#### Operating instructions

Additional languages r-stahl.com



# Audible and visual signalling device

Series YL60/3

– Save for future use! –



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### 1 General information

### 1.1 Manufacturer

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### 1.2 About these instructions

- Read these operating instructions, especially the safety notes, carefully before use.
- Observe all other applicable documents (see also chapter 1.3).
- ► Keep the operating instructions throughout the service life of the device.
- Make the operating instructions accessible to operating and maintenance staff at all times.
- Pass the operating instructions on to each subsequent owner or user of the device.
- Update the operating instructions every time R. STAHL issues an amendment.

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The original instructions are the German edition. They are legally binding in all legal affairs.

### 1.3 Further documents

• Data sheet

For documents in other languages, see r-stahl.com.

### 1.4 Conformity with standards and regulations

For certificates and declaration of conformity, see r-stahl.com.



## 2 Explanation of symbols

### 2.1 Symbols used in these operating instructions

Symbol	Meaning
i	Handy hint for making work easier
<b>DANGER!</b>	Dangerous situation which can result in fatal or severe injuries causing permanent damage if the safety measures are not complied with.
	Dangerous situation which can result in severe injuries if the safety measures are not complied with.
	Dangerous situation which can result in minor injuries if the safety measures are not complied with.
NOTICE!	Dangerous situation which can result in material damage if the safety measures are not complied with.

### 2.2 Symbols on the device

Symbol	Meaning
C €	CE marking according to the current applicable directive.
UK 68505 23486E00	UKCA marking according to the currently applicable directive.
<b>(Ex)</b> 02198E00	Device certified for hazardous areas according to the marking.
11048E00	Safety notes that must always be observed: The corresponding data and/or safety-related instructions contained in the operating instructions must be followed for devices with this symbol!
	Marking according to WEEE Directive 2012/19/EU

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Safety

Symbol	Meaning			
<b>∢</b> €	Audible signal			
<u>,</u> ,	Visual signal			
Ť	Earth connection			
1/2"	1/2" NPT thread			
3/4"	3/4" NPT thread			
M20	M20 metric thread			
M25	M25 metric thread			
2387/E00	Opening/closing the device			

### 3 Safety

The device has been manufactured according to the state of the art of technology while observing recognised safety-related rules. When using the device, it is nevertheless possible for hazards to occur to life and limb of the user or third parties or for the device, environment or material assets to be compromised.

- Use the device only
  - if it is not damaged
  - in accordance with its intended use, taking into account safety and hazards
  - in accordance with these operating instructions

The system operator is responsible for ensuring the safety of the system, device and operating personnel involved. For this purpose, they must observe the relevant national laws, standards and regulations (such as IEC/EN 60079-14, IEC/EN 60079-17 and IEC/EN 60079-19).

#### 3.1 Intended use

The signalling device is intended to provide audible and visual signals in the event of dangerous situations in work areas. It can be used indoors and outdoors and is intended for stationary mounting (wall/pole mounting).

It is explosion-protected equipment approved for use in hazardous areas of Zones 1 and 2, 21 and 22, and in safe areas.

"Intended use" includes complying with these operating instructions and the other applicable documents, e.g. the data sheet. All other uses are only intended after being approved by R. STAHL.



#### 3.2 Personnel qualification

Qualified specialist personnel is required to perform the activities described in these operating instructions. This primarily applies to work in the following areas

- Product selection and modification
- Mounting/dismounting the device
- Installation
- Commissioning
- Maintenance, repair, cleaning

Specialists who perform these activities must have a level of knowledge that meets applicable national standards and regulations.

Additional knowledge is required for any activity in hazardous areas! R. STAHL recommends having a level of knowledge equal to that described in the following standards:

- IEC/EN 60079-14 (Electrical installations design, selection and erection)
- IEC/EN 60079-17 (Electrical installations inspection and maintenance)
- IEC/EN 60079-19 (Equipment repair, overhaul and reclamation)

#### 3.3 Residual risks

#### 3.3.1 Explosion hazard

To reduce the risk in hazardous areas, it is essential to note the following points.

- Perform all work steps in hazardous areas with the utmost care at all times!
- Transport, store, plan, mount and operate the device exclusively in compliance with the technical data (see the "Technical data" chapter).

Possible hazards ("residual risks") can be categorized according to the following causes:

#### Mechanical damage

The device may be damaged during transport, mounting or commissioning. This kind of damage may, for example, render the device's explosion protection partially or completely ineffective. This may result in explosions causing serious or even fatal injury.

- Transport the device only in its original packaging or in equivalent packaging.
- Unpack the device carefully to avoid damage.
   Make sure that no parts come loose inside the device.
- Check the packaging and the device for damage. Report any damage to R. STAHL immediately. Do not commission a damaged device.
- Transport and store the device in its original packaging in a dry place (with no condensation), and make sure that it is stable and protected against the effects of vibrations and knocks.

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#### Excessive heating or electrostatic charge

Operation outside of approved conditions or improper cleaning can cause the device to heat up severely or to become electrostatically charged, causing it to produce sparks. This may result in explosions causing serious or even fatal injury.

- Operate the device within the prescribed operating conditions only (see the label on the device and the "Technical data" chapter).
- Do not use the device in strong charge-generating environments.
- Avoid friction and flow of particle streams.
- Clean the device with a damp cloth only.

# Improper project engineering, mounting, installation, commissioning, maintenance or cleaning

Basic work such as installation, commissioning, maintenance or cleaning of the device must be performed only in accordance with the applicable national regulations of the country of use and only by qualified persons. Otherwise, the explosion protection may be rendered ineffective. This may result in explosions causing serious or even fatal injury.

- Only have mounting, installation, commissioning and maintenance work performed by qualified and authorised persons (see chapter 3.2).
- Prior to commissioning, check the device is correctly mounted (see chapter 7).
- Only fit the device in the permitted assembly position (see chapter 6.1).
- Install mechanical built-in components such as cable glands, stopping plugs and breathers before mounting the signalling device on the ceiling or wall.
- Do not damage the enclosure, built-in components and seals during mounting.
- Observe the tightening torques for cable entries and stopping plugs (see chapter 6).
- Always use safety screws to mount the visual flange and enclosure cover.
- Keep the threads of the flange, cover and enclosure free of dirt and ensure they are always sufficiently greased.
- Do not change or modify the device.
- Repair work on the device must be performed only by R. STAHL.
- Gently clean the device with a damp cloth only do not use scratching, abrasive or aggressive cleaning agents or solutions.
- Install and commission an uninterruptible power supply (UPS) as auxiliary equipment.



#### 3.3.2 Risk of injury

#### Falling devices or components

The heavy device or components can fall during transport and mounting, causing severe injury to persons in the form of bruises and contusions.

- Adhere to the operator's safety regulations, e.g. regarding the use of personal protective equipment (safety shoes).
- Use transporting and lifting equipment suitable for the size and weight of the device when transporting and mounting it.
- Observe the weight and the maximum load-bearing capacity of the device; see specifications on the shipping label or refer to the "Technical data" chapter.
- Use suitable mounting materials for mounting.

#### Insufficient personal protective equipment when in direct contact with the device

Anyone not using personal protective equipment when near the device may be injured due to the audible and visual alarm signals emitted by the device.

- Use personal protective equipment (safety goggles, hearing protection) during mounting, installation, commissioning and maintenance.
- Switch off the device before maintenance or cleaning.

### 4 Transport and storage

- Transport and store the device carefully and in accordance with the safety notes (see the "Safety" chapter).
- Note the preferred direction; see specifications on the packaging.

