

Audible and visual signalling device

Series YL60 - Ex d, XENON/LED, aluminium



- Lamp: Flashing beacon – XENON (5 J)/LED (6.5 W)
- Horn: Omnidirectional/max. 110 db(A)
- Type of protection: Ex d
- Class: IP66 (IEC 60529/NEMA 4X)
- Robust aluminium enclosure (powder-coated)
- Including stainless steel protective cage and fastening bracket
- Eight light-amplifying Fresnel lens colours can be ordered
- 32 standardised preconfigured signal tones (compatible with PFEER/UKOOA)
- Two separate signal tones can be selected
- Connection for telephone systems can be ordered as an option

E5

MY R. STAHL YL60A



The **YL60 product series** provides audible and visual alarm signals which can be used to alert, warn or draw attention to equipment malfunction/start-up or any number of safety-related issues in hazardous areas. The audible and visual signals can be operated separately or in combination.

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

Selection Table						
Lamp		LED				
Rated operational voltage DC		21.1 ... 24 V				
Rated operational current		1500 mA				
Certificates	Lens colour	Effective luminous intensity	Product Type	Art. No.	Weight	
ATEX (BVIS), IECEx (BVIS), India (PESO)	Amber	–	YL60/21-DV0000-AW0002-ST0000-0000	284518	6 kg	
	Yellow	–	YL60/21-DV0000-YW0002-ST0000-0000	284519	6 kg	
	Red	–	YL60/21-DV0000-RR0002-ST0000-0000	284517	6 kg	
Lamp		Xenon flash tubes				
Rated operational voltage AC		115 V				
Rated operational current		200 mA				
Certificates	Lens colour	Effective luminous intensity	Product Type	Art. No.	Weight	
ATEX (BAS), IECEx (BAS), SIL (exida)	Amber	28 cd	YL60/C/L50/A/EU	205267	6 kg	
	Blue	13 cd	YL60/C/L50/B/EU	205268	6 kg	
	Yellow	42 cd	YL60/C/L50/Y/EU	205464	6 kg	
	Green	10 cd	YL60/C/L50/G/EU	205269	6 kg	
	Opal	35 cd	YL60/C/L50/O/EU	205270	6 kg	
	Red	14 cd	YL60/C/L50/R/EU	205271	6 kg	

Selection Table

Lamp		Xenon flash tubes			
Rated operational voltage AC		230 V			
Rated operational current		100 mA			
Certificates	Lens colour	Effective luminous intensity	Product Type	Art. No.	Weight
ATEX (BAS), IECEx (BAS), SIL (exida)	Amber	28 cd	YL60/C/N50/A/EU	205273	6 kg
	Blue	13 cd	YL60/C/N50/B/EU	205277	6 kg
	Yellow	42 cd	YL60/C/N50/Y/EU	205285	6 kg
	Clear	46 cd	YL60/C/N50/C/EU	205279	6 kg
	Opal	35 cd	YL60/C/N50/O/EU	205281	6 kg
	Red	14 cd	YL60/C/N50/R/EU	205282	6 kg


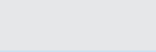


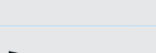
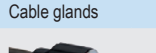
Lamp		Xenon flash tubes			
Rated operational voltage DC		21.1 ... 24 V			
Rated operational current		650 mA			
Certificates	Lens colour	Effective luminous intensity	Product Type	Art. No.	Weight
ATEX (BVIS), IECEx (BVIS), India (PESO)	Amber	-	YL60/21-D05000-AW0002-ST0000-0000	284510	6 kg
	Yellow	-	YL60/21-D05000-YW0002-ST0000-0000	284512	6 kg
	Red	-	YL60/21-D05000-RW0002-ST0000-0000	284511	6 kg

Lamp		Xenon flash tubes			
Rated operational voltage DC		24 V			
Rated operational current		570 mA			
Certificates	Lens colour	Effective luminous intensity	Product Type	Art. No.	Weight
ATEX (BAS), IECEx (BAS), Korea (KTL), SIL (exida)	Red	14 cd	YL60/C/D50/R/EU	205257	6 kg
	Amber	28 cd	YL60/C/D50/A/EU	205250	6 kg
ATEX (BAS), IECEx (BAS), SIL (exida)	Blue	13 cd	YL60/C/D50/B/EU	205252	6 kg
	Clear	46 cd	YL60/C/D50/C/EU	205254	6 kg
	Green	10 cd	YL60/C/D50/G/EU	205256	6 kg
	Yellow	42 cd	YL60/C/D50/Y/EU	206950	6 kg

