

System Sensor L-series indoor horn/strobes

www.boschsecurity.com



BOSCH
Invented for life



- ▶ Plug-in design with minimal intrusion into the back box
- ▶ Field-selectable candela settings of 15 or 30 cd at 12 V or 15, 30, 75, 95, 110, 135, and 185 cd at 24 V
- ▶ Horn rated at 88+ dBA at 16 V
- ▶ Rotary switch for horn tone and two volume settings
- ▶ Compatible with SS-MDL3R synchronization module

Certifications and approvals

Region	Regulatory compliance/quality marks	
USA	UL	ANSI/UL 464, Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories; ANSI/UL 1971, Signaling Devices for the Hearing Impaired; and ANSI/UL 1638, Visible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories
	FM	see the FM Approval Guide
	CSFM	see the Bosch website (www.boschsecurity.com)

Installation/configuration notes



Notice

For additional information on horn tone and volume settings, horn current and sound output ratings, and strobe current draw and light output ratings, see the System Sensor *Installation and Maintenance Instructions* shipped with the product or available on our website (www.boschsecurity.com).

Compatible devices

The following devices are compatible with the L-series horn/strobes:

Category	Product ID	Product description
Bezels	SS-BZR-PG	Bezel wall horn/strobe red, Portuguese
	SS-BZW-PG	Bezel wall horn/strobe white, Portuguese
	SS-BZRC-PG	Bezel ceiling horn/strobe red, Portuguese

Category	Product ID	Product description
	SS-BZWC-PG	Bezel ceiling horn/strobe white, Portuguese
	SS-BZR-SP	Bezel wall horn/strobe red, Spanish
	SS-BZW- SP	Bezel wall horn/strobe red, Spanish
	SS-BZRC- SP	Bezel ceiling horn/strobe red, Spanish
	SS-BZWC- SP	Bezel ceiling horn/strobe red, Spanish
Synchronization module	SS-MDL3R	System Sensor synchronization module, red

Mounting considerations

The L-series horn/strobes mount on:

- Standard 4 in. x 4 in. x 1.5 in. back boxes
- 4 in. octagonal back boxes
- Double-gang back boxes
- Single-gang back boxes

Wiring considerations

The input terminals can accept solid wires between 12 AWG (ISO 4 mm²) and 18 AWG (ISO 0.75 mm²).

Technical specifications

Acoustical

Sound output (dBA)	
Temporal pattern	
Volume setting high	8-17 VDC = 84 16-33 VDC = 89 16-33 VFWR = 89
Volume setting low	8-17 VDC = 75 16-33 VDC = 83 16-33 VFWR = 83
Non-temporal pattern	
Volume setting high	8-17 VDC = 85 16-33 VDC = 90 16-33 VFWR = 90
Volume setting low	8-17 VDC = 76 16-33 VDC = 84 16-33 VFWR = 84
3.1 kHz temporal pattern	
Volume setting high	8-17 VDC = 83 16-33 VDC = 88 16-33 VFWR = 88
Volume setting low	8-17 VDC = 76 16-33 VDC = 82 16-33 VFWR = 82
3.1 kHz non-temporal pattern	

Sound output (dBA)	
Volume setting high	8-17 VDC = 84 16-33 VDC = 89 16-33 VFWR = 89
Volume setting low	8-17 VDC = 77 16-33 VDC = 83 16-33 VFWR = 83

Electrical

Temporal pattern, Volume setting high

8-17.5 VDC	Ceiling-mount: 15 cd = 103, 30 cd = 167 Wall-mount: 15 cd = 98, 30 cd = 158
16-33 VDC	Ceiling-mount: 15 cd = 71, 30 cd = 90, 75 cd = 143, 95 cd = 165, 115 cd = 187, 150 cd = 217, 177 cd = 254 Wall-mount: 15 cd = 54, 30 cd = 74, 75 cd = 121, 95 cd = 142, 115 cd = 162, 150 cd = 196, 177 cd = 245
16-33 VFWR	Ceiling-Mount: 15 cd = 107, 30 cd = 135, 75 cd = 179, 95 cd = 198, 115 cd = 223, 150 cd = 254, 177 cd = 286 Wall-mount: 15 cd = 83, 30 cd = 107, 75 cd = 156, 95 cd = 177, 115 cd = 198, 150 cd = 234, 177 cd = 287

