				
Figure	Description	Art. No.	PS	Weight kg
Fixed adaptor				
	Adaptor plate for use in combination with pipe clamps	256519	Z3	0.630
Cable glands made of metal				
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464 ▲	10	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428 ▲	10	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	10	0.240

Accessories				
Figure	Description	Art. No.	PS	Weight kg
Cable glands made of metal				
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441 ▲	10	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	10	0.200
	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)	246561 ▲	10	0.280
Mounting accessories				
	Bracket assembly kit accessories made of stainless steel; long version	247371	Z3	0.280
Pipe clamp				
	R 1 1/2"	120819	Z3	0.470
	R 1 1/4"	120812	Z3	0.500
	R 2"	120823	Z3	0.500

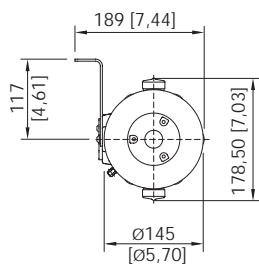
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



L-Bracket



GRP Audible Signal Series YA6S without L-Bracket



GRP Audible Signal Series YA6S with L-Bracket



- Ex d enclosure made from seawater-resistant aluminium
- Omnidirectional high output sounder 110 dB(A) @ 1 m
- 2 stage alarm, independently selectable 2nd stage
- Each with 32 selectable tones in accordance with international regulations
- Independent tone selection using a DIL switch for each pitch
- IP66 rated as standard / NEMA 4X (for UL variants)
- Telephone initiate option availab

WebCode **YA60A**



Yodalex range

Product Series YA60 is designed to provide a audible 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. Omnidirectional audible signal designed for use in hazardous or harsh environments.

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

	NEC 505 Class I			NEC 506		
	0	1	2	20	21	22
Zone						
Ex interface		•	•		•	•
Installation in		•	•		•	•

	NEC 500					
	Class I		Class II		Class III	
	1	2	1	2	1	2
Division						
Ex interface	•	•	•	•		
Installation in	•	•	•	•		

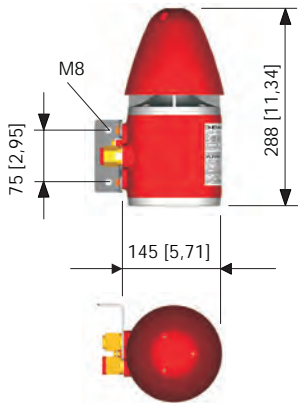
Selection Table						
Certificates ATEX (BAS), EAC (TehnoP), India (PESO), Russian Federation (TPB SER)						
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg
115 V	-	0.11 A (T6)	YA60/C/L/RU	212395	80	5.400
230 V	-	0.055 A (T6)	YA60/C/N/RU	212396	80	5.400
-	24 V	0.35 A (T6)	YA60/C/D/RU	205198	80	5.400
Certificates ATEX (BAS), IECEx (BAS), India (PESO), Korea (KTL), Taiwan (ITRI)						
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg
115 V	-	0.11 A (T6)	YA60/C/L/EU	205199	80	5.400
230 V	-	0.055 A (T6)	YA60/C/N/EU	205200▲	80	5.400
-	24 V	0.35 A (T6)	YA60/C/D/EU	205191▲	80	5.000
Certificates USA (UL)						
Rated operational voltage AC	Rated operational voltage DC	Rated operational current	Product Type	Art. No.	PS	Weight kg
115 V	-	0.11 A (T4)	YA60/B/L/UL	205204	80	5.400
230 V	-	0.055 A (T4)	YA60/B/N/UL	207054	80	5.400
-	24 V	0.35 A (T4)	YA60/B/D/UL	205202	80	5.400

Further variations in gas group, flash energy, voltage and lens colour are available, please use the selection table on the internet at r-stahl.com. WebCode YA60A



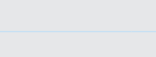




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Technical Data			
Variant	YA60 / C / . / EU	YA60 / C / . / RU	YA60 / B / . / UL
Explosion Protection			
IECEX dust explosion protection	Ex tb IIIC T85 °C ... T135 °C Db		Ex tb IIIC T135 °C Db
IECEX gas explosion protection	Ex d IIB+H2 T6/T4 Gb		Ex d IIB+H2 T4 Gb
ATEX gas explosion protection	Ⓔ II 2 G Ex d IIB+H2 T6/T4 Gb		Ⓔ II 2 G Ex d IIB+H2 T4 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T85 °C ... T135 °C Db		Ⓔ II 2 D Ex tb IIIC T135 °C Db
EAC gas explosion protection		Ex 1 Ex d IIB+H2 T4 Gb X Ex 1 Ex d IIB+H2 T6 Gb X	
EAC dust explosion protection		Ex tb IIIC T135 °C Db X Ex tb IIIC T85 °C Db X	
Ship approval	ABS		
Electrical Data			
Tolerance	-10 – 10 %	-10 – 10 %	-10 – 10 %
Acoustic Data			
Sound pressure level	max. 110 dB(A) @ 1 m	max. 110 dB(A) @ 1 m	max. 110 dB(A) @ 1 m
Tone selection	Via DIL switch	Via DIL switch	Via DIL switch
Pitch	2	2	2
Ambient Conditions			
Ambient temperature	-20 °C ... +40 °C (IIB+H2 T6) (T85 °C) -20 °C ... +60 °C (T4) (T135 °C)	-20 °C ... +40 °C (IIB+H2 T6) (T85 °C) -20 °C ... +60 °C (T4) (T135 °C)	-20 °C ... +60 °C
Mechanical Data			
Degree of protection IP (IEC 60529)	IP66	IP66	IP66
Enclosure material	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant
Material mounting parts	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated
Trumpet material	ABS, flame retardant	ABS, flame retardant	ABS, flame retardant
Connection terminals solid max.	2.5 mm ²	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²
Enclosure colour	red normal	red normal	red normal
Components			
Drilled holes	2 x M20	2 x M20	2 x M20
Cable glands	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	1 x M20 x 1.5 1 x dust cap	1 x M20 x 1.5 1 x dust cap	2x1/2"NPT adaptor M20x1/2"NPT
Stopping plug material	Brass	Brass	Brass
You can find more technical data online at r-stahl.com . WebCode YA60A			
Mounting bracket supplied as standard.			

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



Accessories

Figure	Description	Art. No.	PS	Weight kg
Cable glands made of metal				
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464 ▲	10	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428 ▲	10	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	10	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441 ▲	10	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	10	0.200
	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)	246561 ▲	10	0.280
Mounting bracket				
	Stainless steel bracket fixing kit accessories	210794	Z3	0.400

E5



- Ex d enclosure made from seawater-resistant aluminium
- Max. sound output 100 dB(A) @ 1 m
- Single stage alarm
- 32 sound tones available meeting international regulations
- Low profile (28 mm) light weight aluminium enclosure
- 3 metre (118") 2 core pre wired cable fitted and prepared ready for installation
- Panel sealing gasket and fixings provided
- Low current consumption
- High performance red paint finish as standard
- IP66 rated as standard, NEMA 4X (for UL variants)
- Lightweight

WebCode **YA11A**



Yodalex range

Panel mount audible signal designed for use in hazardous or harsh environments

	ATEX / IECEx						NEC 500					
	0	1	2	20	21	22	Class I		Class II		Class III	
Zone							1	2	1	2	1	2
Ex interface								•		•	•	•
Installation in			•			•		•		•	•	•

Selection Table

Tone selection	According to the order			
Certificates	ATEX (BAS), Canada / USA (UL), IECEx (BAS)			
Rated operational voltage DC	Product Type	Art. No.	PS	Weight kg
24 V	YA11/1-D...-RN	211439	80	1.600

The customer must specify the desired tone when ordering.
 The tone cannot be changed by the customer.
 32 tones are available; see order number addition below, e.g. if tone 18 is desired, please use the order number YA11/1-D-18-RN.
 The tone table can be found online at r-stahl.com.

Technical Data

Explosion Protection	
IECEx gas explosion protection	Ex nA IIC T4 Gc
IECEx dust explosion protection	Ex tc IIIC T90 °C Dc
ATEX gas explosion protection	Ⓜ II 3 G Ex nA IIC T4 Gc
ATEX dust explosion protection	Ⓜ II 3 D Ex tc IIIC T90 °C Dc
Acoustic Data	
Sound pressure level	max. 100 dB(A) @ 1 m
Pitch	1
Ambient Conditions	
Ambient temperature	-40 °C ... +70 °C
Mechanical Data	
Enclosure material	Aluminium / ABS
Enclosure colour	Red (RAL 3001)
Material mounting parts	Stainless steel
Conductor length	3 m

E5

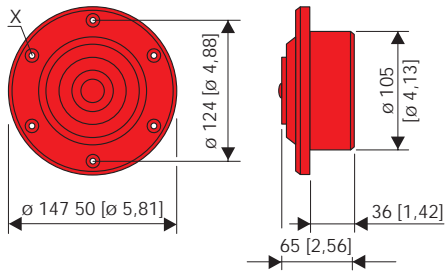
Technical Data

Mounting / Installation

Connection type ÖLFLEX150 QUATTRO/18AWG 2x1mm²

You can find more technical data online at r-stahl.com. WebCode YA11A

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



Tone Table

Tone no.	Version	Frequency	Repetition rate (sec)	Special application
Tone 01	Alternate two-tone	800-1000	0.5	Fire alarms - Level crossing
Tone 02	Alternate two-tone	2500-3100	0.5	Security alarms
Tone 03	Alternate fast two-tone	800-1000	0.25	Increased urgency - Level crossing
Tone 04	Alternate fast two-tone	2500-3100	0.25	Security deterrent
Tone 05	Alternate two-tone	440-554	0.4/0.1	AFNOR, France
Tone 06	Alternate two-tone	430-470	1.0	
Tone 07	Alternate fast two-tone	800-1000	0.13	
Tone 08	Alternate fast two-tone	2500-3200	0.07	
Tone 09	Alternate two-tone	440-554	2.0	Turn out, Sweden
Tone 10	Continuous tone	700		All-clear, Sweden
Tone 11	Continuous tone	1000		
Tone 12	Continuous tone	1000		
Tone 13	Continuous tone	2300		
Tone 14	Continuous tone	440		
Tone 15	Interrupted tone	1000	2.0	
Tone 16	Interrupted tone	420	1.25	AS2220, Australia
Tone 17	Interrupted tone	1000	0.5	
Tone 18	Interrupted tone	2500	0.25	
Tone 19	Interrupted tone	2500	0.5	
Tone 20	Interrupted tone	700	6/12	Pre-vital message, Sweden
Tone 21	Interrupted tone	1000	1.0	
Tone 22	Interrupted tone	700	4.0	Air-raid alarm, Sweden
Tone 23	Interrupted tone	700	0.25	Local warning, Sweden
Tone 24	Interrupted tone	720	0.7/0.3	Industrial alarm, Germany
Tone 25	Interrupted, fast, rising volume	1400	0.25	
Tone 26	Fast siren	250-1200	0.085	
Tone 27	Rising constant, fall	1000	10/40/10	Industrial alarm, Germany
Tone 28	ISO 8201 Evacuation	800-1000	As standard	International evacuation alarm
Tone 29	Fast whoop	500-1000	0.15	
Tone 30	Slow whoop	500-1200	4.5	Evacuation, The Netherlands
Tone 31	Reverse sweep	1200-500	1.0	Evacuation, Germany
Tone 32	Siren	500-1200	3.0	



- Fixed signal tone
- Volume max. 105 dB(A) @ 1 m
- Installation by means of angle mounting
- AC and DC versions
- Signal horn Series 8491/1: with trumpet and connection cable
- Signal Horn Series 8491/2: compact design with connection chamber and cable gland

WebCode **8491A**



The signal horns Series 8491 are audio signalling devices designed to warn, call and indicate in hazardous areas.