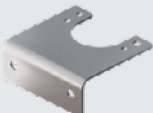
Technical Data

Variant	YL60/21-DV0000 LED	YL60/21-D05000 Xenon flash tubes	YL60 - EU Xenon flash tubes
Explosion Protection			
IECEx gas explosion protection	Ex db IIC T6 / T4 Gb	Ex db IIC T6 / T4 Gb	Ex db IIB+H2 T6 / T4 Gb
IECEx dust explosion protection	Ex tb IIIC T80 °C / T100 °C Db	Ex tb IIIC T80 °C / T100 °C Db	Ex tb IIIC T85 °C / T135 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db IIC T6 / T4 Gb	⊕ II 2 G Ex db IIC T6 / T4 Gb	⊕ II 2 G Ex db IIB+H2 T6 / T4 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C / T100 °C Db	⊕ II 2 D Ex tb IIIC T80 °C / T100 °C Db	⊕ II 2 D Ex tb IIIC T85 °C / T135 °C Db
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
Sound level	4	4	2
Volume control	Max. -18 dB(A) adjustment	Max. -18 dB(A) adjustment	
Ambient Conditions			
Ambient temperature gas Ex-area	-45 °C ... +50 °C (T6)	-45 °C ... +50 °C (T6)	
	-45 °C ... +70 °C (T4)	-45 °C ... +70 °C (T4)	
Ambient temperature dust Ex-area	-35 °C ... +50 °C (T80 °C)	-35 °C ... +50 °C (T80 °C)	
	-35 °C ... +70 °C (T100 °C)	-35 °C ... +70 °C (T100 °C)	
Functional ambient temperature	-40 °C ... +50 °C (T6)	-40 °C ... +50 °C (T6)	-20 °C ... +40 °C (T6)
	-40 °C ... +70 °C (T4)	-40 °C ... +70 °C (T4)	-20 °C ... +60 °C (T4)
Ambient temperature			-20 °C ... +40 °C (T6) -20 °C ... +60 °C (T4)


Technical Data			
Variant	YL60/21-DV0000 LED	YL60/21-D05000 Xenon flash tubes	YL60 – EU Xenon flash tubes
Lighting Data			
Flash rate	1 Hz 1.5 Hz 2 Hz Double flash 1 Hz Double flash 2 Hz Triple flash 1 Hz Triple flash 2 Hz	1 Hz	1 Hz
Flashbulb		5 J	5 J
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
Enclosure colour	Red (RAL 3001)	Red (RAL 3001)	red normal
Trumpet material	ABS, flame retardant	ABS, flame retardant	ABS, flame retardant
Material glas dome	Polycarbonate, prismatic	Polycarbonate, prismatic	Polycarbonate
Wire guard material	Stainless steel	Stainless steel	Stainless steel
Max. solid connection terminals	2.5 mm ²	2.5 mm ²	2.5 mm ²
Max. finely stranded connection terminals	2.5 mm ²	2.5 mm ²	2.5 mm ²
Mounting / Installation			
Mounting part material	Sheet steel, powder-coated	Sheet steel, powder-coated	Sheet steel, powder-coated
Connection type	Push in	Push in	Screw terminal
Components			
Drilled holes	2 x M20	2 x M20	2 x M20
Cable glands and entries	Can be ordered as accessories	Can be ordered as accessories	Can be ordered as accessories
Stopping plugs	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
Stopping plug material	Brass	Brass	Brass
You can find more technical data online at r-stahl.com . WebCode YL60A			

Accessories			
Figure	Description	Art. No.	Weight
Metal cable gland			
	Ex d and Ex e cable gland with compound for all types of armoured cables (SWA, wire-braid, tape) (nickel-plated brass) Type 20PX2K, M20 x 1.5	109428	240 g
	Ex d and Ex e cable glands with RapidEx sealing system for all types of unarmoured cables and wire-braid-armoured cables (nickel-plated brass) Type 20PX2K-REX, M20 x 1.5	246649	240 g
	Ex d and Ex e cable glands with compound for all types of unarmoured cables and wire-braid-armoured cables (nickel-plated brass) Type 20PXSS2K, M20 x 1.5	109441	200 g
	Ex d and Ex e cable glands with RapidEx sealing system for all types of unarmoured cables and wire-braid-armoured cables (nickel-plated brass) Type 20PXSS2K-REX, M20 x 1.5	246605	200 g
	Ex d and Ex e cable gland for all types of unarmoured cables (SWA, wire-braid, tape) (nickel-plated brass) with a special compensating sliding seal (CDS) Type 20T3CDS, M20 x 1.5	246561	280 g
Cable glands			
	Ex e adaptor for ATEX – 20 °C to +50/60 °C	264252	270 g

Accessories

Figure	Description	Art. No.	Weight
Mounting accessories			
	L-bracket, stainless steel, (available for FL60, YL60, YA60)	210794	300 g
	Stainless steel L-bracket, long version	247371	280 g

Spare Parts

Figure	Description	Art. No.	Weight
Flange			
	Flange, ATEX, amber (available for FL60, YL60)	209407	1.08 kg
	Flange, ATEX, blue (available for FL60, YL60)	209408	1.08 kg
	Flange, ATEX, red (available for FL60, YL60)	209412	1.08 kg
	Flange, ATEX, yellow (available for FL60, YL60)	209413	1.08 kg
Lens glass			
	amber	209400	70 g
	blue	209401	70 g
	clear	209402	70 g
	green	209403	70 g
	red	209405	70 g
	yellow	209406	70 g
Spare PCB assembly kit			
	PCB YL60/C 5 J/24 V DC	222970	126 g
Fresnel lens			
	Fresnel lens, amber, spare	292060	180 g
	Fresnel lens, yellow, spare	292142	180 g
	Fresnel lens, matt, spare	292146	180 g
Shaped horn assembly kit			
	Shaped horn YA60/YL60/YA6S/YL6S spare ATEX	213457	105 g

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

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