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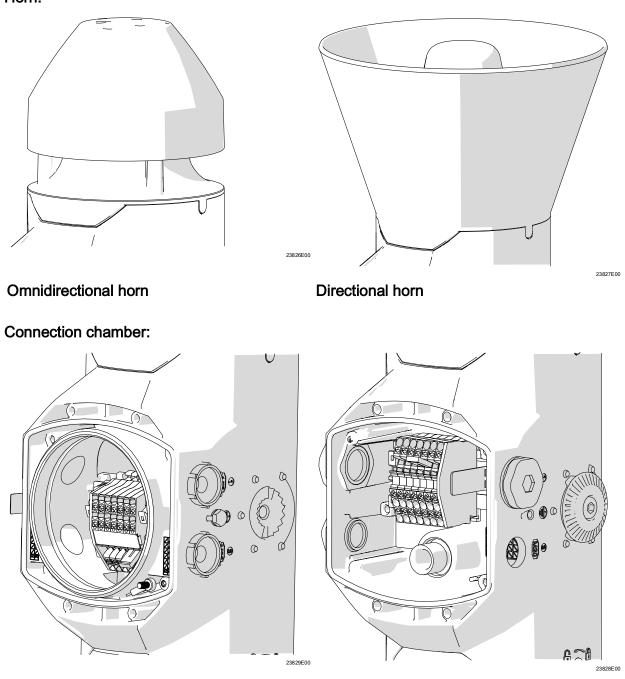


## 5 Product selection and modification

#### Variants

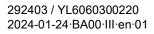
The following variants of the Series YL60/3 signalling device are available:

Horn:



Ex d connection chamber

Ex e connection chamber





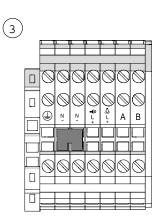
#### Connection terminals

### Screw terminal

Clamping range: 1 x 0.5 to 2.5 mm<sup>2</sup> (finely stranded with and without core end sleeve) 1 x 0.5 to 4 mm<sup>2</sup> (solid) (2 spare clamping units are available for each pole)
The two connectional terminals on the neutral conductor/negative potential (DC) are bridged using a plug-in jumper.

### Stripping length:

9 mm



N-	= neutral conductor/ negative potential (DC)
L+	= phase/positive potential (DC)
A, B	= control signals
	= protective conductor



#### Push-in terminal

Clamping range:

 $1 \times 0.5$  to  $2.5 \text{ mm}^2$  (finely stranded with and without core end sleeve)

 $1 \times 0.5$  to  $4 \text{ mm}^2$  (solid)

(2 spare clamping units are available for each pole)

The two connectional terminals on the neutral conductor/negative potential (DC) are bridged using a plug-in jumper.

#### Stripping length:

10 mm

3	N-	= neutral conductor/ negative potential (DC)
	L+	= phase/positive potential (DC)
	A, B	= control signals
		= protective conductor
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The following chapters take only one variant as an example and do not cover all variants.



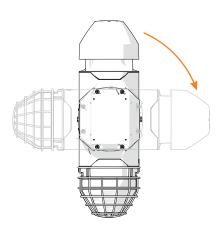
### 6 Mounting and installation

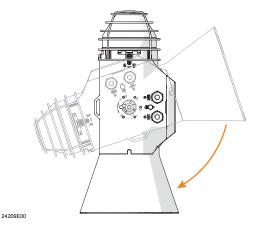
#### 6.1 Mounting/dismounting

- **DANGER! Explosion hazard due to inadequate sealing on metal cable glands!** Non-compliance results in severe or fatal injuries.
  - Use a sealing ring (CMP, polyamide) for metal cable glands and Ex d/Ex e enclosures.
  - Comply with a tightening torque from 2.2 to 2.5 Nm.
  - Observe the manufacturer documentation for the screw connections and stopping plugs.
- Mount the device carefully and only in accordance with the safety notes (see the "Safety" chapter).
- Read through the following installation conditions and assembly instructions carefully and follow them precisely.

#### 6.1.1 Operating position

For the Series YL60/3 signalling device, the following mounting directions are preferred for outdoor use:





**Omnidirectional horn** 

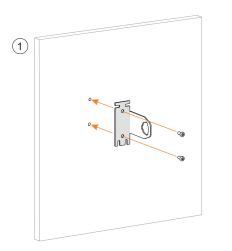
**Directional horn** 

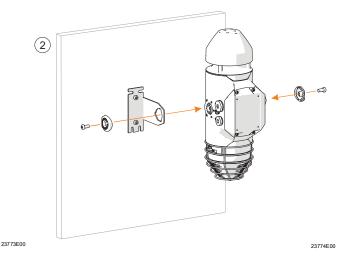


#### 6.1.2 Wall mounting

#### Mounting the L-bracket

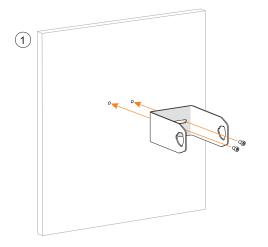
When operating the signalling device with increased vibration requirements ("harsh operation", IEC/EN 60598-1), the L-bracket must be used as a retaining element.

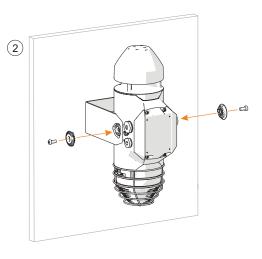




- Mount the L-bracket on the wall (1).
- Place the lock in the opening provided.
- Secure the signalling device with the M8 x 16 cheese-head screws (2) provided (tightening torque 8 Nm).
- ▶ Fit the locking cover provided on the unused mounting fixture (one increment = 20° angle).

#### Mounting the U-bracket



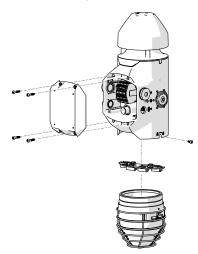


- Mount the U-bracket on the wall (1).
- Place the locking cover in the opening provided.
- Secure the signalling device with the M8 x 16 cheese-head screws (2) provided (tightening torque 8 Nm) (one increment = 20° angle).

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#### 6.1.3 Dismounting



- Disconnect the device from the power supply before dismounting.
  Dismantle the device into its component parts, as shown in the figure.



### 6.2 Installation

#### 6.2.1 Conductor connection

- Select suitable conductors that do not exceed the permissible heating temperature within the enclosure (see the "Technical data" chapter).
- Ensure that conductors have the specified cross sections (see the "Technical data" chapter).
- Guide the conductor insulation to the terminals (for the stripping length, see the "Technical data" chapter).
- Do not damage the conductor (e.g. by denting it) or squeeze it when stripping the insulation.
- Fit the core end sleeves properly using a suitable tool.
- Ensure that the conductors are fitted securely.
- Note the tightening torque for the screw terminal.

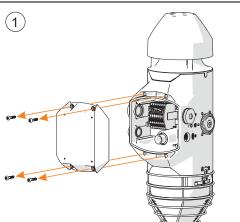
### 6.2.2 Connection and configuration

The device has the following customer-side access points:

- 1 Connection chamber for wiring/basic configuration
- 2 Advanced configuration options via configuration PCB

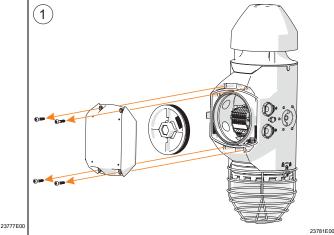
### 6.2.2.1 Opening the enclosure

For an Ex e connection chamber:



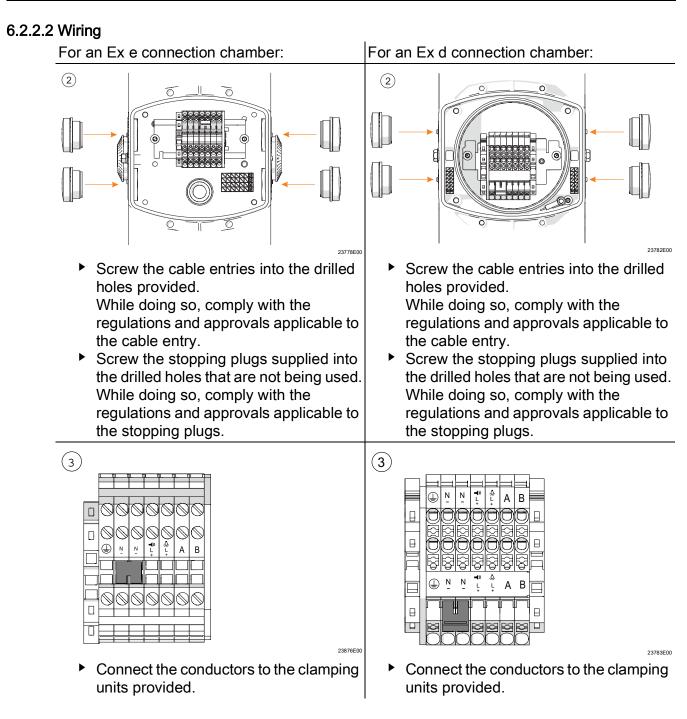
 Undo 4 x TX20 screws (AltracsPlus<sup>®</sup>) and remove the cover plate. The cover plate is secured to the device using a retaining cable.

