

SL signal towers

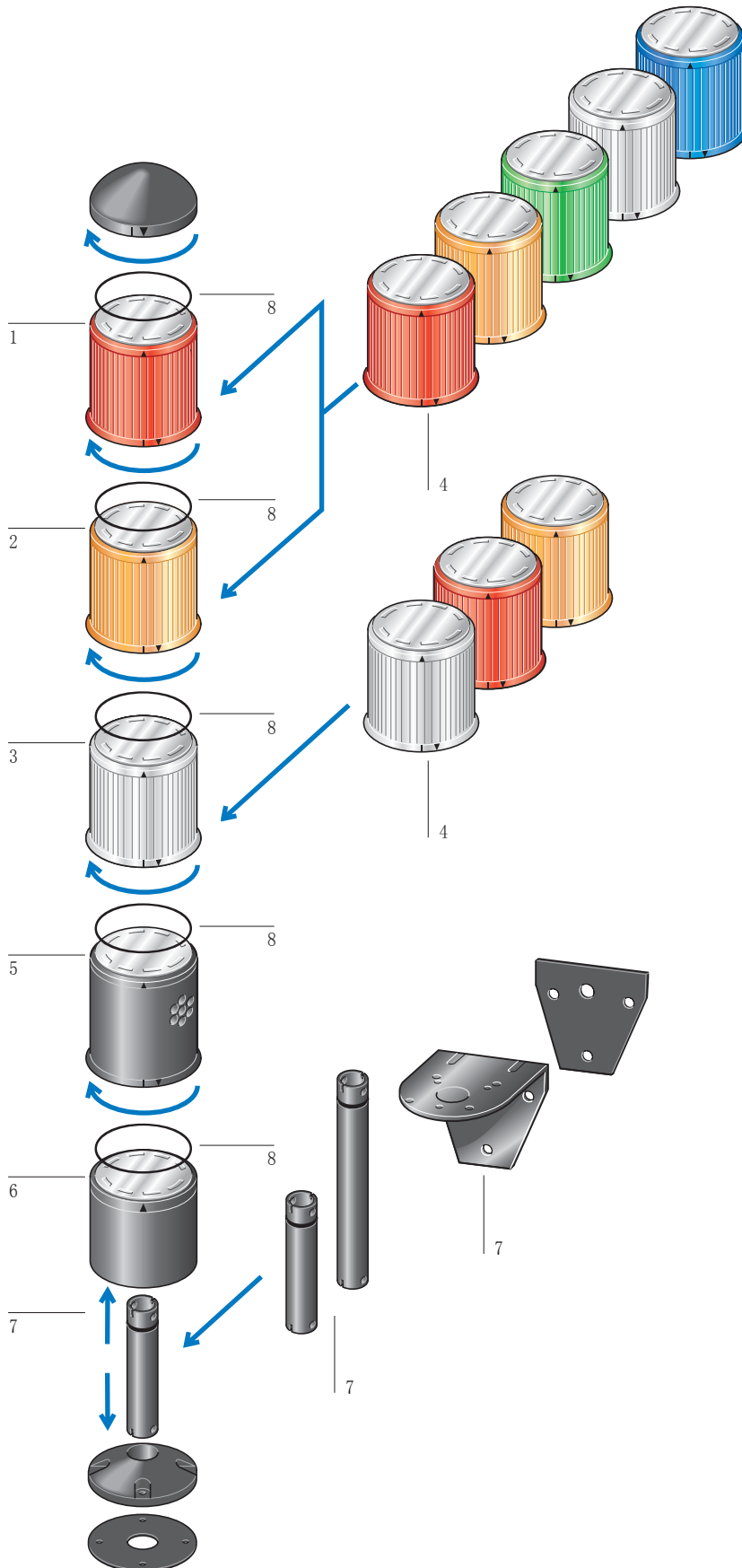


*Powering Business Worldwide*

# SL signal towers

Signal towers

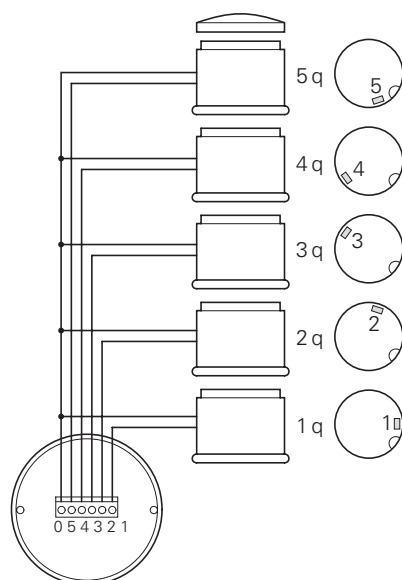
## System overview



<b>Continuous light</b> 1	<b>Strobe light</b> 3	<b>Base module</b> 6
Easy mounting with bayonet fitting	Easy mounting with bayonet fitting	Easy mounting with bayonet fitting
Modules can be arranged in any order	Modules can be arranged in any order	Protection type IP54
Protection type IP54	Protection type IP54	For bottom mounting or in tubular column
Up to five levels can be actuated independently	Up to five levels can be actuated independently	Terminal connection capacity 6 × 1.5 mm <sup>2</sup>
Operating mode: 100 % DF	Operating mode: 100 % DF	With top cover
Without light elements	Flash power 1 Ws	→Page 3
→ Page 3	Flashing frequency: approx. 1 Hz	
	→Page 5	
<b>Flashing light</b> 2	<b>Caps</b> 4	<b>Accessories</b> 7
Easy mounting with bayonet fitting	Color: red, yellow, green, white, blue	Spacer available in four lengths
Modules can be arranged in any order	Fresnel grooves ensure even light distribution	Filament bulbs, LEDs
Protection type IP54		90° wall mounting with commercial four-hole fixing
Up to five levels can be actuated independently		→Page 6
Operating mode: 100 % DF	<b>Acoustic device</b> 5	<b>Gaskets</b> 8
With filament bulb	Easy mounting with bayonet fitting	For increasing the degree of protection type to IP65
Flashing frequency: approx. 1 Hz	Modules can be arranged in any order	→ Page 6
→ Page 4	Protection type IP20	
	Operating mode: 100 % DF	
	Continuous tone or pulsed tone	
	Sound pressure: about 90 dB at 60 cm	
	Frequency: 2750 Hz	
	→ Page 4	





**Product feature of SL**

- Individual programming by jumper: max. 5 modules and base module
- Customized combinations →Page 2/104




# SL signal towers

## Modules




Rated operational voltage $U_e$ V	Modules Number	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
<b>Complete units</b> Base module with foot and 100 mm tube including filament lamp Continuous light, IP54						
24 V AC/DC	3		<b>SL-100-L-RYG/24</b> 205352		1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified Degree of Protection UL/CSA Type 12, with additional SL-IP65: part no. 4X
24 V AC/DC	2		<b>SL-100-L-RG/24</b> 205354		1 off 	

### Customized complete unit

To order use form FO315,  
→ Data sheet in Online Catalog  
\* = Freely selectable customer identification or stock no.;  
Maximum 10 characters

-	-	-	<b>SL-COMBINATION-*</b> 229655		1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
---	---	---	-----------------------------------	--	--	--







## SL...

	Terminal type	Part no. Article no.	Price See price list	Std. pack	Notes	Information relevant for export to North America
<b>Base module</b> <b>Black, with cover</b> 	Screw terminals	<b>SL-B</b> 205311		1 off 		Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
	Cage clamp Cage clamp is a registered trademark of Wago Kontakttechnik GmbH, Minden,	<b>SL-CB</b> 218483				
	Connection to AS-Interface	<b>SL-B-ASI</b> 222174		1 off 	Base module (printed circuit board in base enclosure with 3 outputs):	<ul style="list-style-type: none"> <li>Total power supply from AS-Interface (max. 250 mA) using 2-way screw terminal</li> <li>Combination of 3 surface mounting modules with different functions (continuous, flashing, strobe light and acoustic indication)</li> <li>Status indication via LEDs</li> <li>Order stacking modules separately</li> </ul>































### Continuous light module



Without light elements, filament lamps  
→ Page 6, LED → Page 6

	<b>SL-L-W</b> 205312		1 off 		Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
	<b>SL-L-R</b> 205313				
	<b>SL-L-G</b> 205314				
	<b>SL-L-Y</b> 205315				
	<b>SL-L-B</b> 205316				

SL...

	Rated operational voltage	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
	U <sub>e</sub> V					 
<b>Flashing light module</b>						
Without light element, f ≈ 1 Hz						
	24 V AC/DC (+10 %/-15 %)		<b>SL-BL24-W</b> 205317	1 off  	Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 NKCR 012528 3211-03 UL Listed, CSA certified
			<b>SL-BL24-R</b> 205318			
			<b>SL-BL24-Y</b> 205320			
			<b>SL-BL24-G</b> 205319			
			<b>SL-BL24-B</b> 205321			
	110 - 130 V AC		<b>SL-BL130-W</b> 205322	1 off  	Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 NKCR 012528 3211-03 UL Listed, CSA certified
			<b>SL-BL130-R</b> 205323			
			<b>SL-BL130-G</b> 205324			
			<b>SL-BL130-Y</b> 205325			
			<b>SL-BL130-B</b> 205326			
	230 V AC		<b>SL-BL230-W</b> 205327	1 off  	Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 NKCR 012528 3211-03 UL Listed, CSA certified
			<b>SL-BL230-R</b> 205328			
			<b>SL-BL230-G</b> 205329			
			<b>SL-BL230-Y</b> 205330			
			<b>SL-BL230-B</b> 205331			
<b>Acoustic module</b>						
IP20						
	Continuous tone f = 2750 Hz In 60 cm spacing 12 V: 77 dB 24 V: 83 dB 36 V: 90 dB		<b>SL-A24</b> 205341	1 off  	Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 NKCR 012528 3211-03 UL Listed, CSA certified
			<b>SL-A110-230</b> 205342			
	Pulsed tone 5 Hz with f = 2750 Hz In 60 cm spacing 12 V: 61 dB 24 V: 66 dB 36 V: 77 dB		<b>SL-AP24</b> 205343			
			<b>SL-AP110-230</b> 205344			
Pulsed tone 5 Hz with f = 2750 Hz In 60 cm spacing 110 V: 67 dB 230 V: 73 dB		<b>SL-AP110-230</b> 205344				

# SL signal towers

## Modules

### Strobe light module

With flash tube, 1 Ws,  $f \approx 1$  Hz



### SL...

Rated operational voltage

Color

Part no.  
Article no.

Price  
See price list

Std. pack

Information relevant for export to North America



$U_e$   
V

24 V AC/DC  
(+10 ... -15 %)  
 $I_{\text{emax}} = 190$  mA



**SL-FL24-W**  
205332



**SL-FL24-R**  
205333



**SL-FL24-Y**  
205334

110 - 130 V AC  
 $I_{\text{emax}} = 31$  mA



**SL-FL130-W**  
205335



**SL-FL130-R**  
205336



**SL-FL130-Y**  
205337

230 V AC  
 $I_{\text{emax}} = 28$  mA



**SL-FL230-W**  
205338



**SL-FL230-R**  
205339



**SL-FL230-Y**  
205340

1 off

Product Standards

IEC/EN 60947-5; UL 508;  
CSA-C22.2 No. 14-05;  
CSA-C22.2 No. 94-91; CE marking

UL File No.

E29184

UL CCN

NKCR

CSA File No.


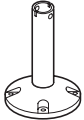
















012528

CSA Class No.

3211-03

NA Certification

UL Listed, CSA certified

SL...	Lifespan EN 60064 at $t_a = +25\text{ }^\circ\text{C}$ $t_{\text{average(AC)}}$ h	Rated operational voltage $U_e$ V	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Accessories Stand with spacer</b> 	100 mm, plastic, black	–	–	<b>SL-F100</b> 205345	1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking	
	100 mm, metal	–	–	<b>SL-F100M</b> 265359			
	250 mm, plastic, black	–	–	<b>SL-F250</b> 205346			
	250 mm, metal	–	–	<b>SL-F250M</b> 268925			
	400 mm, metal	–	–	<b>SL-F400</b> 215275			
	800 mm, metal	–	–	<b>SL-F800</b> 215276			
<b>Fixing bracket 90°, for wall mounting</b> 	Metal	–	–	<b>SL-FW</b> 205347		UL File No. UL CCN CSA File No. CSA Class No. NA Certification	
<b>Filament bulb BA 15d, 5 - 7 W</b> 	2000	24 V	–	<b>SL-L24</b> 205348		UL File No. UL CCN CSA File No. CSA Class No. NA Certification	
	5000	110 - 130 V	–	<b>SL-L130</b> 205349			
	5000	200 - 260 V	–	<b>SL-L230</b> 205350			
<b>Multiple LED BA 15d</b> 	100000	18 - 30 V AC/DC 50/60 Hz 13 - 50 mA		<b>SL-LED-W</b> 215278	1 off 	Product Standards IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking	
				<b>SL-LED-R</b> 215279			
				<b>SL-LED-G</b> 215280			
				<b>SL-LED-Y</b> 215281			
				<b>SL-LED-B</b> 215282			
	100000	110 - 230 V AC, 50/60 Hz 9 - 17 mA		<b>SL-LED230-W</b> 285532			
				<b>SL-LED230-R</b> 285533			
				<b>SL-LED230-G</b> 285534			
				<b>SL-LED230-Y</b> 285535			
				<b>SL-LED230-B</b> 285536			
	Gasket set For increasing the degree of protection type to IP65 (Not for the acoustic device) for 3 modules $\triangleq$ 4 units			<b>SL-IP65</b> 215277		UL File No. UL CCN CSA File No. CSA Class No. NA Certification Degree of Protection	
–	–	–			UL File No. UL CCN CSA File No. CSA Class No. NA Certification Degree of Protection		

# SL signal towers

## Modules

### Technical data

#### SL signal towers

General			
Standards			IEC/EN 60947, VDE 0660
Protection type, IEC/EN 60529			IP54, IP65 with SL-IP65 gasket, IP20 with acoustic module SL-A
Climatic proofing			Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Mounting position			Any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal	g		> 15
Terminal capacity			
Solid	mm <sup>2</sup>		0.75 - 2.5
Stranded	mm <sup>2</sup>		0.5 - 2.5
Contacts			
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	4000
Rated insulation voltage	U <sub>i</sub>	V	250
Overvoltage category/pollution degree			III/3

#### SL-B-ASI base module for signal towers

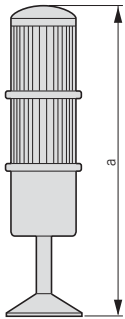
General			
Connection to AS-Interface cable			Screw terminal on printed circuit board
Addressing			Via connection to AS-Interface cable
Maximum total current	mA		≲250
Energy supply			Completely from the AS-Interface cable
Ambient temperature	°C		-25 - +55
Status LEDs on the printed circuit board			Status. Output Q0/function module position 1: green Status. Output Q1/function module position 2: green Status. Output Q2/function module position 3: green AS-Interface power line: green AS-Interface error, AS-Interface master failure: red
Profile			S-9.A.E



## Dimensions

### Signal towers

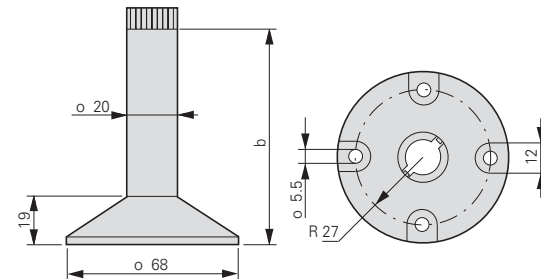
SL-100-...



Number of modules	
1	227
2	289
3	351
4	413
5	475

### Stand with spacer

SL-F...



	b
SL-F100	85
SL-F250	235
SL-F400	402
SL-F800	802

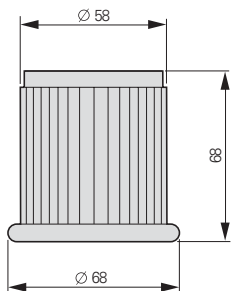
### Modules

SL-L...

SL-BL...

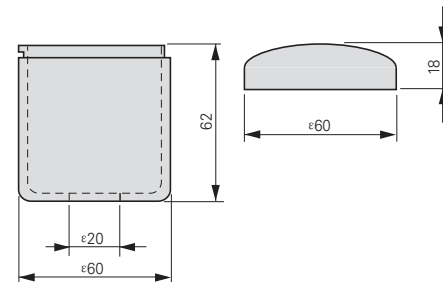
SL-A...

SL-FL...



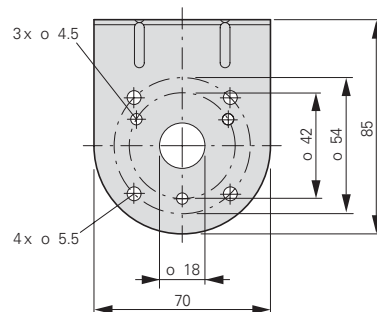
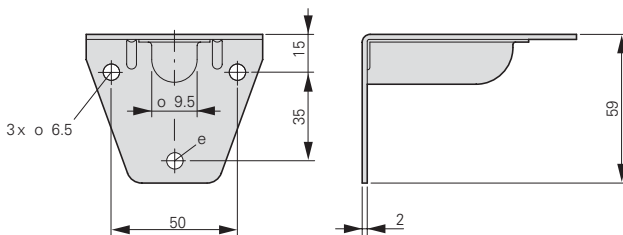
### Basic modules with cover

SL-(QB...



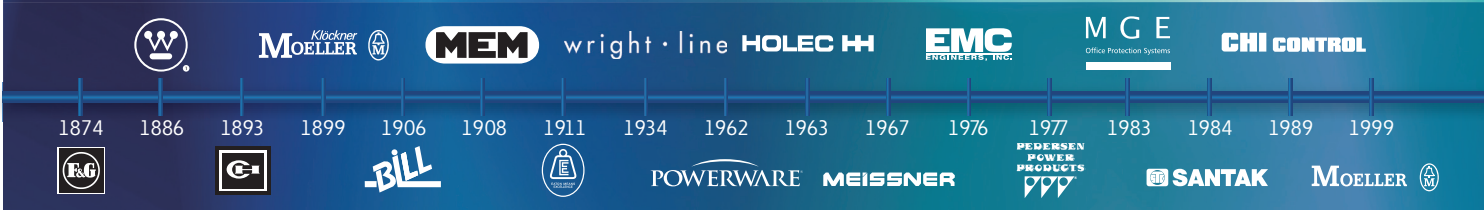
### Fixing bracket

SL-FW



# EAT•N

## The power of fusion.



# EAT•N

Powering Business Worldwide

There's a certain energy at Eaton. It's the power of uniting some of the world's most respected names to build a brand you can trust to meet every power management need. The energy created supports our commitment to powering business worldwide.

Eaton is dedicated to ensuring that reliable, efficient and safe power is available when it's needed most. With unparalleled knowledge of electrical power management across industries, experts at Eaton deliver customized, integrated solutions to solve our customers' most critical challenges. [Eaton.com/Electrical](http://Eaton.com/Electrical).

All of the above are trademarks of Eaton Corporation or its affiliates. Eaton has a license to use the Westinghouse brand name in Asia Pacific. ©2012 Eaton Corporation.

Eaton is dedicated to ensuring that reliable, efficient and safe power is available when it's needed most. With unparalleled knowledge of electrical power management across industries, experts at Eaton deliver customized, integrated solutions to solve our customers' most critical challenges.

Our focus is on delivering the right solution for the application. But, decision makers demand more than just innovative products. They turn to Eaton for an unwavering commitment to personal support that makes customer success a top priority. For more information, **visit [www.eaton.com/electrical](http://www.eaton.com/electrical)**.

**Electrical Sector Asia Pacific**  
No.3, Lane 280, Linhong Road,  
Changning District, Shanghai

Eaton Industries Pte Ltd  
Electrical Sector  
4 Loyang Lane #04-01/02  
Singapore 508914

© 2012 Eaton Corporation  
All Rights Reserved  
Printed in Singapore  
SL-SEA-EN  
July 2012

Eaton is a registered trademark  
of Eaton Corporation.

All other trademarks are property  
of their respective owners.