Temporal pattern, volume setting low

8-17.5 VDC	Ceiling-mount: 15 cd = 96, 30 cd = 165 Wall-mount: 15 cd = 93, 30 cd = 154
16-33 VDC	Ceiling-mount: 15 cd = 54, 30 cd = 71, 75 cd = 137, 95 cd = 161, 115 cd = , 185 cd = , 150 cd = 211, 177 cd = 249 Wall-mount: 15 cd = 44, 30 cd = 65, 75 cd = 111, 95 cd = 133, 115 cd = 157, 150 cd = 184, 177 cd = 235
16-33 VFWR	Ceiling-mount: 15 cd = 78, 30 cd = 101, 75 cd = 151, 95 cd = 172, 115 cd = 199, 150 cd = 229, 177 cd = 262 Wall-mount: 15 cd = 68, 30 cd = 91 75 cd = 145, 95 cd = 165, 115 cd = 185, 150 cd = 223, 177 cd = 271

Non-temporal pattern, volume setting high

8-17.5 VDC	Ceiling-mount: 15 cd = 106, 30 cd = 173 Wall-mount: 15 cd = 106, 30 cd = 166
16-33 VDC	Ceiling-mount: 15 cd = 71, 30 cd = 90, 75 cd = 141, 95 cd = 165, 115 cd = 187, 150 cd = 230, 177 cd = 273 Wall-mount: 15 cd = 73, 30 cd = 94, 75 cd = 139, 95 cd = 160, 115 cd = 182, 150 cd = 211, 177 cd = 262

16-33 VFWR	<p>Ceiling-mount: 15 cd = 107, 30 cd = 135, 75 cd = 179, 95 cd = 198, 115 cd = 223, 150 cd = 254, 177 cd = 286</p> <p>Wall-mount: 15 cd = 111, 30 cd = 135, 75 cd = 185, 95 cd = 207, 115 cd = 230, 150 cd = 264, 177 cd = 316</p>
------------	--

Non-temporal pattern, volume setting low

8-17.5 VDC	<p>Ceiling-mount: 15 cd = 95, 30 cd = 166</p> <p>Wall-mount: 15 cd = 93, 30 cd = 156</p>
16-33 VDC	<p>Ceiling-mount: 15 cd = 54, 30 cd = 71, 75 cd = 124, 95 cd = 161, 115 cd = 170, 150 cd = 216, 177 cd = 258</p> <p>Wall-mount: 15 cd = 51, 30 cd = 71, 75 cd = 119, 95 cd = 139, 115 cd = 162, 150 cd = 190, 177 cd = 239</p>
16-33 VFWR	<p>Ceiling-mount: 15 cd = 78, 30 cd = 101, 75 cd = 151, 95 cd = 172, 115 cd = 199, 150 cd = 229, 177 cd = 262</p> <p>Wall-mount: 15 cd = 79, 30 cd = 104, 75 cd = 157, 95 cd = 175, 115 cd = 197, 150 cd = 235, 177 cd = 283</p>

3.1 kHz temporal pattern, volume setting high

8-17.5 VDC	<p>Ceiling-mount: 15 cd = 111, 30 cd = 164</p> <p>Wall-mount: 15 cd = 93, 30 cd = 156</p>
16-33 VDC	<p>Ceiling-mount: 15 cd = 69, 30 cd = 94, 75 cd = 147, 95 cd = 163, 115 cd = 184, 150 cd = 229, 177 cd = 257</p> <p>Wall-mount: 15 cd = 53, 30 cd = 73, 75 cd = 119, 95 cd = 140, 115 cd = 164, 150 cd = 190, 177 cd = 242</p>
16-33 VFWR	<p>Ceiling-mount: 15 cd = 108, 30 cd = 135, 75 cd = 179, 95 cd = 200, 115 cd = 225, 150 cd = 255, 177 cd = 289</p> <p>Wall-mount: 15 cd = 81, 30 cd = 105, 75 cd = 155, 95 cd = 177, 115 cd = 196, 150 cd = 234, 177 cd = 284</p>