They are made of a robust PC/ABS blend.

Installation is realised by means of angle mounting.

The versions of Series 8491/1 have been developed for use in areas with an explosive gas atmosphere.

They have a trumpet for optimum sound concentration as well as a connection cable.

The compact signal horns Series 8491/2 have a connection chamber and can be used indoors and outdoors in areas with explosive gas atmosphere.

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

Selection Table							
Signal horn with trumpet							
Product variant	Rated operational voltage AC	Rated operational voltage DC	Safety nominal value	Product Type	Art. No.	PS	Weight kg
24 V	-		630 mA	8491/11-024-RU	247037	17	1.450
			630 mA	8491/11-024	145276 ▲	17	1.450
42 – 48 V	-		315 mA	8491/11-042-RU	247038	17	1.450
			315 mA	8491/11-042	145278 ▲	17	1.450
115 V	-		315 mA	8491/11-115-RU	247039	17	1.450
			315 mA	8491/11-115	145279	17	1.450
230 V	-		125 mA	8491/11-230-RU	247040	17	1.450
			125 mA	8491/11-230	145280 ▲	17	1.450
-	24 V		500 mA	8491/15-024-RU	247036	17	1.450
			500 mA	8491/15-024	145275 ▲	17	1.450
Signal horn, compact design with connection chamber							
Product variant	Rated operational voltage AC	Rated operational voltage DC	Safety nominal value	Product Type	Art. No.	PS	Weight kg
24 V	-		630 mA	8491/21-024-RU	247042	17	1.500
			630 mA	8491/21-024	145282	17	1.500
42 – 48 V	-		315 mA	8491/21-042-RU	247043	17	1.500
			315 mA	8491/21-042	145283 ▲	17	1.500

E5

Selection Table

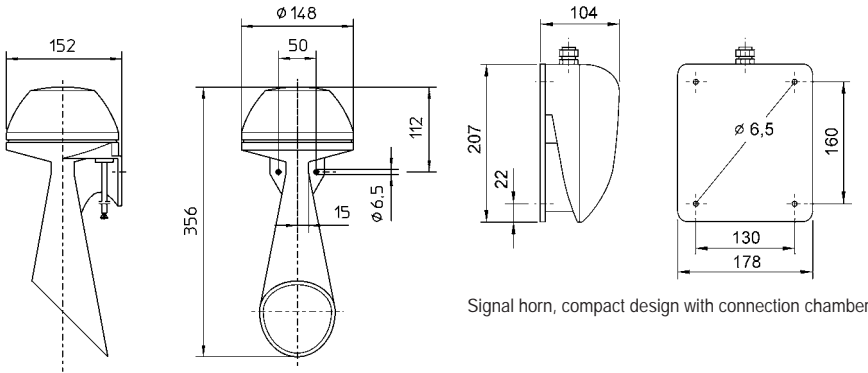
Signal horn, compact design with connection chamber							
Product variant	Rated operational voltage AC	Rated operational voltage DC	Safety nominal value	Product Type	Art. No.	PS	Weight kg
115 V	-	-	315 mA	8491/21-115-RU	247044	17	1.500
			315 mA	8491/21-115	145284	17	1.500
230 V	-	-	125 mA	8491/21-230-RU	247035	17	1.500
			125 mA	8491/21-230	145285 ▲	17	1.500
-	24 V	-	500 mA	8491/25-024-RU	247041	17	1.500
			500 mA	8491/25-024	145281 ▲	17	1.500

Technical Data

Variant	8491/1	8491/2
Explosion Protection		
ATEX gas explosion protection	⊕ II 2 G Ex mb IIC T5 Gb	⊕ II 2 G Ex e mb IIC T5 Gb
ATEX dust explosion protection		⊕ II 2 D Ex tb IIIC T70 °C Db
EAC gas explosion protection	⊕ 1 Ex mb IIC T5 Gb X, ⊕ 1 Ex e mb IIC T5 Gb X	⊕ 1 Ex mb IIC T5 Gb X, ⊕ 1 Ex e mb IIC T5 Gb X
EAC dust explosion protection	⊕ Ex tb IIIC T70°C Db	⊕ Ex tb IIIC T70°C Db
Certificates	ATEX (BVS)	ATEX (BVS)
Acoustic Data		
Sound pressure level	max. 105 dB(A) @ 1 m	max. 105 dB(A) @ 1 m
Ambient Conditions		
Ambient temperature	-40 °C ... +50 °C	-40 °C ... +50 °C
Mechanical Data		
Degree of protection IP (IEC 60529)	IP55	IP65
Enclosure material	PC/ABS	PC/ABS
Trumpet material	PC/ABS	
Enclosure colour	Black	Black
Connection terminals solid max.		2.5 mm ²
Conductor length	3 m	
Mounting / Installation		
Connection type	LAPPTHERM 145, 2 x 0.75 mm ²	Screw terminal
Components		
Drilled holes		1 x M16
Cable glands		1 x M16 Ø 6.5 – 9.5 mm

You can find more technical data online at r-stahl.com. WebCode 8491A

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



Signal horn with trumpet

Signal horn, compact design with connection chamber



- Max. sound pressure level 121 dB(A)
- Extreme temperature range -50 ... +60 °C
- Degree of protection IP66 & 67
- Corrosion-resistant enclosure made from antistatic polyamide
- Stainless steel fixings
- Ex e connection chamber
- Spring clamp terminals

WebCode **8494A**



25 or 15 Watt loudspeakers designed for use in hazardous areas and harsh environments. Series 8494 is constructed using antistatic polyamid which provides a light weight, robust, corrosion resistant enclosure. Options include wattage, impedance or a transformer variant with tapings at 25; 15; 6.5; 5; 2.5; 1.5 W to provide maxium flexibility for users.

The short flare version provides wide area sound dispersal in a compact enclosure. The long flare version gives increased sound pressure levels and audibility.

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

	NEC 505			NEC 506		
	Class I					
Zone	0	1	2	20	21	22
Ex interface		•	•		•	•
Installation in		•	•		•	•

	NEC 500					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•		
Installation in	•	•	•	•		

Selection Table


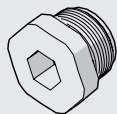
Flare size		Long flare max. 118 dB(A) @ 1 m					
Figure	Impedance	Product Type			Art. No.	PS	Weight kg
	8 Ω	8494/C-L-EN-ST-12-00			242310	80	2.800
	20 Ω	8494/C-L-EN-ST-13-00			242311	80	2.800
	-	8494/C-L-EN-ST-14-00			242312	80	2.800
Flare size		Short flare max. 115 dB(A) @ 1 m					
Figure	Impedance	Product Type			Art. No.	PS	Weight kg
	8 Ω	8494/C-S-EN-ST-12-00			242300	80	2.200
	20 Ω	8494/C-S-EN-ST-13-00			242301	80	2.200
	-	8494/C-S-EN-ST-14-00			242302	80	2.200

Technical Data

Explosion Protection	
IECEx gas explosion protection	Ex de mb IIC T4 Gb
IECEx dust explosion protection	Ex tb IIIIC T105 °C Db
ATEX gas explosion protection	Ⓜ II 2 G Ex de mb IIC T4 Gb

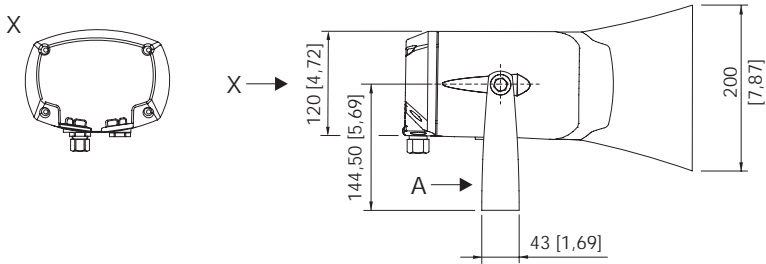
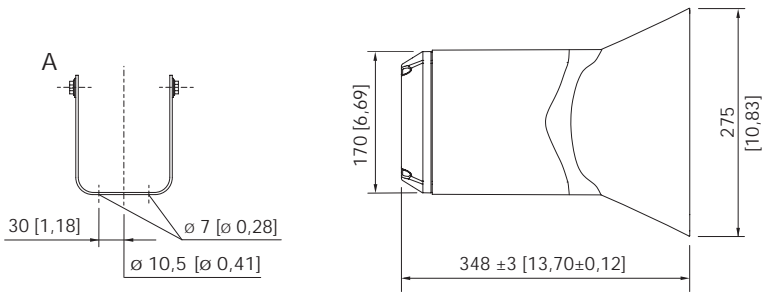
E5

Technical Data	
Explosion Protection	
ATEX dust explosion protection	II 2 D Ex tb IIIC T105 °C Db
EAC gas explosion protection	Ex 1 Ex d e mb IIB+H2 T4 Gb X Ex 1 Ex d e mb IIC T4 Gb X
EAC dust explosion protection	Ex 1 Ex tb IIIC T105 °C Db X
Certificates	ATEX (PRE), EAC (Sertium), IECEx (PRE)
Electrical Data	
Power	25 W
Frequency range	450 – 6000 Hz
Ambient Conditions	
Ambient temperature	-50 °C ... +60 °C
Mechanical Data	
Degree of protection IP (IEC 60529)	IP66/IP67
Enclosure material	Polyamide, antistatic
Enclosure colour	Black
Material mounting parts	Polyamide, antistatic
Trumpet material	Polyamide, antistatic
Connection terminals solid max.	4 mm ²
Connection terminals finely-stranded max.	4 mm ²
Mounting / Installation	
Connection type	Spring clamp terminal
Components	
Drilled holes	2 x M20
Cable glands	Can be ordered as accessories
Stopping plug	2 x dust cap
You can find more technical data online at r-stahl.com . WebCode 8494A	

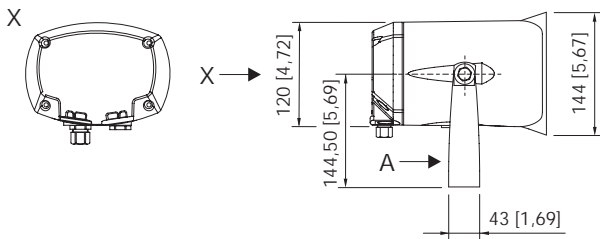
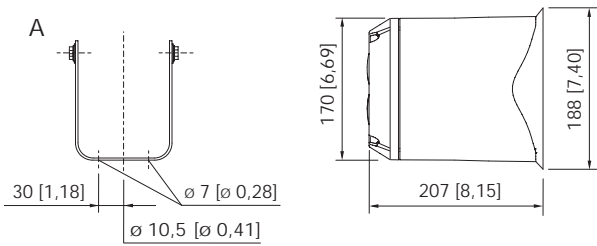
Accessories				
Figure	Description	Art. No.	PS	Weight kg
Cable gland				
	8161/7-M20-1304 4 ... 13 mm ² , 50 pieces (delivery lot*)	239156 ▲	10	0.013
Stopping plug				
	8290/3-M20, 100 pieces	143543 ▲	18	0.500
	8290/3-M20, 1 piece	143522 ▲	18	0.005
Bracket made of stainless steel available on request. *) Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the delivery lot.				