For an Ex d connection chamber:



- Undo 4 x TX20 screws (AltracsPlus<sup>®</sup>) and remove the cover plate. The cover plate is secured to the device using a retaining cable.
- Undo the M95 Ex d threaded cover to open the connection chamber.





Audible and visual signals can be wired separately (individual wiring) or combined (plug-in jumper between L ♣ and L ◄ ).

The N-conductors for the audible and visual signalling are connected internally and require the same reference potential.



#### 6.2.2.3 Basic configuration

Use the preconfigured functions (default setting) in the connection area via A/B control signals for static signal adaptation (using the plug-in jumper provided) or dynamic signal adaptation (using separate wiring).



The plug-in jumper can be modified depending on the required configuration setting (individual pins can be disconnected).

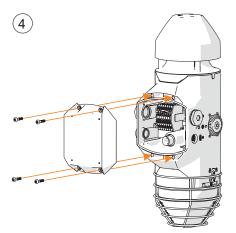
The function for switching between audible/visual signals can be activated/deactivated separately (see chapter 6.2.3). Both switching functions are active on delivery.

<b>U</b> ( <b>)</b> /				le setti hapter	ngs 15.3 for the tone table)
A B			А	В	
0	0	Continuous light	0	0	Tone 1
1	0	Flashing light (double flash, 1 Hz)	1	0	Tone 2
0	1	Blinking light (1 Hz)	0	1	Tone 3
1	1	Rotating light (120 rpm)	1	1	Tone 4

#### 6.2.2.4 Closing the enclosure

For an Ex e connection chamber:

- DANGER! Explosion hazard due to a missing or incorrectly attached cover plate! Non-compliance results in severe or fatal injuries.
  - Make sure that the O-ring is present in the groove provided and that it is not damaged.
  - Ensure that the cover plate is always flush.



 Close the connection chamber using the cover plate and tighten the 4 x TX20 screws (tightening torque 2.2 to 2.5 Nm).



For an Ex d connection chamber:



DANGER! Explosion hazard due to a missing or incorrectly attached M95 threaded cover!

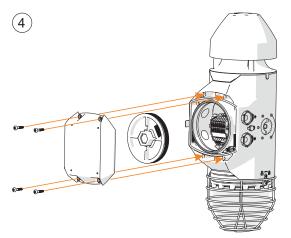
Non-compliance results in severe or fatal injuries.

Always fit the M95 threaded cover because this is necessary to meet the requirements of the type of protection (tightening torque 8 Nm).



**DANGER! Explosion hazard due to a missing or incorrectly attached cover plate!** Non-compliance results in severe or fatal injuries.

- Make sure that the O-ring is present in the groove provided and that it is not damaged.
- Ensure that the cover plate is always flush.



- Close the connection chamber using the M95 threaded cover (tightening torque 8 Nm).
- Close the connection chamber using the cover plate and tighten the 4 x TX20 screws (tightening torque 2.2 to 2.5 Nm).

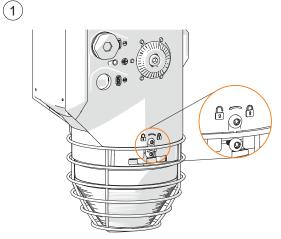


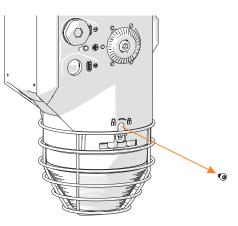
#### 6.2.3 Advanced configuration options (optional) (see chapter 15.1 for general settings)

#### 6.2.3.1 Opening the enclosure

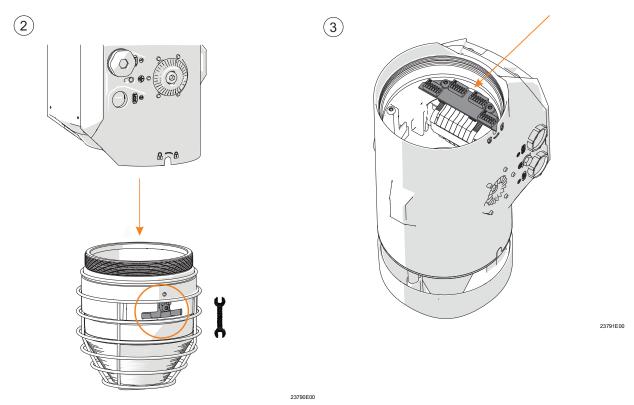
NOTICE! Malfunction or device damage when opening the audible flange! Non-compliance can result in material damage.

Do not open the audible flange.





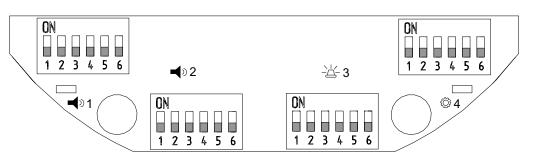
Remove the TX20 safety screw from the flange. Note the lock marking while doing so.



Open the visual flange without dismounting the protective cage. You may need to use the WAF10 open-ended spanner as a lever to help you with this (see marking).

Access to the configuration PCB is enabled.





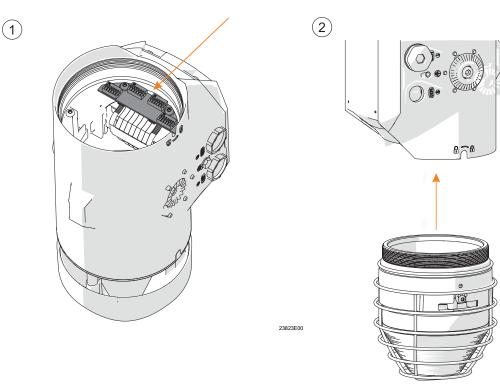
- Configure the DIP switches present according to the necessary requirements. Four DIP switches are available for this:
  - 1. Audible settings (tone 1/3/4) (see chapter 15.3 for the tone table)
  - 2. Audible settings (tone 2) (see chapter 15.3 for the tone table)
  - 3. Visual settings (see chapter 15.2 for the light table)
  - 4. General settings (see chapter 15.1 for general settings)

#### 6.2.3.2 Mounting the visual flange

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DANGER! Explosion hazard due to a missing or incorrectly attached enclosure cover! Non-compliance results in severe or fatal injuries.

- Observe the installation note in the data sheet.
- Make sure that the O-ring is inserted and is not damaged.
- Lock the visual flange fully up to the visible edge.



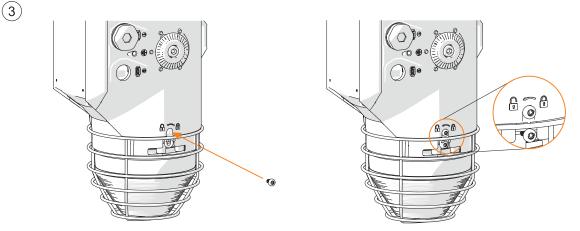
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► Place the visual flange on the enclosure and tighten it manually as far as it will go (tightening torgue 8 Nm).

You may need to use the WAF10 open-ended spanner as a lever to help you with this.





Secure the visual flange with the TX20 safety screw (tightening torque 1.6 Nm).