3.1 kHz temporal pattern, volume setting low

8-17.5 VDC	<p>Ceiling-mount: 15 cd = 103, 30 cd = 163</p> <p>Wall-mount: 15 cd = 91, 30 cd = 154</p>
16-33 VDC	<p>Ceiling-mount: 15 cd = 54, 30 cd = 88, 75 cd = 143, 95 cd = 155, 115 cd = 185, 150 cd = 212, 177 cd = 252</p> <p>Wall-mount: 15 cd = 45, 30 cd = 66, 75 cd = 112, 95 cd = 133, 115 cd = 160, 150 cd = 185, 177 cd = 235</p>

16-33 VFWR	<p>Ceiling-mount: 15 cd = 79, 30 cd = 101, 75 cd = 150, 95 cd = 171, 115 cd = 196, 150 cd = 229, 177 cd = 260</p> <p>Wall-mount: 15 cd = 68, 30 cd = 90, 75 cd = 145, 95 cd = 166, 115 cd = 186, 150 cd = 222, 177 cd = 276</p>
------------	---

3.1 kHz non-temporal pattern, volume setting high

8-17.5 VDC	<p>Ceiling-mount: 15 cd = 111, 30 cd = 172</p> <p>Wall-mount: 15 cd = 99, 30 cd = 162</p>
16-33 VDC	<p>Ceiling-mount: 15 cd = 69, 30 cd = 94, 75 cd = 144, 95 cd = 164, 115 cd = 202, 150 cd = 229, 177 cd = 271</p> <p>Wall-mount: 15 cd = 69, 30 cd = 90, 75 cd = 135, 95 cd = 157, 115 cd = 175, 150 cd = 208, 177 cd = 261</p>
16-33 VFWR	<p>Ceiling-mount: 15 cd = 108, 30 cd = 135, 75 cd = 179, 95 cd = 200, 115 cd = 225, 150 cd = 255, 177 cd = 289</p> <p>Wall-mount: 15 cd = 104, 30 cd = 131, 75 cd = 177, 95 cd = 204, 115 cd = 230, 150 cd = 264, 177 cd = 326</p>

3.1 kHz non-temporal pattern, volume setting low

8-17.5 VDC	<p>Ceiling-mount: 15 cd = 103, 30 cd = 169</p> <p>Wall-mount: 15 cd = 93, 30 cd = 156</p>
16-33 VDC	<p>Ceiling-mount: 15 cd = 54, 30 cd = 88, 75 cd = 131, 95 cd = 155, 115 cd = 187, 150 cd = 217, 177 cd = 259</p> <p>Wall-mount: 15 cd = 52, 30 cd = 72, 75 cd = 119, 95 cd = 138, 115 cd = 162, 150 cd = 192, 177 cd = 242</p>
16-33 VFWR	<p>Ceiling-mount: 15 cd = 79, 30 cd = 101, 75 cd = 150, 95 cd = 171, 115 cd = 196, 150 cd = 229, 177 cd = 260</p> <p>Wall-mount: 15 cd = 77, 30 cd = 102, 75 cd = 156, 95 cd = 177, 115 cd = 199, 150 cd = 234, 177 cd = 291</p>

Voltage:

Nominal (regulated)	12 VDC or 24 VDC/FWR
Range	8 to 17.5 VDC or 16 to 33 VDC/FWR
Range with synch module	8.5 to 17.5 VDC or 16.5 to 33 VDC/FWR

Environmental

Humidity	10% to 93%, noncondensing
Temperature (operating)	+32°F to 120°F (0°C to +49°C)

Mechanical

Horn/strobe dimensions

Ceiling-mount (Diameter x Depth)	6.83 in. x 2.47 in. (173.5 mm x 62.7 mm)
Wall-mount (LxWxD, including lens)	5.6 in. x 4.7 in. x 1.25 in. (143 mm x 119 mm x 32 mm)