E5

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



Hazardous Area Loudspeaker - Long Flare
Bracket (A) supplied as standard



Hazardous Area Loudspeaker - Short Flare
Bracket (A) supplied as standard

E5

Variations Type code: please fill in fields		Order Number
		8494 / - - - - -
Gas group		
IIB + H	B	
IIC	C	
Flare		
short	S	
long	L	
Certification		
ATEX / IECEx / NEC / CEC 505	EN	
Company specification		
standard	ST	
Options		
15 W 8 Ω	10	
15 W 20 Ω	11	
25 W 8 Ω	12	
25 W 20 Ω	13	
25 W 100 V line transformer	14	
15 W 100 V line transformer	15	
6.5 W 100 V line transformer	16	
25 W 70 V line transformer	17	
15 W 70 V line transformer	18	
6.5 W 70 V line transformer	19	
Local certification		
standard	00	
EAC	01	

E5



- Corrosion-resistant, GRP Ex d enclosure
- 5 Joule xenon flashing beacon
- Flash rate 1 Hz
- Extreme temperature range
- Light enhancing fresnel lens
- Blocking diode for line monitoring
- Stainless steel lens guard and bracket supplied as standard
- IP66 and IP67
- Lightweight (3.04 kg)

WebCode **FL6SA**



Yodalex Super Series. Product Series FL6S is designed to provide a visual alarm which can be used to alert, warn or draw attention to machine malfunction/start up or any number of safety related issues. Corrosion resistance is a key feature of the device which is ideally suited for applications in the harshest of environments both onshore and offshore.

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

Selection Table

Rated operational voltage AC		115 V				
Lens colour	Product Type	Art. No.	PS	Weight	kg	
Clear	FL6S/C-L-050-C-EN-SF-A-ST-00-00-00	225162	80	3.040		
Red	FL6S/C-L-050-R-EN-SF-A-ST-00-00-00	225165	80	3.040		
Yellow	FL6S/C-L-050-Y-EN-SF-A-ST-00-00-00	225164	80	3.040		
Rated operational voltage AC		230 V				
Lens colour	Product Type	Art. No.	PS	Weight	kg	
Clear	FL6S/C-N-050-C-EN-SF-A-ST-00-00-00	225170	80	3.040		
Green	FL6S/C-N-050-G-EN-SF-A-ST-00-00-00	225176	80	3.040		
Orange	FL6S/C-N-050-A-EN-SF-A-ST-00-00-00	225174	80	3.040		
Red	FL6S/C-N-050-R-EN-SF-A-ST-00-00-00	225173	80	3.040		
Yellow	FL6S/C-N-050-Y-EN-SF-A-ST-00-00-00	225172	80	3.040		
Rated operational voltage DC		24 V				
Lens colour	Product Type	Art. No.	PS	Weight	kg	
Blue	FL6S/C-D-050-B-EN-SF-A-ST-00-00-00	225151	80	3.040		
Clear	FL6S/C-D-050-C-EN-SF-A-ST-00-00-00	225146	80	3.040		
Green	FL6S/C-D-050-G-EN-SF-A-ST-00-00-00	225152	80	3.040		
Magenta	FL6S/C-D-050-M-EN-SF-A-ST-00-00-00	225153	80	3.040		
Opal	FL6S/C-D-050-O-EN-SF-A-ST-00-00-00	225147	80	3.040		
Orange	FL6S/C-D-050-A-EN-SF-A-ST-00-00-00	225150	80	3.040		

E5

Selection Table				
Rated operational voltage DC	24 V			
Lens colour	Product Type	Art. No.	PS	Weight kg
Red	FL6S/C-D-050-R-EN-SF-A-ST-00-00-00	225149	80	3.040
Yellow	FL6S/C-D-050-Y-EN-SF-A-ST-00-00-00	225148	80	3.040
Rated operational voltage DC	48 V			
Lens colour	Product Type	Art. No.	PS	Weight kg
Clear	FL6S/C-F-050-C-EN-SF-A-ST-00-00-00	225154	80	3.040
Orange	FL6S/C-F-050-A-EN-SF-A-ST-00-00-00	225158	80	3.040
Red	FL6S/C-F-050-R-EN-SF-A-ST-00-00-00	225157	80	3.040

Further variations in gas group, flash energy, voltage and lens colour are available, please use the selection table on the internet at r-stahl.com. WebCode FL6SA

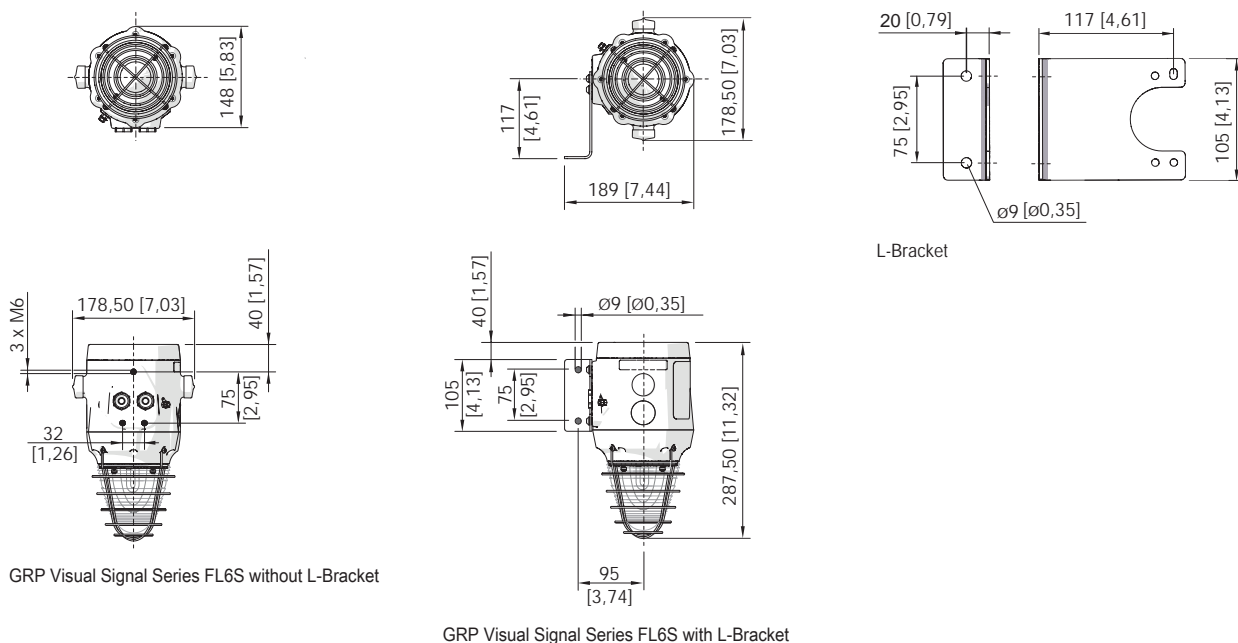
Technical Data				
Variant	115 V	230 V	24 V	48 V
Explosion Protection				
IECEx gas explosion protection	Ex d IIC T5/T4 Gb	Ex d IIC T6/T5/T4 Gb	Ex d IIC T6/T5/T4 Gb	Ex d IIC T6/T5/T4 Gb
IECEx dust explosion protection	Ex tb IIIC T83 °C ... T113 °C Db	Ex tb IIIC T75 °C ... T90 °C ... T105 °C Db	Ex tb IIIC T73 °C ... T88 °C ... T103 °C Db	Ex tb IIIC T73 °C ... T88 °C ... T103 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex d IIC T5/T4 Gb	Ⓔ II 2 G Ex d IIC T6/T5/T6 Gb	Ⓔ II 2 G Ex d IIC T6/T5/T6 Gb	Ⓔ II 2 G Ex d IIC T6/T5/T6 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T83 °C ... T113 °C Db	Ⓔ II 2 D Ex tb IIIC T75 °C ... T90 °C ... T105 °C Db	Ⓔ II 2 D Ex tb IIIC T73 °C ... T88 °C ... T103 °C Db	Ⓔ II 2 D Ex tb IIIC T73 °C ... T88 °C ... T103 °C Db
Certificates	ATEX (BAS), IECEx (BAS)	ATEX (BAS), IECEx (BAS)	ATEX (BAS), IECEx (BAS)	ATEX (BAS), IECEx (BAS)
Electrical Data				
Line monitoring	Yes	Yes	Yes	Yes
Tolerance	-10 - 10 %	-10 - 10 %	-10 - 10 %	-10 - 10 %
Ambient Conditions				
Ambient temperature	-60 °C ... +40 °C (IIC T5) (T83 °C) -60 °C ... +55 °C (IIC T4) (T113 °C)	-60 °C ... +40 °C (IIC T6) (T75 °C) -60 °C ... +55 °C (IIC T5) (T90 °C) -60 °C ... +70 °C (T4) (T105 °C)	-60 °C ... +40 °C (IIC T6) (T73 °C) -60 °C ... +55 °C (IIC T5) (T88 °C) -60 °C ... +70 °C (T4) (T103 °C)	-60 °C ... +40 °C (IIC T6) (T73 °C) -60 °C ... +55 °C (IIC T5) (T88 °C) -60 °C ... +70 °C (T4) (T103 °C)
Lighting Data				
Lamp	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes
Flashbulb	5 J	5 J	5 J	5 J
Flash rate	1 Hz	1 Hz	1 Hz	1 Hz
Mechanical Data				
Degree of protection IP (IEC 60529)	IP66/IP67	IP66/IP67	IP66/IP67	IP66/IP67
Protection class	II / Equipotential bonding connection	II / Equipotential bonding connection	II / Equipotential bonding connection	II / Equipotential bonding connection
Enclosure material	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced
Sealing material	Red silicone 70	Red silicone 70	Red silicone 70	Red silicone 70
Material mounting parts	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Material dome	Polycarbonate, prismatic	Polycarbonate, prismatic	Polycarbonate, prismatic	Polycarbonate, prismatic
Material wire guard	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Connection terminals solid max.	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Enclosure colour	Black	Black	Black	Black
Seal	O-ring seal	O-ring seal	O-ring seal	O-ring seal
Components				
Drilled holes	2 x M20	2 x M20	2 x M20	2 x M20
Cable glands	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories

E5

Technical Data				
Variant	115 V	230 V	24 V	48 V
Components				
Stopping plug	2 x dust cap	2 x dust cap	2 x dust cap	2 x dust cap

You can find more technical data online at r-stahl.com. WebCode FL6SA


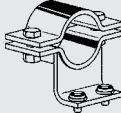
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations







Accessories

Figure	Description	Art. No.	PS	Weight kg
Fixed adaptor				
	Adaptor plate for use in combination with pipe clamps	256519	Z3	0.630
Cable glands made of metal				
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464 ▲	10	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428 ▲	10	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	10	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441 ▲	10	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	10	0.200
	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)	246561 ▲	10	0.280

Accessories

Figure	Description	Art. No.	PS	Weight kg
Mounting accessories				
	Bracket assembly kit accessories made of stainless steel; long version	247371	Z3	0.280
Pipe clamp				
	R 1 1/2"	120819	Z3	0.470
	R 1 1/4"	120812	Z3	0.500
	R 2"	120823	Z3	0.500

Spare Parts

Figure	Description	Art. No.	PS	Weight kg
PCB termination				
	PCB assembly termination, for 5 Joule Xenon beacon only	223579	E3	0.020
Flange				
	Flange assembly standard, amber	243407	E3	1.190
	Flange assembly standard, blue	243406	E3	1.190
	Flange assembly standard, clear	223578	E3	1.190
	Flange assembly standard, green	243405	E3	1.190
	Flange assembly standard, red	243408	E3	1.190
	Flange assembly standard, opal	243410	E3	1.190
	Flange assembly standard, yellow	243409	E3	1.190
PCB				
	PCB assembly 110 V AC 5J, for 5 Joule Xenon flashing beacons	223632	E3	0.118
	PCB assembly 230 V AC 5J, for 5 Joule Xenon flashing beacons	223580	E3	0.100
	PCB assembly 24 V DC 5J, for 5 Joule Xenon flashing beacons	223635	E3	0.080
Xenon tube				
	Replacement xenon tube assembly	223636	E3	0.006

E5



- Corrosion-resistant, GRP Ex d enclosure
- Suitable for offshore / onshore & harsh environments
- LED continuous beacon
- Light enhancing lens design
- Extreme temperature range -60 ... +70 °C
- Flexible mounting options
- Stainless steel fixings and guard
- Degree of protection IP66 & IP67
- Lightweight

WebCode **FX15A**



Yodalex range

Continuously illuminated visual signal, GRP enclosure designed for use in hazardous and harsh environments.

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

Selection Table

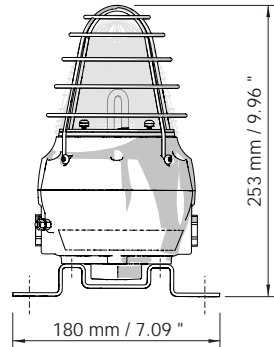
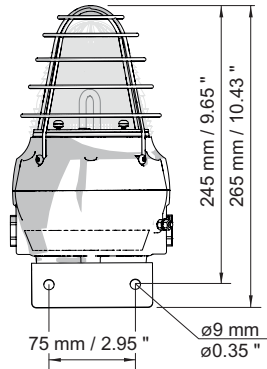
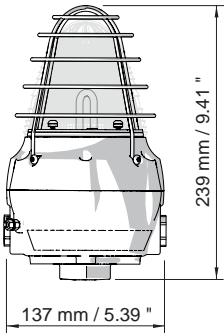
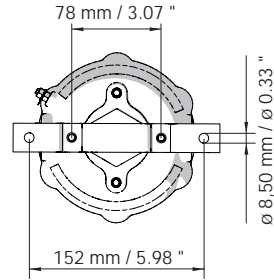
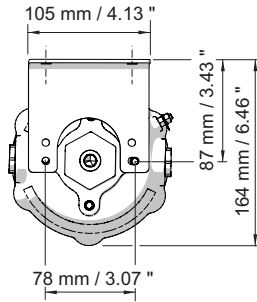
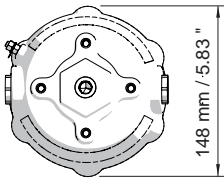
Lamp	Rated operational voltage AC	LED	100 – 254 V			
Lens colour	Product Type	Art. No.	PS	Weight	kg	
Blue	FX15/C-P-060-B-EN-SF-A-ST-00-00-00	247069	80	2.250		
Clear	FX15/C-P-060-C-EN-SF-A-ST-00-00-00	247085	80	2.250		
Green	FX15/C-P-060-G-EN-SF-A-ST-00-00-00	247061	80	2.250		
Orange	FX15/C-P-060-A-EN-SF-A-ST-00-00-00	247077	80	2.250		
Red	FX15/C-P-060-R-EN-SF-A-ST-00-00-00	247093	80	2.250		
Lamp	Rated operational voltage DC	LED	24 V			
Lens colour	Product Type	Art. No.	PS	Weight	kg	
Blue	FX15/C-D-060-B-EN-SF-A-ST-00-00-00	247070	80	2.230		
Clear	FX15/C-D-060-C-EN-SF-A-ST-00-00-00	247086	80	2.230		
Green	FX15/C-D-060-G-EN-SF-A-ST-00-00-00	247062	80	2.230		
Magenta	FX15/C-D-060-M-EN-SF-A-ST-00-00-00	251767	80	2.230		
Orange	FX15/C-D-060-A-EN-SF-A-ST-00-00-00	247078	80	2.230		
Red	FX15/C-D-060-R-EN-SF-A-ST-00-00-00	247094	80	2.230		

Technical Data

Explosion Protection	
IECEx gas explosion protection	Ex d IIC T6 Gb
IECEx dust explosion protection	Ex tb IIIC T85 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex d IIC T6 Gb

Technical Data	
Explosion Protection	
ATEX dust explosion protection	II 2 D Ex tb IIIC T85 °C Db
Certificates	ATEX (BAS), Brazil (ULB), China (CQST), IECEx (BAS), India (PESO)
Electrical Data	
Tolerance	-10 – 10 %
Ambient Conditions	
Ambient temperature	-60 °C ... +70 °C
Operating temperature	-60 °C ... +50 °C
Mechanical Data	
Degree of protection IP (IEC 60529)	IP66/IP67
Enclosure material	Polyester (GRP), Glass fibre reinforced
Enclosure colour	Black
Seal	O-ring seal
Sealing material	Red silicone 70
Material mounting parts	Stainless steel
Material dome	Polycarbonate, prismatic
Material wire guard	Stainless steel
Connection terminals solid max.	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²
Mounting / Installation	
Connection type	Screw terminal
Components	
Drilled holes	3 x M20
Cable glands	Can be ordered as accessories
Stopping plug	3 x dust cap
You can find more technical data online at r-stahl.com . WebCode FX15A	
FX15 Beacons are supplied without a bracket. These must be ordered separately (see accessories table).	
Accessories and spare parts see page 536	

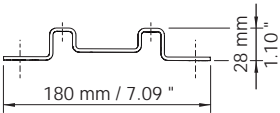
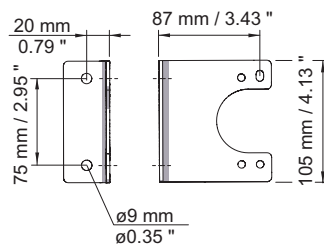
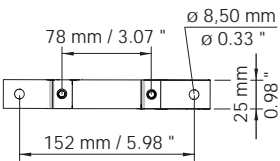
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



FX15 Beacon

FX15 Beacon with L-bracket

FX15 Beacon with backstrap bracket



L-shaped bracket

Backstrap bracket

E5



- Corrosion-resistant, GRP Ex d enclosure
- Suitable for offshore / onshore & harsh environments
- 5 Joule xenon flashing beacon
- Light enhancing lens design
- Extreme temperature range -55 ... +70 °C / -60 ... +70 °C
- Flexible mounting options
- Stainless steel fixings and guard
- Degree of protection IP66 & IP67
- Lightweight

WebCode **FX15B**



Yodalex range

Flashing visual signal, GRP enclosure designed for use in hazardous and harsh environments.

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

Selection Table						
Certificates	ATEX (BAS), Brazil (ULB), China (CQST), IECEx (BAS), India (PESO)					
Rated operational voltage AC	115 V					
Lens colour	Product Type			Art. No.	PS	Weight kg
Clear	FX15/C-L-050-C-EN-SF-A-ST-00-00-00			217983	80	2.250
Green	FX15/C-L-050-G-EN-SF-A-ST-00-00-00			217993	80	2.250
Orange	FX15/C-L-050-A-EN-SF-A-ST-00-00-00			217981	80	2.250
Red	FX15/C-L-050-R-EN-SF-A-ST-00-00-00			217973	80	2.250
Certificates	ATEX (BAS), Brazil (ULB), China (CQST), IECEx (BAS), India (PESO)					
Rated operational voltage AC	230 V					
Lens colour	Product Type			Art. No.	PS	Weight kg
Blue	FX15/C-N-050-B-EN-SF-A-ST-00-00-00			218002	80	2.250
Clear	FX15/C-N-050-C-EN-SF-A-ST-00-00-00			217995	80	2.250
Green	FX15/C-N-050-G-EN-SF-A-ST-00-00-00			218003	80	2.250
Orange	FX15/C-N-050-A-EN-SF-A-ST-00-00-00			217982	80	2.250
Red	FX15/C-N-050-R-EN-SF-A-ST-00-00-00			217974	80	2.250
Yellow	FX15/C-N-050-Y-EN-SF-A-ST-00-00-00			218001	80	2.250
Certificates	ATEX (BAS), Brazil (ULB), China (CQST), IECEx (BAS), India (PESO)					
Rated operational voltage DC	24 V					
Lens colour	Product Type			Art. No.	PS	Weight kg
Blue	FX15/C-D-050-B-EN-SF-A-ST-00-00-00			217992	80	2.230
Clear	FX15/C-D-050-C-EN-SF-A-ST-00-00-00			217989	80	2.230
Green	FX15/C-D-050-G-EN-SF-A-ST-00-00-00			217997	80	2.230
Orange	FX15/C-D-050-A-EN-SF-A-ST-00-00-00			217979	80	2.230
Red	FX15/C-D-050-R-EN-SF-A-ST-00-00-00			217971	80	2.230