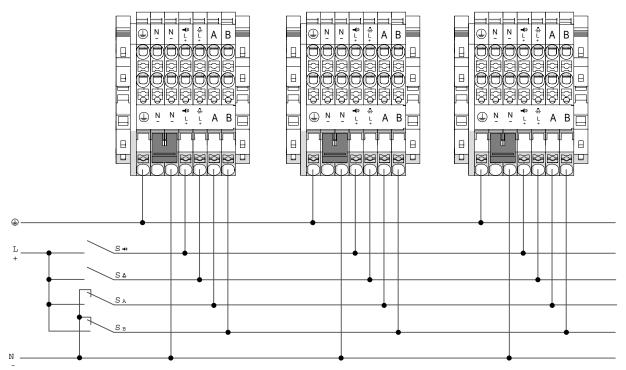
### 7 Commissioning

Before commissioning, carry out the following checks:

- Check the mounting and installation.
- Check the device for damage.
- Remove any foreign objects.
- If necessary, clean the connection chamber.
- Check whether the conductors have been inserted correctly.
- Check whether the conductor are securely fitted using the cable holders provided.
- Monitor whether all screws and nuts have been tightened securely.
- Monitor whether all drilled holes are closed.
- Monitor whether all cable entries and stopping plugs have been tightened securely.
- Check whether all conductors are securely clamped.
- Check whether the line voltage and the rated operational voltage are the same.
- Check whether the permissible cable diameters have been used for the cable entries.
- Check whether the device has been closed according to regulations.
- Put the device into operation according to the applicable national regulations and the safety notes in these operating instructions ("Safety" chapter).



### 7.1 Commissioning multiple devices



#### Example: Connection diagram for combining multiple devices

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- Audible and visual signals can be wired separately (individual wiring) or combined (plug-in jumper between L ♣ and L ◄ ).
- The N-conductors for the audible and visual signalling are connected internally and require the same reference potential.
- If electrical conductors are connected to input signals A and/or B, these conductors must always be connected to **a potential**.
  - to the positive potential of the signalling device's input voltage, corresponding to a logic "1"
  - to the negative potential of the signalling device's input voltage, corresponding to a logic "0".

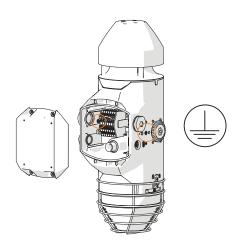
The signalling device has an integrated back-up fuse.

If multiple devices are connected, note the total power. The ex-factory configuration is set to "maximum" and may need to be adjusted.



### 7.2 Earthing/protective conductor

• The internal earth connection is the primary connection point. The external connection is an additional equipotential bonding conductor and is used where local code or authorities permit or require such a conductor.



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### 8 Maintenance, overhaul, repair

Observe the relevant national standards and regulations in the country of use, e.g. IEC/EN 60079-14, IEC/EN 60079-17, IEC/EN 60079-19.

#### 8.1 Maintenance

Check the following points in addition to the national regulations:

- Whether the clamping screws holding the electrical lines fit securely
- Whether the device has cracks or other visible signs of damage
- Whether the seal shows signs of ageing or damage (completely replace enclosure components with damaged seal)
- Whether the device is clean inside and out
- Whether the permissible temperatures are complied with (according to EN 60079)
- Whether the cable entry is intact and securely tightened
- · Whether the cables and electrical lines show signs of ageing and damage
- · Whether the device is used as intended and functions properly

#### 8.2 Maintenance

Perform overhaul of the device according to the applicable national regulations and the safety notes in these operating instructions ("Safety" chapter).

#### 8.3 Repair

Repair work on the device must be performed only by R. STAHL.



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#### Returning the device

- Only return or package the devices after consulting R. STAHL! Contact the responsible representative from R. STAHL.
- R. STAHL's customer service is available to handle returns if repair or service is required.
- Contact customer service personally.

or

- Go to the r-stahl.com website.
- ► Under "Support" > "RMA" > select "RMA-REQUEST".
- Fill out the form and send it. You will automatically receive an RMA form via email. Please print this file off.
- Send the device along with the RMA form in the packaging to R. STAHL Schaltgeräte GmbH (refer to chapter 1.1 for the address).

### 10 Cleaning

- Switch off the device before cleaning it.
- Check the device for damage before and after cleaning it. Decommission damaged devices immediately.
- Devices located in hazardous areas may only be cleaned with a damp cloth to avoid electrostatic charge.
- When cleaning with a damp cloth, use water or mild, non-abrasive, non-scratching cleaning agents.
- Do not use abrasive cleaning agents or solvents.

### 11 Disposal

- Observe national, local and statutory regulations regarding disposal.
- Separate materials for recycling.
- Ensure environmentally friendly disposal of all components according to statutory regulations.

### 12 Accessories and spare parts

**NOTICE!** Malfunction or damage to the device due to the use of non-original components. Non-compliance can result in material damage.

 Use only original accessories and spare parts from R. STAHL Schaltgeräte GmbH (see data sheet).



## 13 Appendix A

### 13.1 Technical data

Explosion protection					
Global (IECEx)					
Gas and dust	IECEx EPS 22.0046X				
	Ex db IIC T4/T6 <sup>*)</sup> Gb				
	Ex db eb IIC T4/T6 <sup>*)</sup> Gb				
	Ex tb IIIC T80/T100 °C <sup>*)</sup> Db				
Europe (ATEX, UKEX)					
Gas and dust	EPS 22 ATEX 1 224 X, EPS 22 UKEX 1 2	224 X			
	₲ II 2 G Ex db IIC T4/T6 <sup>*)</sup> Gb				
			_		
	*) Temperature class	T6 <sup>3)</sup>	T4		
	Max. surface temperature (tb)	T80 °C	T100 °C		
	Ambient temperature range	-60 to +40 °C <sup>1)</sup>	-60 to +70 °C <sup>2)</sup>		
	<sup>1)</sup> Loop in/loop out wiring up to max. 16 A				
	<sup>2)</sup> Loop in/loop out wiring up to max. 16 A				
	the connection line and cable entries mus temperature of $\geq$ +90 °C.	t be approved for	a service		
	$^{(3)}$ Not for the XENON variant				
Special conditions "X"	* Not for the XENON Variant				
	Popair work on flamoproof joints is only p	ormissible in acco	ordance with the		
	Repair work on flameproof joints is only permissible in accordance with the values specified by the manufacturer.				
	The protective covers and loudspeaker horns must be installed so that they are protected against electrostatic charge.				
	The T6/T80 °C temperature class is not permissible for the XENON variant with plastic lens.				
Certifications and certific	cates				
Certifications	IECEx, ATEX, UKEX, for other certificates	s, see r-stahl.com			



Technical data				
Product weight	6.7 kg			
Electrical data	•			
Rated operational voltage	Horn – XENON:	12 to 27.2 V D 133 to 272 V D 110 to 240 V A	C	
	Horn – LED:	21.1 to 27.2 V 133 to 272 V D 110 to 240 V A	C	
Average input power/	24 V DC:			
max. current consumption		Max. current consumption [mA]	Input power [W]	Max. input powe (temporary) [W]
	Horn – XENON 5 J	1350	28	40
	Horn – LED	2000	34	50
	XENON 5J	350	8	-
	LED	1000	14	-
	Horn	1000	20	32
	110 V AC:	Max. current	Input power	Max. input powe
		consumption [mA]	[W]	(temporary) [W]
	Horn – XENON 5 J	533	28	40
	Horn – LED	546	34	50
	XENON 5J	117	8	_
	LED	334	14	_
	Horn	422	20	28
	230 V AC:			
		Max. current consumption [mA]	Input power [W]	Max. input powe (temporary) [W]
	Horn – XENON 5 J	261	28	40
	Horn – LED	302	34	50
	XENON 5J	75	8	-
	LED	183	14	-
	Horn	235	20	28