Visual**Light output**

For degrees (°), a tolerance of ± 1° is permitted

Horizontal dispersion		Vertical dispersion wall to floor		Vertical dispersion ceiling to wall to floor	
Degree (°)	Percent (%)	Degree (°)	Percent (%)	Degree (°)	Percent (%)
0	100	0	100	0	100
5-25	90	5-30	90	5-25	90
30-45	75	35	65	30-45	75
50	55	40	46	50	55
55	45	45	34	60	45
60	40	50	27	65	35
65	35	55	22	70	35
70	35	60	18	75	30
75	30	65	16	80	30
80	30	70	15	85	25
85	25	75	13	90	25
90	25	80-90	12		

Trademarks

All hardware/software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Ordering information**SS-P2RL Wall horn/strobe, 2-wire, red**

Red wall-mount horn-strobe for indoor applications, Designed for use in 12 VDC or 24 VDC/FWR systems. Offers eight selectable tone and volume combinations and seven candela settings. Order number **SS-P2RL**

SS-P2WL Wall horn/strobe, 2-wire, white

White wall-mount horn-strobe for indoor applications, Designed for use in 12 VDC or 24 VDC/FWR systems. Offers eight selectable tone and volume combinations and seven candela settings. Order number **SS-P2WL**

SS-PC2RL Ceiling horn/strobe, 2-wire, red

Red ceiling-mount horn-strobe for indoor applications, Designed for use in 12 VDC or 24 VDC/FWR systems. Offers eight selectable tone and volume combinations and seven candela settings. Order number **SS-PC2RL**

SS-PC2WL Ceiling horn/strobe, 2-wire, white

White ceiling-mount horn-strobe for indoor applications, Designed for use in 12 VDC or 24 VDC/FWR systems. Offers eight selectable tone and volume combinations and seven candela settings. Order number **SS-PC2WL**

Accessories**SS-MDL3R System Sensor Synchronization, RD**

The SS-MDL3R module allows synchronizing temporal-coded horns, synchronizing strobe flash time to 1 s, and silencing horns in horn/strobe combinations. Order number **SS-MDL3R**

SS-BZRC-PG Bezel ceiling horn/strobe red, pt

Installs on SS-BZRC devices. Red with Portuguese (FOGO) text in white lettering. Ships 5 per package. Order number **SS-BZRC-PG**

SS-BZRC-SP Bezel ceiling horn/strobe red, es

Installs on SS-BZRC devices. Red with Spanish (FUEGO) text in white lettering. Ships 5 per package. Order number **SS-BZRC-SP**

SS-BZR-PG Bezel wall horn/strobe red, pt

Installs on SS-BZR devices. Red with Portuguese (FOGO) text in white lettering. Ships 5 per package. Order number **SS-BZR-PG**

SS-BZR-SP Bezel wall horn/strobe red, es

Installs on SS-BZR devices. Red with Spanish (FUEGO) text in white lettering. Ships 5 per package. Order number **SS-BZR-SP**

SS-BZWC-PG Bezel ceiling horn/strobe white, pt

Installs on SS-BZWC devices. White with Portuguese (FOGO) text in red lettering. Ships 5 per package. Order number **SS-BZWC-PG**

SS-BZWC-SP Bezel ceiling horn/strobe white, es

Installs on SS-BZWC devices. White with Spanish (FUEGO) text in red lettering. Ships 5 per package. Order number **SS-BZWC-SP**

SS-BZW-PG Bezel wall horn/strobe white, pt

Installs on SS-BZW devices. White with Portuguese (FOGO) text in red lettering. Ships 5 per package. Order number **SS-BZW-PG**

SS-BZW-SP Bezel wall horn/strobe white, es

Installs on SS-BZW devices. White with Spanish (FUEGO) text in red lettering. Ships 5 per package. Order number **SS-BZW-SP**

Represented by:

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

Germany:
Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Grasbrunn
Germany
www.boschsecurity.com

North America:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
onlinehelp@us.bosch.com
www.boschsecurity.us

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia