# LBC 3428/00 Horn Loudspeaker

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- ▶ Suitable for marine and industrial applications
- ► Glass reinforced polyester with strong, fireretardant qualities
- ▶ Reduced maintenance costs
- ► Corrosion and chemical resistant
- ▶ Water-and dust-protected to class IP 66 and IP 67

The Bosch LBC 3428/00 Horn Loudspeaker is specifically designed for excellent sound reproduction in marine applications and other industrial environments. It is rugged, water- and dust-protected, and resistant to the corrosive effects of seawater and most industrial atmospheres. Suitable for both stationary and mobile systems, its strength and good acoustic performance also makes it ideal for general commercial and industrial applications.

## **Functions**

The Horn Loudspeaker is made from a UV-stable, glass-reinforced polyester (GRP). This strong, fire-resistant and corrosion- resistant material is very reliable and reduces maintenance costs. GRP is also chemical resistant and thermally stable, making it ideal for even the harshest environments. The horns are weather-proof, and incorporate stainless steel mounting brackets with cover screws to increase corrosion resistance. They are fitted with dual 20 mm gland entries (one gland is supplied as standard) to facilitate loop-through connection.

## **Certifications and Approvals**

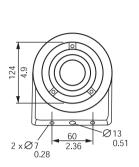
All Bosch loudspeakers are designed to withstand operating at their rated power for 100 continuous hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards. Bosch has also developed the Simulated Acoustical Feedback Exposure (SAFE) test to demonstrate that they can withstand two times their rated power for short durations. This ensures improved reliability under extreme conditions, leading to higher customer satisfaction, longer operating life, and lessens the chance of failure or performance deterioration.

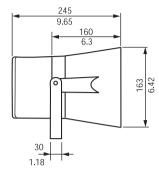
Safety		acc. to EN 60065
Water and dust p	orotection	acc. to IEC 60529, IP 66 and IP 67
Region	Certification	
Europe	CE	

# **Installation/Configuration Notes**

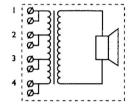
The Horn Loudspeaker includes a built-in transformer with taps on the primary winding for different power settings.

The Horn Loudspeaker is supplied with a sturdy mounting bracket allowing the sound beam to be accurately directed. The bracket has a ratchet facility to ensure it remains correctly positioned.



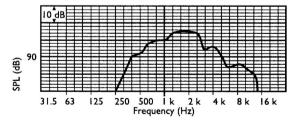


Dimensions in mm (in)

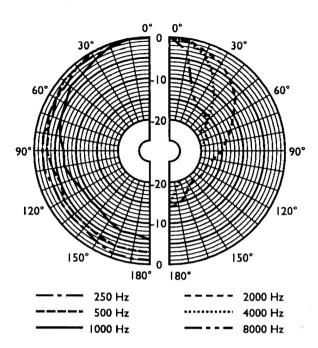


Transforr	ner tappings	Power
Commo n	Phase	15 W
1	2	15.0
2	3	7.5
3	4	5.0
1	3	4.0
2	4	2.0
1	4	0.8

Circuit diagram



Frequency response



Polar diagram (measured with pink noise)

	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
SPL 1.1	-	79	96	10 2	10 5	98	87
SPL max.	-	91	108	11 4	11 7	11 0	99
Q-factor	-	1.5	1.9	3.2	6.8	15. 8	51. 3
Efficien cy	-	0.07	2.7	6.2	5.9	0.5	0.1
H. angle	-	360	360	16 0	90	55	25
V. angle	-	360	360	16 0	90	55	25

Acoustical performance specified per octave

# **Parts Included**

Quantit y	Component
1	LBC 3428/00 Horn Loudspeaker
1	Cable gland

# **Technical Specifications**

# Electrical\*

Maximum power	22.5 W
Rated power	15/7.5/5/4/2/0.8W

Sound pressure level at 15 W / 1 W (1 kHz, 1 m)	114 dB / 102 dB (SPL)
Effective frequency range (-10 dB)	380 Hz to 5.5 kHz
Opening angle at 1 kHz/4 kHz (-6 dB)	160°/55°
Rated voltage	100 V
Rated impedance	667 ohm
Connector	Screw terminal block

<sup>\*</sup> Technical performance data acc. to IEC 60268-5

## Mechanical

Dimensions (L x Dmax)	245 x 163 mm (9.6 x 6.4 in)
Weight	2.6 kg (5.72 lb)
Color	Light grey (RAL 7035)
Cable diameter	8 mm to 12 mm (0.31 in to 0.47 in)

#### **Environmental**

Operating temperature	-25 °C to +55 °C (-13 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

# **Ordering Information**

# LBC 3428/00 Horn Loudspeaker

for harsh environments, circular, 15 W Order number LBC3428/00

## Accessories

# LBC 1256/00 EVAC Connection Adapter

3-pole screw connector, 100 pieces Order number LBC1256/00

### Represented by:

#### Americas:

Bosch Communications Systems 12000 Portland Avenue South Burnsville, Minnesota 55337, USA Phone: +1-800-392-3497 Fax: +1-800-955-6831 audiosupport@us.bosch.com www.boschsecurity.com

**Europe, Middle East, Africa:** Bosch Security Systems B.V. P.O. Box 80002 5600 JB Eindhoven, The Netherlands Phone: + 31 40 2577 284 Fax: +31 40 2577 330 emea.securitysystems@bosch.com www.boschsecurity.com

#### Asia-Pacific:

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2600
Fax: +65 6571 2608
apr.securitysystems@bosch.com
www.boschsecurity.com