Appendix A



#### **Technical data** Ambient conditions Functional ambient Min. -40 °C See certificate for max. ambient temperature temperature range Mechanical data Degree of protection IP66 (IEC 60598-1) Material Enclosure Aluminium EN AC-44300, corrosion-resistant (anti-static paint) Enclosure colours Red (RAL 3020) Horn PBT/PC, flame-retardant, UV-stabilised Calotte cover Polycarbonate Mounting Bracket Stainless steel 1.4404 (316L), seawater-resistant Short-circuit Integrated back-up fuse protection Accessories Stopping plug: Ex de: 2 x M20/2 x M25 Ex d: 2 x M20/2 x 1/2" NPT Ex d: 2 x M25/2 x 3/4" NPT Cable gland: Ex de: 1 x M20/1 x M25 Mounting Bracket: L-/U-bracket Acoustic data Volume $\leq$ 120 dB(A) at 1 m (directional) ≤ 114 dB(A) at 1 m (omnidirectional) Pole diagram 0° 6dB 30° -30° OdF -6dB 60° -60° -12dB -18dB -24dB 90 -90° -120° 120 150° -150° 180°

24093E00

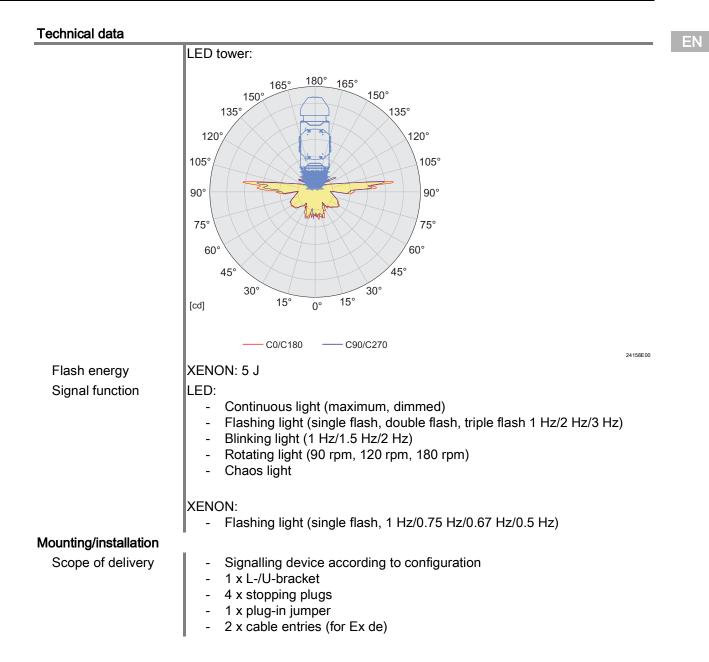
292403 / YL6060300220 2024-01-24·BA00·III·en·01



- ver

uminous characteristic					
Effective luminous	Туре		LED tower		XENON
intensity	Function		Flashing 1 Hz	Blinking 1 Hz	Flashing 1 Hz
	Colour	red	128 cd	165 cd	24 cd
		amber	185 cd	239 cd	87 cd
		blue	95 cd	123 cd	25 cd
		green	93 cd	120 cd	23 cd
		clear	360 cd	465 cd	136 cd
		opal	150 cd	194 cd	98 cd
		yellow	298 cd	385 cd	125 cd
		red/white	100 cd	129 cd	-
Luminous flux	Туре		LED tower		•
	Function		Continuou	s light	
	Colour	red	315 lm		
		amber	635 lm		
		blue	162 lm		
		green	124 lm		
		clear	1061 lm		
		opal	784 lm		
		yellow	984 lm		
		red/white	241 lm		
Pole diagram	XENON:	·	•		
	135° 120° 105° 90° 75° 60° 45°	500		35° 120° 100° 105° 90° 75° 60° 5°	
	[cd]	12.00			



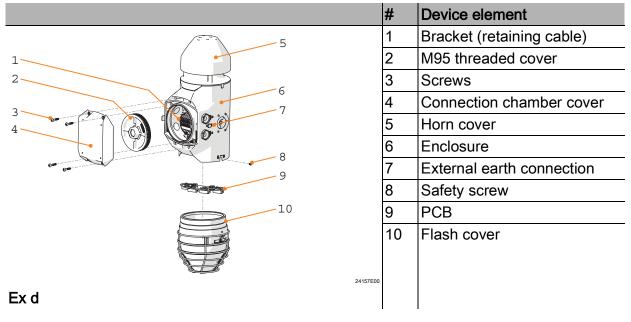


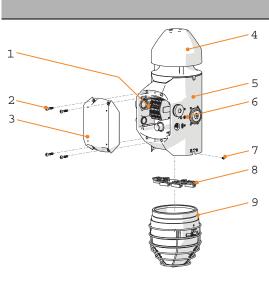
For further technical data, see r-stahl.com.



### 14 Appendix B

### 14.1 Device design



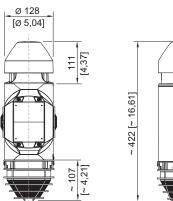


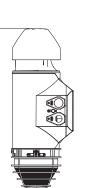
	#	Device element
	1	Bracket (retaining cable)
	2	Screws
	3	Connection chamber cover
	4	Horn cover
	5	Enclosure
	6	External earth connection
	7	Safety screw
	8	PCB
	9	Flash cover
23772E00		

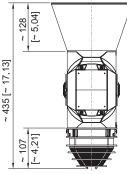


### 14.2 Dimensions/fastening dimensions

Dimensional drawings (all dimensions in mm [inch]) – Subject to change

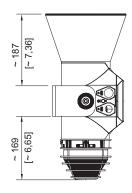






~ 137 [~ 5,39]

Ø 211,80 [Ø 8,34]



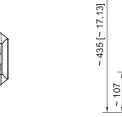


23794E00

23795E00

**Omnidirectional horn** 

**Directional horn** 







### 15 Appendix C

(Advanced configuration options)

#### 15.1 General settings

All switches are set to OFF ex-factory.

DIP switch 4

1	2	3	4	5	6	Function
OFF						Switches the device function on via the input voltage
ON						Switches the device function on via the B control signal (min. 10.8 V)
	OFF					A/B control for audible signal active
	ON					A/B control for audible signal inactive (visual signal is fixed)
		OFF	OFF			Max. visual signal power (LED)
		ON	OFF			75% visual signal power (LED) (max. current consumption 750 mA)
		OFF	ON			50% visual signal power (LED) (max. current consumption 500 mA)
		ON	ON			25% visual signal power (LED) (max. current consumption 250 mA)
				OFF	OFF	Max. audible signal power
				ON	OFF	-6 dB(A) ±1.5 dB (max. current consumption 500 mA (audible))
				OFF	ON	-12 dB(A) ±2.0 dB (max. current consumption 250 mA (audible))
				ON	ON	-18 dB(A) ±2.5 dB (max. current consumption 125 mA (audible))



### 15.2 Light table

If the device activation via the B control signal is active (see chapter 15.1 for general settings), only two channels are available via the A control signal. DIP switch 3.6 is used to activate/deactivate the switching function of the visual signal via the A/B control signal.