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Selection Table

Certificates Rated operational voltage DC	ATEX (BAS), Brazil (ULB), China (CQST), IECEx (BAS), India (PESO) 24 V			
Lens colour	Product Type	Art. No.	PS	Weight kg
Yellow	FX15/C-D-050-Y-EN-SF-A-ST-00-00-00	217991	80	2.230
Certificates Rated operational voltage AC EAC gas explosion protection EAC dust explosion protection	ATEX (BAS), China (CQST), IECEx (BAS), Russian Federation (TPB SER) 230 V Ex d IIB T6 ... T4 Gb X Ex tb IIIC T75°C/90°C/105°C			
Lens colour	Product Type	Art. No.	PS	Weight kg
Green	FX15/C-N-050-G-RU-SF-A-ST-00-00-00	257179	80	2.250
Orange	FX15/C-N-050-A-RU-SF-A-ST-00-00-00	250498	80	2.250
Red	FX15/C-N-050-R-RU-SF-A-ST-00-00-00	238878	80	2.250
Yellow	FX15/C-N-050-Y-RU-SF-A-ST-00-00-00	250499	80	2.250
Certificates Rated operational voltage DC EAC gas explosion protection EAC dust explosion protection	ATEX (BAS), China (CQST), IECEx (BAS), Russian Federation (TPB SER) 24 V Ex d IIB T6 ... T4 Gb X Ex tb IIIC T73°C/88°C/103°C			
Lens colour	Product Type	Art. No.	PS	Weight kg
Orange	FX15/C-D-050-A-RU-SF-A-ST-00-00-00	239122	80	2.230
Red	FX15/C-D-050-R-RU-SF-A-ST-00-00-00	239121	80	2.230
Yellow	FX15/C-D-050-Y-RU-SF-A-ST-00-00-00	252025	80	2.230

Technical Data

Variant	24 V	115 V	230 V
Explosion Protection			
IECEx gas explosion protection	Ex d IIC T6/T5/T4 Gb	Ex d IIC T5/T4 Gb	Ex d IIC T6/T5/T4 Gb
IECEx dust explosion protection	Ex tb IIIC T73 °C ... T88 °C ... T103 °C Db	Ex tb IIIC T83 °C ... T113 °C Db	Ex tb IIIC T75 °C ... T90 °C ... T105 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex d IIC T6/T5/T6 Gb	⊕ II 2 G Ex d IIC T5/T4 Gb	⊕ II 2 G Ex d IIC T6/T5/T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T73 °C ... T88 °C ... T103 °C Db	⊕ II 2 D Ex tb IIIC T83 °C ... T113 °C Db	⊕ II 2 D Ex tb IIIC T75 °C ... T90 °C ... T105 °C Db
Electrical Data			
Tolerance	-10 - 10 %	-10 - 10 %	-10 - 10 %
Ambient Conditions			
Ambient temperature	-60 °C ... +40 °C (IIC T6) (T73 °C) -60 °C ... +55 °C (T5) (T88 °C) -60 °C ... +70 °C (T4) (T103 °C)	-60 °C ... +40 °C (IIC T5) (T83 °C) -60 °C ... +55 °C (T4) (T113 °C)	-60 °C ... +40 °C (IIC T6) (T75 °C) -60 °C ... +55 °C (T5) (T90 °C) -60 °C ... +70 °C (T4) (T105 °C)
Operating temperature	-50 °C ... +70 °C	-55 °C ... +55 °C	-55 °C ... +70 °C
Lighting Data			
Lamp	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes
Flashbulb	5 J	5 J	5 J
Flash rate	1 Hz	1 Hz	1 Hz
Mechanical Data			
Degree of protection IP (IEC 60529)	IP66/IP67	IP66/IP67	IP66/IP67
Enclosure material	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced	Polyester (GRP), Glass fibre reinforced
Enclosure colour	Black	Black	Black
Material mounting parts	Stainless steel	Stainless steel	Stainless steel
Material dome	Polycarbonate, prismatic	Polycarbonate, prismatic	Polycarbonate, prismatic
Material wire guard	Stainless steel	Stainless steel	Stainless steel
Connection terminals solid max.	2.5 mm ²	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²

E5

Technical Data

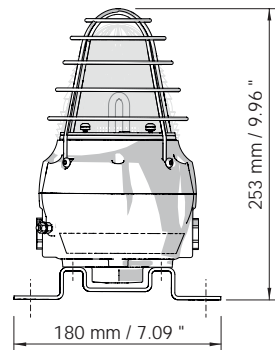
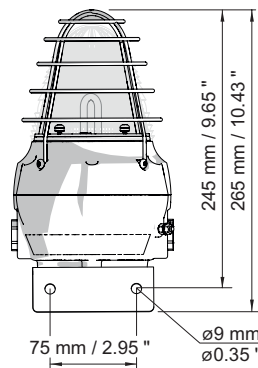
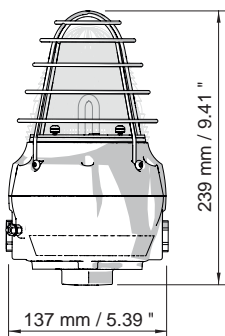
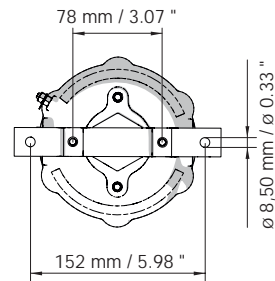
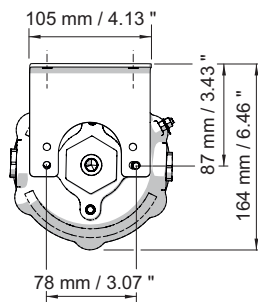
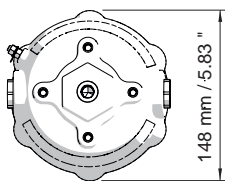
Variant	24 V	115 V	230 V
Mounting / Installation			
Connection type	Screw terminal	Screw terminal	Screw terminal
Components			
Drilled holes	3 x M20	3 x M20	3 x M20
Cable glands	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	3 x dust cap	3 x dust cap	3 x dust cap

You can find more technical data online at r-stahl.com. WebCode FX15B

FX15 Beacons are supplied without a bracket. These must be ordered separately (see Accessories table).

Accessories and spare parts see page 536

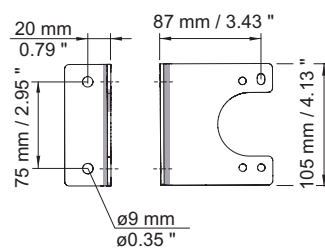
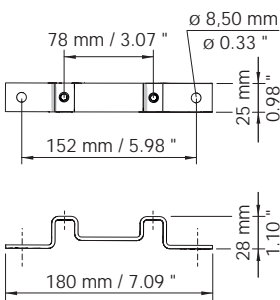
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



FX15 Beacon

FX15 Beacon with L-bracket



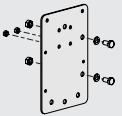
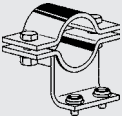






FX15 Beacon with backstrap bracket







Backstrap bracket

L-shaped bracket

E5

Accessories				
Figure	Description	Art. No.	PS	Weight kg
Mounting accessories				
	Stainless steel backstrap mounting bracket - see dimensional drawings	221712 ▲	Z3	0.155
	Stainless steel L-bracket; standard — see dimensional drawings	221711 ▲	Z3	0.287
	Bracket assembly kit accessories made of stainless steel; long version	247371	Z3	0.280
Fixed adaptor				
	Adaptor plate for use in combination with pipe clamps	256519	Z3	0.630
Pipe clamp				
	R 1 1/2"	120819	Z3	0.470
	R 1 1/4"	120812	Z3	0.500
	R 2"	120823	Z3	0.500
Sun shield				
	material: stainless steel	262077	Z3	0.200
Cable glands made of metal				
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464 ▲	10	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428 ▲	10	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	10	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441 ▲	10	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	10	0.200
	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)	246561 ▲	10	0.280
Stopping plugs				
	Stopping plug made of stainless steel M20x1,5 with external hexagon	251101 ▲	18	0.079

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Spare Parts				
Figure	Description	Art. No.	PS	Weight kg
Flange				
	Flange assembly standard, amber	243407	E3	1.190
	Flange assembly standard, blue	243406	E3	1.190
	Flange assembly standard, clear	223578	E3	1.190
	Flange assembly standard, green	243405	E3	1.190
	Flange assembly standard, red	243408	E3	1.190
	Flange assembly standard, opal	243410	E3	1.190
	Flange assembly standard, yellow	243409	E3	1.190
PCB termination				
	PCB assembly termination, for 5 Joule Xenon beacon only	223579	E3	0.020
PCB				
	PCB assembly 110 V AC 5J, for 5 Joule Xenon flashing beacons	223632	E3	0.118
	PCB assembly 230 V AC 5J, for 5 Joule Xenon flashing beacons	223580	E3	0.100
	PCB assembly 24 V DC 5J, for 5 Joule Xenon flashing beacons	223635	E3	0.080
Xenon tube				
	Replacement xenon tube assembly	223636	E3	0.006



- Ex d enclosure made from seawater-resistant aluminium
- 5, 10 or 20 Joule xenon strobe
- Lens available in seven different colours
- Stainless steel fixings
- Flash rate 1 Hz
- Lens guard and mounting bracket supplied as standard
- IP66 rated as standard / NEMA 4X (for UL variants)
- Telephone initiate option available
- SIL 1 IEC61508-2:2010

WebCode **FL60B**



Yodalex range

Product Series FL60 is designed to provide a 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. Visual signal designed for use in hazardous or harsh environments.

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

	NEC 505			NEC 506		
	Class I					
Zone	0	1	2	20	21	22
Ex interface		•	•			
Installation in		•	•			

	NEC 500					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•	•	•
Installation in	•	•	•	•	•	•

Selection Table

Certificates Flashbulb							ATEX (BAS), EAC (TehnP), India (PESO), Russian Federation (TPB SER) 5 J							
Rated operational voltage AC	Rated operational voltage DC	Lens colour		Product Type	Art. No.	PS	Weight kg							
115 V	-	Orange		FL60/C/L50/A/RU	212382	80	5.080							
		Red		FL60/C/L50/R/RU	212383	80	5.080							
230 V	-	Orange		FL60/C/N50/A/RU	212384	80	5.080							
		Red		FL60/C/N50/R/RU	212385	80	5.080							
		Yellow		FL60/C/N50/Y/RU	220086	80	5.080							
-	24 V	Orange		FL60/C/D50/A/RU	206976	80	5.080							
		Red		FL60/C/D50/R/RU	212381	80	5.080							
		Yellow		FL60/C/D50/Y/RU	264017	80	5.080							
Certificates Flashbulb							ATEX (BAS), IECEx (BAS), India (PESO), Korea (KTL), SIL (exida), Taiwan (ITRI) 5 J							
Rated operational voltage AC	Rated operational voltage DC	Lens colour		Product Type	Art. No.	PS	Weight kg							
115 V	-	Orange		FL60/C/L50/A/EU	212366	80	5.080							
		Blue		FL60/C/L50/B/EU	205143	80	5.080							
		Green		FL60/C/L50/G/EU	205144	80	5.080							
		Red		FL60/C/L50/R/EU	205145	80	5.080							

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Selection Table						
Certificates Flashbulb		ATEX (BAS), IECEx (BAS), India (PESO), Korea (KTL), SIL (exida), Taiwan (ITRI)				
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	PS	Weight kg
230 V	-	Orange	FL60/C/N50/A/EU	205150	80	5.080
		Blue	FL60/C/N50/B/EU	205151	80	5.080
		Clear	FL60/C/N50/C/EU	205152	80	5.080
		Red	FL60/C/N50/R/EU	205153	80	5.080
		Yellow	FL60/C/N50/Y/EU	205155	80	5.080
-	24 V	Orange	FL60/C/D50/A/EU	205129 ▲	80	5.080
		Blue	FL60/C/D50/B/EU	205130	80	5.080
		Clear	FL60/C/D50/C/EU	206984	80	5.080
		Green	FL60/C/D50/G/EU	206982	80	5.080
		Red	FL60/C/D50/R/EU	205133	80	5.080
		Yellow	FL60/C/D50/Y/EU	205140	80	5.080
Certificates Flashbulb		ATEX (BAS), IECEx (BAS), India (PESO), Korea (KTL), SIL (exida), Taiwan (ITRI)				
		10 J				
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	PS	Weight kg
115 V	-	Clear	FL60/C/L100/C/EU	205142	80	5.080
		Red	FL60/C/L100/R/EU	206993	80	5.080
		Yellow	FL60/C/L100/Y/EU	252627	80	5.080
230 V	-	Orange	FL60/C/N100/A/EU	205146	80	5.080
		Blue	FL60/C/N100/B/EU	205147	80	5.080
		Red	FL60/C/N100/R/EU	205148	80	5.080
		Yellow	FL60/C/N100/Y/EU	229927	80	5.080
-	24 V	Orange	FL60/C/D100/A/EU	243725	80	5.080
		Blue	FL60/C/D100/B/EU	222058	80	5.080
		Clear	FL60/C/D100/C/EU	260788	80	5.080
		Red	FL60/C/D100/R/EU	205124	80	5.080
		Yellow	FL60/C/D100/Y/EU	205125	80	5.080
Certificates Flashbulb		ATEX (BAS), IECEx (BAS), India (PESO), Korea (KTL), SIL (exida), Taiwan (ITRI)				
		20 J				
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	PS	Weight kg
115 V	-	Clear	FL60/C/L200/C/EU	206996	80	5.080
		Red	FL60/C/L200/R/EU	206995	80	5.080
230 V	-	Orange	FL60/C/N200/A/EU	217478	80	5.080
		Clear	FL60/C/N200/C/EU	257225	80	5.080
		Red	FL60/C/N200/R/EU	205149	80	5.080
		Yellow	FL60/C/N200/Y/EU	223322	80	5.080
-	24 V	Orange	FL60/C/D200/A/EU	205126	80	5.080
		Blue	FL60/C/D200/B/EU	252854	80	5.080
		Clear	FL60/C/D200/C/EU	252855	80	5.080
		Red	FL60/C/D200/R/EU	205127	80	5.080
		Yellow	FL60/C/D200/Y/EU	205128	80	5.080

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Selection Table

Certificates		Canada / USA (UL)				
Flashbulb		5 J				
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	PS	Weight kg
115 V	-	Clear	FL60/B/L50/C/UL	261246	80	5.080
230 V	-	Orange	FL60/B/N50/A/UL	212367	80	5.080
		Red	FL60/B/N50/R/UL	211406	80	5.080
-	24 V	Orange	FL60/B/D50/A/UL	205156	80	5.080
		Blue	FL60/B/D50/B/UL	205368	80	5.080
		Clear	FL60/B/D50/C/UL	205159	80	5.080
		Red	FL60/B/D50/R/UL	205160	80	5.080
		Yellow	FL60/B/D50/Y/UL	205369	80	5.080

Further variations in gas group, flash energy, voltage and lens colour are available, please use the selection table on the internet. WebCode FL60B
The tone table can be found online at r-stahl.com.

Technical Data

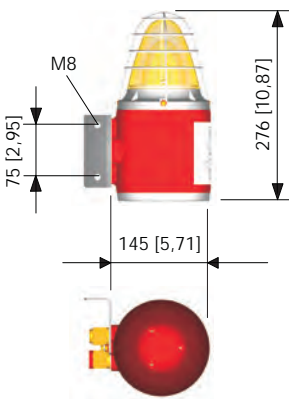
Variant	5 J (ATEX / IECEx)	10 J / 20 J (ATEX / IECEx)	5 J (EAC)	5 J (UL)
Explosion Protection				
IECEx gas explosion protection	Ex d IIB+H2 T4/T6 Gb	Ex d IIB+H2 T4 Gb		Ex d IIB+H2 T4 Gb
IECEx dust explosion protection	Ex tb IIIC T135 °C ... T85 °C Db	Ex tb IIIC T135 °C Db		Ex tb IIIC T135 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex d IIB+H2 T4/T6 Gb	⊕ II 2 G Ex d IIB+H2 T4 Gb		⊕ II 2 G Ex d IIB+H2 T4 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T135 °C ... T85 °C Db	⊕ II 2 D Ex tb IIIC T135 °C Db		⊕ II 2 D Ex tb IIIC T135 °C Db
EAC gas explosion protection			⊕ 1 Ex d IIB+H2 T4 Gb X ⊕ 1 Ex d IIB+H2 T6 Gb X	
EAC dust explosion protection			⊕ Ex tb IIIC T135 °C Db X ⊕ Ex tb IIIC T85 °C Db X	
Electrical Data				
Tolerance	-10 – 10 %	-10 – 10 %	-10 – 10 %	-10 – 10 %
Ambient Conditions				
Ambient temperature	-20 °C ... +60 °C (IIB+H2 T4) (T135 °C) -20 °C ... +40 °C (IIB+H2 T6) (T85 °C)	-20 °C ... +60 °C	-20 °C ... +60 °C (IIB+H2 T6) (T85 °C) -20 °C ... +40 °C (T4) (T135 °C)	-20 °C ... +60 °C
Lighting Data				
Lamp	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes	Xenon flash tubes
Flash rate	1 Hz	1 Hz	1 Hz	1 Hz
Mechanical Data				
Degree of protection IP (IEC 60529)	IP66	IP66	IP66	IP66
Protection class	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)
Enclosure material	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant
Sealing material	NBR O-ring seal	NBR O-ring seal	NBR O-ring seal	NBR O-ring seal
Material mounting parts	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated
Material dome	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Material wire guard	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Connection terminals solid max.	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Enclosure colour	red normal	red normal	red normal	red normal
Mounting / Installation				
Connection type	Screw terminal	Screw terminal	Screw terminal	Screw terminal

Technical Data				
Variant	5 J (ATEX / IECEx)	10 J / 20 J (ATEX / IECEx)	5 J (EAC)	5 J (UL)
Components				
Drilled holes	2 x M20	2 x M20	2 x M20	2 x M20
Cable glands	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plug	1 x M20 x 1.5 1 x dust cap	1 x M20 x 1.5 1 x dust cap	1 x dust cap 1 x M20 x 1.5	2x1/2"NPT adaptor M20x1/ 2"NPT
Stopping plug material	Brass	Brass	Brass	Brass

You can find more technical data online at r-stahl.com. WebCode FL60B

Approvals of the cable entries must be observed.

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





Accessories



Figure	Description	Art. No.	PS	Weight kg
Cable glands made of metal				
	Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	243464 ▲	10	0.070
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428 ▲	10	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	10	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441 ▲	10	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	10	0.200
	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)	246561 ▲	10	0.280
Mounting bracket				
	Stainless steel bracket fixing kit accessories	210794	Z3	0.400

E5

Accessories

Figure	Description	Art. No.	PS	Weight kg
Mounting bracket				
	material: stainless steel	262014	Z3	0.290
Sun shield				
	material: stainless steel	262012	Z3	0.180

Spare Parts

Figure	Description	Art. No.	PS	Weight kg
Moulding-lens				
	clear	209402	E3	0.070
	red	209405	E3	0.070
	yellow	209406	E3	0.070
Emergency light flange				
	amber ATEX spare	209407	E3	1.080
	amber UL spare	209421	E3	1.080
	blue ATEX spare	209408	E3	1.080
	blue UL spare	209422	E3	1.080
	clear ATEX spare	209409	E3	1.080
	clear UL spare	209423	E3	1.080
	green ATEX spare	209410	E3	1.080
	green UL spare	209424	E3	1.080
	opal ATEX spare	209411	E3	1.080
	opal UL spare	209425	E3	1.080
	red ATEX 10/20J spare	209419	E3	1.080
	red ATEX spare	209412	E3	1.080
	red UL spare	209426	E3	1.080
	yellow ATEX spare	209413	E3	1.080
	yellow UL spare	209427	E3	1.080
magenta ATEX spare	262929	E3	1.080	

E5



- Robust, seawater resistant aluminium enclosure
- Flashing frequency 1 Hz
- Flashing energy 5 Joules
- Integrated Ex e connection chamber
- Light dome available in: signal yellow, red, orange, green, blue and clear
- Steady beacon in LED technology
- Extreme temperature range -40 ... +50 °C

WebCode **6161A**



The flashing beacons and steady beacons of Series 6161 are installed to provide optical signals in explosive gas atmospheres and areas with combustible dust.

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

Selection Table							
Lamp	Flash tubes						
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	PS	Weight kg	
24 – 42 V	12 – 48 V	Yellow	6161/2-61-121-0	120674	34	1.400	
		Clear	6161/2-61-221-0	219802	34	1.400	
		Red	6161/2-61-321-0	120668	34	1.400	
		Blue	6161/2-61-421-0	219803	34	1.400	
		Green	6161/2-61-521-0	263357	34	1.400	
		Orange	6161/2-61-621-0	120680	34	1.310	
42 – 48 V	60 – 80 V	Yellow	6161/2-41-121-0	219813	34	1.400	
		110 – 127 V	-	Yellow	6161/2-31-121-0	219805	34
110 – 127 V	-	Clear	6161/2-31-221-0	219806	34	1.400	
		Red	6161/2-31-321-0	219807	34	1.400	
		Blue	6161/2-31-421-0	219808	34	1.400	
		Green	6161/2-31-521-0	219810	34	1.400	
		Orange	6161/2-31-621-0	219809	34	1.400	
		230 V	-	Yellow	6161/2-11-121-0	120648	34
Clear	6161/2-11-221-0			219249	34	1.400	
Red	6161/2-11-321-0			120655	34	1.400	
Blue	6161/2-11-421-0			219250	34	1.400	
Green	6161/2-11-521-0			219801	34	1.400	
Orange	6161/2-11-621-0			120662	34	1.400	

E5

Selection Table

Lamp		Flash tubes				
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	PS	Weight kg
-	60 – 80 V	Clear	6161/2-41-221-0	219814	34	1.400
		Red	6161/2-41-321-0	219815	34	1.400
		Blue	6161/2-41-421-0	219816	34	1.400
		Green	6161/2-41-521-0	219819	34	1.400
		Orange	6161/2-41-621-0	219817	34	1.400
Lamp		LED				
Rated operational voltage AC	Rated operational voltage DC	Lens colour	Product Type	Art. No.	PS	Weight kg
24 V	24 V	Yellow	6161/3-70-121-0	219845	34	1.400
		Clear	6161/3-70-221-0	219846	34	1.400
		Red	6161/3-70-321-0	219847	34	1.400
		Blue	6161/3-70-421-0	219848	34	1.400
		Green	6161/3-70-521-0	219850	34	1.400
		Orange	6161/3-70-621-0	219849	34	1.400
230 V	-	Yellow	6161/3-10-121-0	219822	34	1.400
		Clear	6161/3-10-221-0	219828	34	1.400
		Red	6161/3-10-321-0	219831	34	1.400
		Blue	6161/3-10-421-0	219832	34	1.400
		Green	6161/3-10-521-0	219844	34	1.400
		Orange	6161/3-10-621-0	219842	34	1.400