#### Visual settings

DIP switch 3

					LED towe	r (hexagon)	), monochro	ome				
					Channel 1		Channel 2		Channel 3	3	Channel 4	
SV	٧3				А	В	А	В	А	В	A	В
1	2	3	4	5	0	0	1	0	0	1	1	1
0	0	0	0	x	Continuou	ıs light	Flashing light (double flash, 1 Hz)		Blinking lig	Blinking light 1.0 Hz		ght
1	0	0	0	x	Blinking lig	ght 1.0 Hz	Continuou (dimmed)	s light	Blinking lig	ght 1.5 Hz	Blinking lig	ght 2.0 Hz
0	1	0	0	x	Blinking lig	ght 1.5 Hz	Continuou	s light	Blinking lig	ght 1.0 Hz	Flashing li (triple flas	0
1	1	0	0	х	Blinking lig	ght 2.0 Hz	Continuou	s light	Blinking li	ght 1.0 Hz	Flashing li (triple flas	
0	0	1	0	х	Flashing li (single flas	•	Continuou	s light	Flashing li (double fla	•	Flashing li (triple flas	•
1	0	1	0	х	Flashing li (double fla	-	Continuou	s light	Flashing li (triple flas	•	Flashing light (triple flash, 2 Hz)	
0	1	1	0	х	Flashing li (triple flas		Continuous light		Flashing li (triple flas		Flashing li (single flas	•
1	1	1	0	х	Flashing li (single flas	0	Continuous light		Flashing li (double fla		Flashing li (triple flas	0
0	0	0	1	х	Continuou	is light	Rotating light 90 rpm		Rotating li 120 rpm	ght	Rotating li 180 rpm	ght
1	0	0	1	х	Rotating li 90 rpm	ght	Continuou	s light	Blinking lig	ght 1.0 Hz	Blinking lig	ght 2.0 Hz
0	1	0	1	х	Rotating li 120 rpm	ght	Continuou	s light	Blinking lig	ght 1.0 Hz	Blinking lig	ght 2.0 Hz
1	1	0	1	х	Rotating li 180 rpm	ght	Continuou	s light	Blinking lig	ght 1.0 Hz	Blinking lig	ght 2.0 Hz
0	0	1	1	х	Constantly flashing light		Continuou	s light	Chaos ligh	nt 1	Chaos ligh	nt 2
1	0	1	1	х	Chaos light 1		Continuou	Continuous light		ight h, 1 Hz)	Chaos ligł	nt 2
0	1	1	1	х	Chaos ligh	nt 2	Continuous light		Flashing light (single flash, 1 Hz)		Flashing li (triple flas	•
1	1	1	1	x	Continuou	ıs light	Rotating li 90 rpm	ght	Flashing li (triple flas	•	Chaos ligh	nt 1



					LED tower (hexagon	). monochrome				
					B = RI (switching of the device function via B control signal active (see chapter 15.1 for general settings))					
SV	V3				A	A				
1	2	3	4	5	0	1				
0	0	0	0	x	Continuous light	Flashing light (double flash, 1 Hz)				
1	0	0	0	x	Blinking light 1.0 Hz	Continuous light (dimmed)				
0	1	0	0	х	Blinking light 1.5 Hz	Continuous light				
1	1	0	0	x	Blinking light 2.0 Hz	Continuous light				
0	0	1	0	x	Flashing light (single flash, 1 Hz)	Continuous light				
1	0	1	0	х	Flashing light (double flash, 1 Hz)	Continuous light				
0	1	1	0	x	Flashing light (triple flash, 1 Hz)	Continuous light				
1	1	1	0	х	Flashing light (single flash, 2 Hz)	Continuous light				
0	0	0	1	х	Continuous light	Rotating light 90 rpm				
1	0	0	1	x	Rotating light 90 rpm	Continuous light				
0	1	0	1	х	Rotating light 120 rpm	Continuous light				
1	1	0	1	x	Rotating light 180 rpm	Continuous light				
0	0	1	1	х	Constantly flashing light	Continuous light				
1	0	1	1	x	Chaos light 1	Continuous light				
0	1	1	1	x	Chaos light 2	Continuous light				
1	1	1	1	x	Continuous light	Rotating light 90 rpm				



					XENON										
Channel 1					Channel 1		Channel 2		Channel 3		Channel 4				
SW3		_	А	В	А	В	А	В	А	В					
1	2	3	4	5	0	0	1	0	0	1	1	1			
0	0	х	х	х	5 J; 1.00 ŀ	łz	5 J; 0.75 Hz		5 J; 0.67 H	łz	5 J; 0.50 ⊦	lz			
1	0	х	х	х	5 J; 0.75 H	łz	5 J; 0.67 Hz		5 J; 0.50 Hz		5 J; 1.00 Hz				
0	1	х	х	х	5 J; 0.67 Hz		5 J; 0.50 Hz		5 J; 1.00 Hz		5 J; 0.75 ⊦	lz			
1	1	х	х	х	5 J; 0.50 H	łz	5 J; 1.00 F	łz	5 J; 0.75 Hz		5 J; 0.67 Hz				

					XENON				
					B = RI				
					(switching of the device function via				
					B control signal active				
					(see chapter 15.1 for	(see chapter 15.1 for general settings))			
SV	SW3				A	A			
1	2	3	4	5	0	1			
0	0	х	х	х	5 J; 1.00 Hz	5 J; 0.75 Hz			
1	0	х	х	х	5 J; 0.75 Hz	5 J; 0.67 Hz			
0	1	х	х	х	5 J; 0.67 Hz	5 J; 0.50 Hz			
1	1	х	х	х	5 J; 0.50 Hz	5 J; 1.00 Hz			



#### 15.3 Tone table

If the device activation via the B control signal is active (see chapter 15.1 for general settings), only two channels (tones) are available via the A control signal is active (see chapter 15.1 for general settings). general settings), only two channels (tones) are available via the A control signal.

Audible settings DIP switches 1 and 2

	-										
						Tone I	Tone no.				
						Tone 1	Tone 2	Tone 3	Tone 4		
						A = 0	A = 1	A = 0	A = 1		
						B = 0	B = 0	B = 1	B = 1		
Sw	/itch	n po	ositi	on		Swi-	Swi-	Corresponds			
1	2	3	4	5	6	tch 1	tch 2	to swit	ch 1		
0	0	0	0	0	0	1	_	5	11		
1	0	0	0	0	0	2	-	4	11		
0	1	0	0	0	0	3	-	5	11		
1	1	0	0	0	0	4	-	2	11		
0	0	1	0	0	0	5	-	1	14		
1	0	1	0	0	0	6	-	1	11		
0	1	1	0	0	0	7	-	28	11		
1	1	1	0	0	0	8	_	7	11		
0	0	0	1	0	0	9	-	1	11		
1	0	0	1	0	0	10	-	1	11		
0	1	0	1	0	0	11	-	31	15		
1	1	0	1	0	0	12	-	1	11		
0	0	1	1	0	0	13	-	1	14		
1	0	1	1	0	0	14	-	1	11		
0	1	1	1	0	0	15	-	31	11		
1	1	1	1	0	0	16	-	1	11		
0	0	0	0	1	0	17	-	31	11		
1	0	0	0	1	0	18	-	10	11		
0	1	0	0	1	0	19	-	28	11		
1	1	0	0	1	0	20	-	8	11		
0	0	1	0	1	0	21	-	28	11		
1	0	1	0	1	0	22	-	1	11		
0	1	1	0	1	0	23	-	22	11		
1	1	1	0	1	0	24	-	8	11		
0	0	0	1	1	0	25	-	22	11		
1	0	0	1	1	0	26	-	7	11		
0	1	0	1	1	0	27	-	31	15		
1	1	0	1	1	0	28	_	8	11		
0	0	1	1	1	0	29	_	1	11		
1	0	1	1	1	0	30	-	26	11		
0	1	1	1	1	0	31	_	15	11		
1	1	1	1	1	0	32	-	1	11		

						Tone	no.		
						Tone 1	Tone 2	Tone 3	Tone 4
						A = 0	A = 1	A = 0	A = 1
						B = 0	B = 0	B = 1	B = 1
Sv	vitch	n po	ositi	on		Swi-	Swi-		ponds
1	2	3	4	5	6	tch 1	tch 2	to swit	ch 1
0	0	0	0	0	1	33	_	55	35
1	0	0	0	0	1	34	-	1	11
0	1	0	0	0	1	35	-	56	35
1	1	0	0	0	1	36	-	1	33
0	0	1	0	0	1	37	-	1	33
1	0	1	0	0	1	38	-	1	11
0	1	1	0	0	1	39	-	1	11
1	1	1	0	0	1	40	_	1	11
0	0	0	1	0	1	41	-	1	11
1	0	0	1	0	1	42	_	1	11
0	1	0	1	0	1	43	-	1	11
1	1	0	1	0	1	44	-	1	11
0	0	1	1	0	1	45	-	1	11
1	0	1	1	0	1	46	-	1	11
0	1	1	1	0	1	47	-	1	11
1	1	1	1	0	1	48	_	49	11
0	0	0	0	1	1	49	-	1	11
1	0	0	0	1	1	50	-	1	11
0	1	0	0	1	1	51	-	1	11
1	1	0	0	1	1	52	-	53	11
0	0	1	0	1	1	53	-	1	11
1	0	1	0	1	1	54	-	1	11
0	1	1	0	1	1	55	-	1	11
1	1	1	0	1	1	56	-	1	11
0	0	0	1	1	1	57	-	58	28
1	0	0	1	1	1	58	-	1	28
0	1	0	1	1	1	59	_	1	11
1	1	0	1	1	1	60	_	1	11
0	0	1	1	1	1	61		5	11
1	0	1	1	1	1	62	_	5	11
0	1	1	1	1	1	63	_	5	11
1	1	1	1	1	1	64	-	5	11



#### Description of tone no. Tone no. Horn attachment Description of tone Note Omni Uni dB(A) dB(A) UK, BS5839-1 1 108.2 114.7 Alternating tones at 2 Hz (800 Hz/1000 Hz, (fire alarm/ -0.25s-0.25s-0.25 s/0.25 s) level crossing) 2 104.6 114.4 Alternating tones at 2 Hz (2500 Hz/3100 Hz, -0.25s-0.25s-24055E0 0.25 s/0.25 s) 3 107.6 114.4 Alternating tones UK, BS5839-1 at 4 Hz (800 Hz/1000 Hz, (fire alarm, -0.125s-0.125s-24056E0 0.125 s/0.125 s) increased urgency/ level crossing) 4 104.3 114.3 Alternating tones -0.125s+0.125sat 4 Hz (2500 Hz/3100 Hz, 24057E00 0.125 s/0.125 s) 5 109.3 112.0 Alternating tones France, at 2 Hz (440 Hz/554 Hz, AFNOR NF -0.1s+--0.4s 22575E0 0.4 s/0.1 s) S 32-001 (fire alarm) 6 109.7 112.7 Alternating tones at 1 Hz (430 Hz/470 Hz, 22576E 0.5 s/0.5 s) 7 107.0 113.9 Alternating tones at 7.69 Hz -0.5s (800 Hz/1000 Hz, 0.13 s/0.13 s) 8 103.8 114.5 Alternating tones at 14.28 Hz -0.5s-(2500 Hz/3200 Hz, 0.07 s/0.07 s) 9 109.1 111.9 Alternating tones Sweden, at 0.5 Hz (440 Hz/554 Hz) SS 031711 22579E00 (alarm, shutdown) 10 99.7 109.0 Continuous tone Sweden, 22580E0 (700 Hz) SS 031711 (all clear) 11 108.8 115.1 UK, PFEER Continuous tone 22580E0 (1000 Hz) (gas alarm)



Tone no.	Horn atta	chment	Description of tone		Note
	Omni dB(A)	Uni dB(A)	Ť		
12	106.7	115.1		Alternating tones at 0.16 Hz (2040 Hz/1632 Hz, 0.31 s/0.31 s)	
13	103.8	113.0	22580E00	Continuous tone (2300 Hz)	
14	109.5	112.1	22580E00	Continuous tone (440 Hz)	
15	109.0	115.3	4s 22591E00	Interrupted tone at 0.5 Hz (1000 Hz)	UK, PFEER (general alarm)
16	109.8	113.8		Interrupted tone at 0.8 Hz (420 Hz)	Australia, AS 1610, AS 1670, AS 2220
17	108.5	114.7	0.5s	Interrupted tone at 2 Hz (1000 Hz)	
18	101.8	113.2	0.5s 22584E00	Interrupted tone at 4 Hz (2500 Hz)	Australia, AS 1610, AS 1670, AS 2220
19	102.5	113.5	0.5s	Interrupted tone at 2 Hz (2500 Hz)	
20	99.7	109.0		Interrupted tone at 0.057 Hz (700 Hz, 6.5 s on/13 s off)	Sweden, SS 031711 (important message (pre-alarm))
21	108.9	115.3	1s  1s 22587E00	Interrupted tone at 1 Hz (1000 Hz, 0.5 s on/0.5 s off)	UK, PFEER (general alarm) UK BS5839-1 (back-up alarm)
22	100.3	109.1	22588E00	Interrupted tone at 0.25 Hz (700 Hz, 2 s on/2 s off)	Sweden, SS 031711 (air alarm)



Tone no.	Horn atta	chment	Description of tone		Note
	Omni dB(A)	Uni dB(A)			
23	99.1	108.2	0.5s22584E00	Interrupted tone at 4 Hz (700 Hz, 0.125 s on/0.125 s off)	Sweden, SS 031711 (emergency signal)
24	100.3	109.5	0.7s	Interrupted tone at 1 Hz (700 Hz, 0.7 s on/0.3 s off)	Germany (industrial alarm)
25	112.9	115.1	  0,1s	Interrupted tone at 4 Hz (1400 Hz, 0.1 s on/0.1 s off)	
26	105.3	113.0	85ms 22592E00	Siren at 11.765 Hz (250 to 1200 Hz, 1200 to 250 Hz, 42.5 ms rising, 42.5 ms falling)	
27	108.8	115.1	-10s +	Siren at 0.0166 Hz (0 to 1000 Hz, 10 s rising, 40 s constant, 10 s falling)	Germany (industrial alarm)
28	108.4	114.9		Alternating tones at 1 Hz (800 Hz/1000 Hz, 0.4 s tone 1/0.4 s tone 2/ 0.2 s pause)	ISO 8201 Evacuation, international evacuation alarm
29	103.8	110.4	1s	Siren at 6.6 Hz (500 to 1000 Hz)	
30	110.8	118.7	4.5s 22596E00	Siren at 0.22 Hz (500 to 1200 Hz)	
31	111.0	117.0	↓1s	Siren at 1 Hz (1200 to 500 Hz)	
32	110.1	118.1	0.8s 22598E00	Siren at 0.33 Hz (500 to 1200 Hz)	



Tone no.	Horn atta	chment	Description of tone		Note
	Omni dB(A)	Uni dB(A)			
33	103.2	109.6	2258	Continuous tone (500 Hz)	Germany KTA 3901 (all-clear signal) IMO, Code 2 (Low)
34	98.0	106.7	2259	Continuous tone (660 Hz)	Sweden, SS 031711 (all-clear signal)
35	102.9	111.9	2258	Continuous tone (800 Hz)	IMO, Code 2 (High)
36	112.8	119.7	2258	Continuous tone (1200 Hz)	
37	114.3	117.3	2259	Continuous tone (1300 Hz)	
38	105.4	112.7	2259	Continuous tone (2000 Hz)	
39	109.8	113.6	1s  1s 2258	Interrupted tone at 1 Hz (420 Hz, 0.5 s on/0.5 s off)	Australia, AS 1670
40	105.6	109.3	1s  1s 2405	Interrupted tone at 5 Hz (470 Hz, 0.1 s on/0.1 s off)	
41	100.7	110.2	1s   1s 2258	Interrupted tone at 1 Hz (544 Hz, 0.5 s on/0.5 s off)	
42	100.8	110.2	4s 2258	Interrupted tone at 0.5 Hz (544 Hz, 1 s on/1 s off)	
43	103.7	112.3	  0.255	Interrupted tone at 0.8 Hz (800 Hz, 0.25 s on/1 s off)	