Technical Data

Explosion Protection

IECEx gas explosion protection	Ex de IIC T6/T5 Gb
IECEx dust explosion protection	Ex tb IIIC T85 °C ... T100 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex de IIC T6/T5 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T85 °C ... T100 °C Db
EAC gas explosion protection	Ⓕ 1 Ex d e IIC T6...T5 Gb X
EAC dust explosion protection	Ⓕ Ex tb IIIC T65 °C...T100 °C Db X
Certificates	ATEX (LCI), China (CQST), EAC (TehnoP), IECEx (LCI), India (PESO), Korea (KTL)
Ship approval	GL

Electrical Data

Back-up fuse	4 AT
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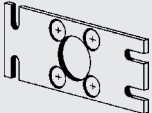
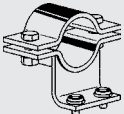
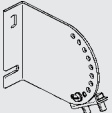
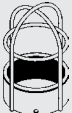
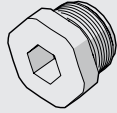

Ambient Conditions

Ambient temperature	-40 °C ... +40 °C (IIC T6) (T85 °C) -40 °C ... +50 °C (T5) (T100 °C)
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Mechanical Data

Degree of protection IP (IEC 60529)	IP66
Enclosure material	Aluminium, powder-coated, Seawater-resistant
Enclosure colour	Yellow / black, powder-coated
Sealing material	NBR O-ring seal
Material mounting parts	Stainless steel
Material dome	Polycarbonate (Lexan) Prismatic
Terminal marking	PE + N + L1
Connection terminals solid max.	4 mm ²
Connection terminals finely-stranded max.	2.5 mm ²

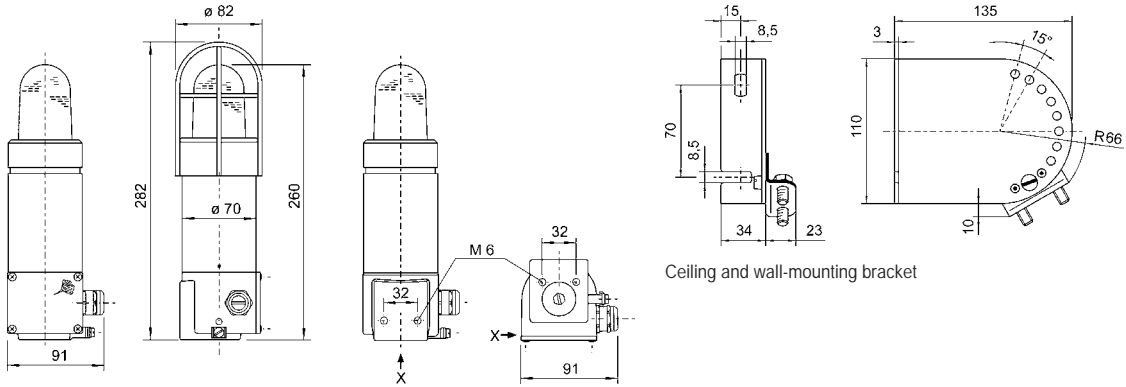
Technical Data	
Mounting / Installation	
Connection type	Screw terminals, 3-pin
Components	
Drilled holes	2 x M20
Cable glands	1 x M20 Ø 4 – 13 mm
Material cable gland	Polyamide, black
Stopping plug	1 x M20 x 1.5
Stopping plug material	Polyamide, black
You can find more technical data online at r-stahl.com . WebCode 6161A	

Accessories		Art. No.	PS	Weight kg
Mounting plate				
	material: stainless steel, includes mounting screws, for wall or floor mounting	120821	Z3	0.158
Pipe clamp				
	R 1 1/4"	120812	Z3	0.500
	R 1 1/2"	120819	Z3	0.470
	R 2"	120823	Z3	0.500
Ceiling and wallmounting bracket				
	material: stainless steel includes mounting screws	120826▲	Z3	0.480
Wire guard				
	material: stainless steel	120818▲	Z3	0.260
Stopping plug				
	8290/3-M20, 1 piece	143522▲	18	0.005
	8290/3-M20, 100 pieces	143543▲	18	0.500
Cable gland				
	8161/7-M20-1304 4 ... 13 mm², 50 pieces (delivery lot*)	239156▲	10	0.013

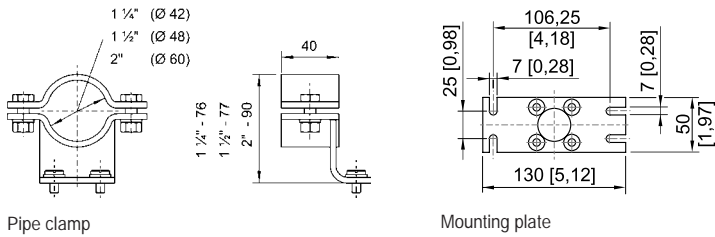
* Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the delivery lot.

E5

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



Optical beacon 6161



Pipe clamp

Mounting plate



- Xenon versions: rotating mirror beacon, rotating beacon, beacon with double flash (9 + 5 J), flashing beacon (15 J) with 20 W / 35 W halogen bulb
- LED versions: continuous beacon and rotating beacon
- Seawater resistant aluminium enclosure with glass dome
- Integrated Ex e connection chamber
- Glass dome available in: signal yellow, red, orange and blue resp. clear

WebCode **6162A**



The R. STAHL Signal Beacon Series 6162 is approved for use in Ex Zones 1, 2, 21 and 22.

All models feature an integrated "increased safety" wiring space.

The rotating mirror beacons and the rotating beacons have an integrated wear resistant friction gear which creates 180 light signals per minute.

The wear-free LED beacons ensure an extremely high service life of up to 50,000 hours due to the innovative LED technology.

In addition to the LED-continuous beacon, a LED-rotating beacon is also available.

This LED-rotating beacon is maintenance-free thanks to the absence of any moving components.

The robust, seawater resistant aluminium enclosure ensures IP66 protection for all models.

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

Selection Table								
Product variant	LED 360° signalling device							
Lamp	LED							
Power	3.6 W							
Lens colour	Gas temperature class	Dust maximum surface temperature	Rated operational voltage DC	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Orange	T6	70 °C	24 V	-	6162/18-55-611	219961	34	5.300
		70 °C	-	115 – 230 V	6162/18-95-611	219976	34	5.300
Red	T6	70 °C	24 V	-	6162/18-55-311	219959	34	5.300
		70 °C	-	115 – 230 V	6162/18-95-311	219975	34	5.300
Yellow	T6	70 °C	24 V	-	6162/18-55-111	219972	34	5.300
		70 °C	-	115 – 230 V	6162/18-95-111	201903	34	5.300
Product variant	LED continuous beacon							
Lamp	LED							
Power	5 W							
Lens colour	Gas temperature class	Dust maximum surface temperature	Rated operational voltage DC	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg
Orange	T6	70 °C	24 V	-	6162/19-55-611	203036	34	5.300
		70 °C	-	115 – 230 V	6162/19-95-611	203037	34	5.300
Red	T6	70 °C	24 V	-	6162/19-55-311	201880	34	5.300
		70 °C	-	115 – 230 V	6162/19-95-311	219980	34	5.300

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Selection Table

Product variant		LED continuous beacon							
Lamp	Power	LED 5 W							
Lens colour	Gas temperature class	Dust maximum surface temperature	Rated operational voltage DC	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg	
Yellow	T6	70 °C	24 V	-	6162/19-55-111	201879	34	5.300	
		70 °C	-	115 – 230 V	6162/19-95-111	201901	34	5.300	
Product variant		Xenon flashing beacon							
Lamp	Flashbulb	Flash tubes 15 J 1 Hz							
Lens colour	Gas temperature class	Dust maximum surface temperature	Rated operational voltage DC	Rated operational voltage AC	Product Type	Art. No.	PS	Weight kg	
Blue	T6	75 °C	24 V	24 V	6162/15-64-411	219861	34	5.300	
		80 °C	-	230 – 240 V	6162/15-74-411	219866	34	5.300	
Clear	T6	75 °C	24 V	24 V	6162/15-64-211	219799	34	5.300	
		80 °C	-	230 – 240 V	6162/15-74-211	219864	34	5.300	
Orange	T6	75 °C	24 V	24 V	6162/15-64-611	219862	34	5.300	
		80 °C	-	230 – 240 V	6162/15-74-611	219867	34	5.300	
Red	T5	95 °C	-	110 – 127 V	6162/15-44-311	219795	34	5.300	
		T6	75 °C	24 V	24 V	6162/15-64-311	219800	34	5.300
			80 °C	-	230 – 240 V	6162/15-74-311	219865	34	5.300
Yellow	T6	75 °C	24 V	24 V	6162/15-64-111	219798	34	5.300	
		80 °C	-	230 – 240 V	6162/15-74-111	219863	34	5.300	

The optical beacons are supplied without mounting accessories and wire guard. These must be ordered separately!

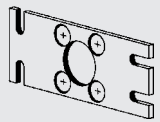
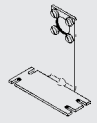

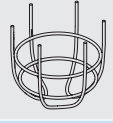
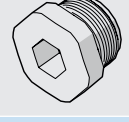

Technical Data

Variant	Xenon flashing beacon T5	Xenon flashing beacon T6	LED 360° signalling device T6	LED continuous beacon T6
Explosion Protection				
IECEX gas explosion protection	Ex de IIC T.. Gb	Ex de IIC T.. Gb	Ex de IIC T.. Gb	Ex de IIC T.. Gb
IECEX dust explosion protection	Ex tb IIIC T.. Db	Ex tb IIIC T.. Db	Ex tb IIIC T.. Db	Ex tb IIIC T.. Db
ATEX gas explosion protection	⊕ II 2 G Ex de IIC T.. Gb	⊕ II 2 G Ex de IIC T.. Gb	⊕ II 2 G Ex de IIC T.. Gb	⊕ II 2 G Ex de IIC T.. Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T.. Db	⊕ II 2 D Ex tb IIIC T.. Db	⊕ II 2 D Ex tb IIIC T.. Db	⊕ II 2 D Ex tb IIIC T.. Db
Certificates	ATEX (PTB), IECEX (PTB)	ATEX (PTB), IECEX (PTB)	ATEX (PTB), IECEX (PTB)	ATEX (PTB), IECEX (PTB)
Notes	For temperature classes and surface temperatures, see selection table			
Ambient Conditions				
Ambient temperature	-20 °C ... +40 °C (IIC T5) (T95 °C) -20 °C ... +50 °C (T4) (T105 °C)	-20 °C ... +40 °C (IIC T6) (T75 °C) -20 °C ... +50 °C (T6) (T75 °C)	-20 °C ... +40 °C (IIC T6) (T70 °C) -20 °C ... +50 °C (T6) (T80 °C) -20 °C ... +60 °C (T5) (T90 °C)	-20 °C ... +40 °C (IIC T6) (T70 °C) -20 °C ... +50 °C (T6) (T80 °C) -20 °C ... +60 °C (T5) (T90 °C)
Mechanical Data				
Degree of protection IP (IEC 60529)	IP66	IP66	IP66	IP66
Protection class	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)	I (PE connection) (Internal + external)
Enclosure material	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant	Aluminium, powder-coated, Seawater-resistant
Material dome	Glass Temperature-resistant	Glass Temperature-resistant	Glass Temperature-resistant	Glass Temperature-resistant
Terminal marking	PE + N + L1	PE + N + L1	PE + N + L1	PE + N + L1
Connection terminals solid max.	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Connection terminals finely-stranded max.	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Mounting / Installation				
Connection type	Screw terminals, 3-pin	Screw terminals, 3-pin	Screw terminals, 3-pin	Screw terminals, 3-pin

E5

Technical Data				
Variant	Xenon flashing beacon T5	Xenon flashing beacon T6	LED 360° signalling device T6	LED continuous beacon T6
Components				
Drilled holes	2 x M20	2 x M20	2 x M20	2 x M20
Cable glands	1 x M20 x 1.5	1 x M20 x 1.5	1 x M20 x 1.5	1 x M20 x 1.5
Material cable gland	Polyamide, black	Polyamide, black	Polyamide, black	Polyamide, black
Stopping plug	1 x M20 x 1.5	1 x M20 x 1.5	1 x M20 x 1.5	1 x M20 x 1.5
Stopping plug material	Polyamide, black	Polyamide, black	Polyamide, black	Polyamide, black
Wire guard	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories

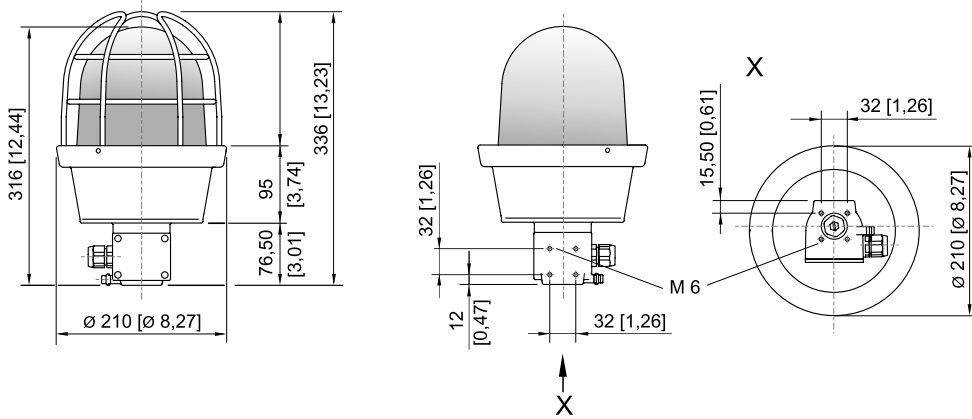
You can find more technical data online at r-stahl.com. WebCode 6162A

Accessories				
Figure	Description	Art. No.	PS	Weight kg
Mounting plate				
	material: stainless steel, includes mounting screws, for wall or floor mounting	120821	Z3	0.158
Mounting bracket				
	material: stainless steel, includes mounting screws	120930 ▲	Z3	0.450
Pipe clamp				
	R 1 1/2"	120920	Z3	0.560
	R 1 1/4"	120919	Z3	0.520
	R 2"	120921	Z3	0.600
Wire guard				
	material: stainless steel, includes mounting screws	120917	Z3	0.540
Stopping plug				
	8290/3-M20, 1 piece	143522 ▲	18	0.005
	8290/3-M20, 100 pieces	143543 ▲	18	0.500
Cable gland				
	8161/7-M20-1304 4 ... 13 mm ² , 50 pieces (delivery lot*)	239156 ▲	10	0.013

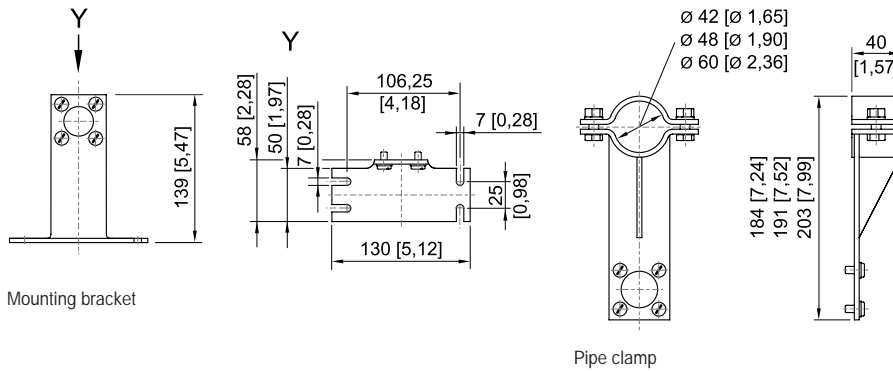
* Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the delivery lot.

E5

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

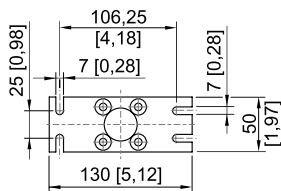


Signal beacon Series 6162



Mounting bracket

Pipe clamp



Mounting plate

E5



- Corrosion-resistant, GRP Ex d enclosure
- Light weight enclosure
- Weather-resistant high performance red paint finish as standard, other colours available
- Break glass version supplied with test key
- Push button version supplied with reset key and lift flap
- Optional extras include stainless steel lift flap, duty and tag labels

WebCode MCPA



Yodalex range

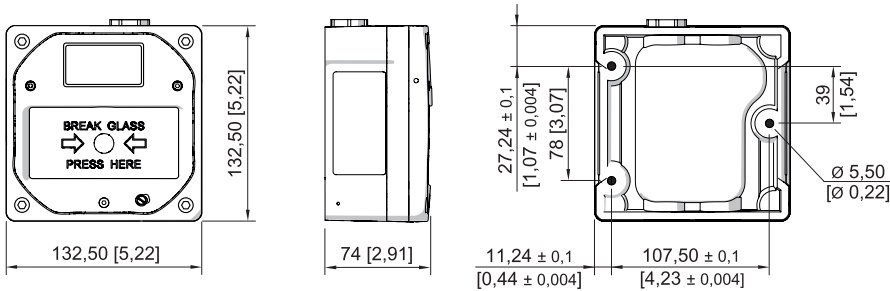
Conventional manual call points designed for use in Hazardous or harsh environments. The devices provide a manual interface emergency switch for a number of applications. MCP BG is a single action break glass device which is activated by breaking the frangible glass pane on the front side of the call point; this provides the user with a distinct trigger signal. MCP PB is a latching, double action, push button call point. Both devices can be equipped with a number of variants and accessories.

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

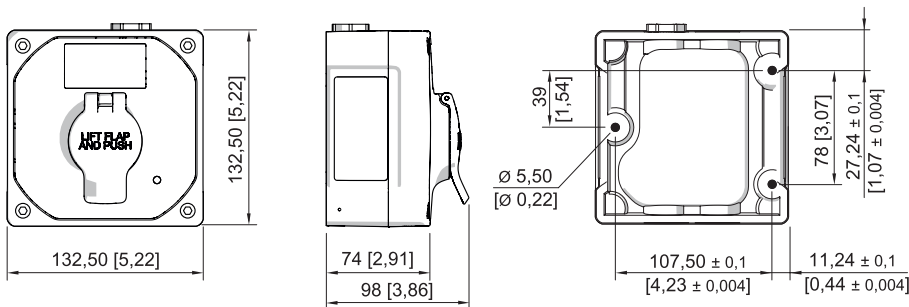
Selection Table						
Version	Cullet					
Figure	Enclosure colour	Contacts	Product Type	Art. No.	PS	Weight kg
	Blue (RAL 5015)	1 change-over contact	MCP/BG/SP/Ex/A+B+C+D/EU/B	205330	80	1.530
	Green (RAL 6032)	1 change-over contact	MCP/BG/SP/Ex/A+B+C+D/EU/G	214077	80	1.530
	Red (RAL 3001)	1 change-over contact	MCP/BG/SP/Ex/A+B+C+D/EU/R	205324	80	1.530
		1 change-over contact	MCP/BG/SP/EX/A+B+C+D/RU/R	212402	80	1.530
	Yellow (RAL 1018)	1 change-over contact	MCP/BG/SP/EX/A+B+C+D/EU/Y	253095	80	1.530

E5

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



Break glass manual call point




Push button manual call point

Accessories




Figure	Description	Art. No.	PS	Weight kg
Cable glands made of metal				
	Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass)	109428 ▲	10	0.240
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors	246649	10	0.240
	Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass)	109441 ▲	10	0.200
	RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20	246605	10	0.200
Fastening set				
	Adaptor plate for use in combination with pipe clamps	257011	Z3	0.630
	Sun shield: Sun shield for use with adapter plate	256520	Z3	0.350
Pipe clamp				
	R 1 1/2"	120819	Z3	0.470
	R 1 1/4"	120812	Z3	0.500
	R 2"	120823	Z3	0.500
Stopping plugs				
	Stopping plug VA M20x1,5 with internal hex	263665	18	0.034

E5

Accessories

Figure	Description	Art. No.	PS	Weight kg
Stopping plugs				
	Stopping plug made of stainless steel M20x1,5 with external hexagon	251101 ▲	18	0.079

Spare Parts

Figure	Description	Art. No.	PS	Weight kg
Key				
	Reset key for push button device; replacement reset key; used to reset alarm after initiation	209531	E3	0.240
	Test key for break glass device; replacement test key; used to trigger alarm without breaking glass panel	209532	E3	0.050
Window glass				
	Replacement break glass pane; for use after initiation of alarm. Pack of 5 pieces.	208727	E3	0.110

Type Code		
Variations		MCP / - / - / - / - / - / - / - / - / - / - / - / - / - / - / -
Version	break glass	BG
	push button	PB
Contacts	1 change over	SP
	2 change over	DP
Explosion protection	standard	Ex
Cable entries	standard 4 x M20 with 3 x Ex d stopping plugs and 1 x dust cap glands to be ordered separately	A+B+C+D
Certification	ATEX & IECEX	EU
	EAC TR +	RU
	Russian Fire certificate (break glass version only)	
Colour	red	R
	blue	B
	green	G
	yellow	Y
	orange	O
	black	BK
	grey	GR
	yellow / black stripe	YB
red / black stripe	RB	
Accessories	lift flap (break glass version only)	LF
	end of line resistor	EOL
	inline resistor	IL
	end of line and inline resistor	ILEOL
	LED signal	LED
Labels (please specify wording)	duty label	D
	tag label (TAG)	T
	duty label and tag label (TAG)	DT
Additional approvals		L

E5