### Appendix C

EN

Tone no.	Horn atta	chment	Description of tone		Note
	Omni dB(A)	Uni dB(A)			
44	108.0	115.7	2,753s 2,753s 24060E00	Siren at 0.18 Hz (560/1055 Hz, 2.73 s/2.73 s)	
45	109.6	117.7	1s 24061E00	Siren at 1 Hz (660/1200 Hz, 0.5 s/0.5 s)	
46	106.9	112.8	-0.07s	Siren at 7 Hz (800/1000 Hz, 0.07 s/0.07 s)	
47	103.7	112.9	-0.07s	Siren at 7 Hz (2400/2900 Hz, 0.07 s/0.07 s)	
48	107.5	115.8	<u>↓ 1s </u> 24063E00	Siren at 1 Hz (1200/500 Hz, 0.5 s/0.5 s)	UK, PFEER P.T.A.P Germany DIN tone 33404-3 (emergency signal) EN 54-3
49	109.0	115.1		Interrupted tone at 0.5 Hz (1000 Hz, 1 s on/1 s off)	UK, PFEER (general alarm), UK BS5839-1 (back-up alarm)
50	111.7	115.8	1s 0.5s 24065E00	Siren at 1 Hz (1400/1600 Hz, 1600/1400 Hz, 1 s rising/0.5 s falling)	France, AFNOR, NFC48-265
51	110.5	118.6		Siren at 0.25 Hz (500/1200 Hz, 3.75 s/0.25 s)	Australia, AS 2220 (evacuation alarm)
52	110.2	116.2	+0.5s+0.5s−	Siren at 1 Hz (1500/500 Hz, 0.5 s/0.5 s) 3 x + 1 x pause (1 s)	Australia, AS 4428 (evacuation tone) ISO 8201
53	113.0	118.1	24068E00	Siren at 0.33 Hz (500/1500 Hz, 2 s) + pause (1 s)	Australia, AS 4428 (alarm tone) ISO 7731
54	110.4	118.4	1 3 5s + 0 5s - 1 24216E00	Siren at 0.26 Hz (500/1200 Hz, 3.5 s) + pause (0.5 s)	The Netherlands, NEN 2575 (evacuation alarm)



Tone no.	Horn atta	chment	Description of tone		Note
	Omni dB(A)	Uni dB(A)			
55	108.7	115.1		Interrupted tone at 0.5 Hz (1000 Hz, 1 s on/1 s off) 7 x + continuous tone (1000 Hz, 7 s)	IMO Code 1a
56	103.0	112.0	↓ 0.25s + 0.25s	Interrupted tone at 2 Hz (800 Hz, 0.25 s on/0.25 s off)	IMO Code 3.a (High)
57	109.8	113.7		Interrupted tone at 1 Hz (420 Hz, 0.5 s on/0.5 s off) 3 x + 1 x pause (1.5 s)	ISO 8201 Temporal
58	108.8	115.0		Interrupted tone at 1 Hz (1000 Hz, 0.5 s on/0.5 s off) 3 x + 1 x pause (1 s)	ISO 8201 Temporal
59	104.3	109.4	0.85s+1s→  1,5s→ 24213E00	Siren at 0.54 Hz (422/775 Hz, 0.85 s on/1 s off)	NFPA Temporal
60	108.4	114.4		Alternating tones at 1 Hz (1000 Hz/2000 Hz, 0.5 s/0.5 s)	Singapore
61	-	-		Reserved	
62	_	-		Reserved	
63	_	-		Reserved	
64	_	-		Reserved	



### EU Konformitätserklärung

EU Declaration of Conformity Déclaration de Conformité UE



### R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany

erklärt in alleiniger Verantwortung / declares in its sole responsibility / déclare sous sa seule responsabilité,

#### dass das Produkt:

that the product: que le produit:

Akustische und optische Signalgeräte Audible and visual signalling devices Appareil de signalisation sonore et lumineux

Typ(en), type(s), type(s):

YL60/3, YA60/3, FL60/3

mit den Anforderungen der folgenden Richtlinien und Normen übereinstimmt. is in conformity with the requirements of the following directives and standards. est conforme aux exigences des directives et des normes suivantes.

g	
Richtlinie(n) / Directive(s) / Directive(s)	Norm(en) / Standard(s) / Norme(s)
2014/34/EU         ATEX-Richtlinie           2014/34/EU         ATEX Directive           2014/34/UE         Directive ATEX           (OJ L 96, 29/03/2014, p. 309–356)         S09–356)	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015 EN IEC 60079-7: 2015 / A1:2018 EN 60079-31:2014 (IEC 60079-31:2022)
Kennzeichnung, marking, marquage:	<ul> <li>II 2 G Ex db IIC T6/T4 Gb</li> <li>⟨Ex⟩ II 2 G Ex db eb IIC T6/T4 Gb</li> <li>II 2 D Ex tb IIIC T80°C/T100°C Db</li> </ul>
<b>EU-Baumusterprüfbescheinigung:</b> EU Type Examination Certificate: Attestation d'examen UE de type:	EPS 22 ATEX 1 224 X (Bureau Veritas Consumer Products Services Germany GmbH, Businesspark A96, 86842 Tuerkheim, Germany; NB 2004)
Produktnormen nach Anhang II ATEX (aus Niederspannungsrichtlinie): Product standards according to Annex II ATEX (from Low Voltage Directive): Normes de produits selon l'annexe II ATEX (de la Directive Basse Tension):	EN IEC 60598-1:2021+A11:2022 EN 62471:2008
2014/30/EU         EMV-Richtlinie           2014/30/EU         EMC Directive           2014/30/UE         Directive CEM           (OJ L 96, 29/03/2014, p. 79–106)         Content of the second s	EN 50130-4:2011/ A1:2014 EN 61000-6-3:2007/+ A1:2011/ AC:2012 EN 61000-3-2:2014 EN 61000-3-3:2013
<b>2011/65/EU &amp; (EU) 2015/863 RoHS-Richtlinien</b> 2011/65/EU & (EU) 2015/863 RoHS Directives 2011/65/UE & (UE) 2015/863 Directives RoHS	EN IEC 63000:2018

Unterzeichnet für und im Namen von: / signed for and on behalf of: / signé pour et au nom de:

#### **R. STAHL Schaltgeräte GmbH**

Waldenburg, 2024-01-22

Ort und Datum Place and date Lieu et date

12)

Steffen Holtz Leiter Entwicklung Leuchten und Signalgeräte Leiter Qualitätsmanagement Systeme Director R&D Lighting and Signalling Directeur R&D Eclairage & Appareils de signalisation

**Daniel Groth** Director Quality Management Systems Directeur Systèmes de Management de la Qualité

(OJ L 174, 1/07/2011, p. 88-110 & OJ L 137, 04/06/2015, p. 10-

UK-Konformitätserklärung



### R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany

represented locally by, lokal vertreten durch

R. STAHL LTD. • 2nd Floor, Bromwich Court, Gorsey Lane, Coleshill • Birmingham B46 1JU, UK declares in its sole responsibility, erklärt in alleiniger Verantwortung,

that the product:	Audible and signalling devices
dass das Produkt:	Akustische und optische Signalgeräte
Type(s), Typ(en):	YL60/3, YA60/3, FL60/3

is in conformity with the requirements of the following regulations and standards. mit den Anforderungen der folgenden Verordnungen und Normen übereinstimmt.

Regulation(s) / Verordnung(en)	Standard(s) / Norm(en)
S.I. 2016/1107 Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations S.I. 2016/1107 Verordnung für Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015 EN IEC 60079-7: 2015 / A1:2018 EN 60079-31:2014 (IEC 60079-31:2022)
Marking, Kennzeichnung:	II 2 G Ex db IIC T6/T4 Gb Ex II 2 G Ex db eb IIC T6/T4 Gb II 2 D Ex tb IIIC T80°C/T100°C Db
UK Type Examination Certificate: UK-Baumusterprüfbescheinigung:	EPS 22 UKEX 1 224 X (Bureau Veritas Consumer Products Services UK Ltd, 31 Kingsland Grange, Woolston, Warrington, WA1 4RW, UK, AB8507)
Product standards according to S.I. 2016/1101 Electrical Equipment (Safety) Regulation Produktnormen nach S.I. 2016/1101 (Sicherheits-) Verordnung für elektronische Geräte	EN IEC 60598-1:2021+A11:2022 EN 62471:2008
S.I. 2016/1091 EMC Regulations S.I. 2016/1091 EMV-Verordnung	EN 50130-4:2011/ A1:2014 EN 61000-6-3:2007/+ A1:2011/ AC:2012 EN 61000-3-2:2014 EN 61000-3-3:2013
S.I. 2012/3032RoHS RegulationsS.I. 2012/3032RoHS-Verordnung	EN IEC 63000:2018

Waldenburg, 2024-01-22

Place and date Ort und Datum

i.V.

S. Holtz Head of R&D - BU Lighting & Signalling Leiter Entwicklung Leuchten und Signalgerät

i.V

D. Groth Vice President global Quality Management Leiter globales Qualitätsmanagement