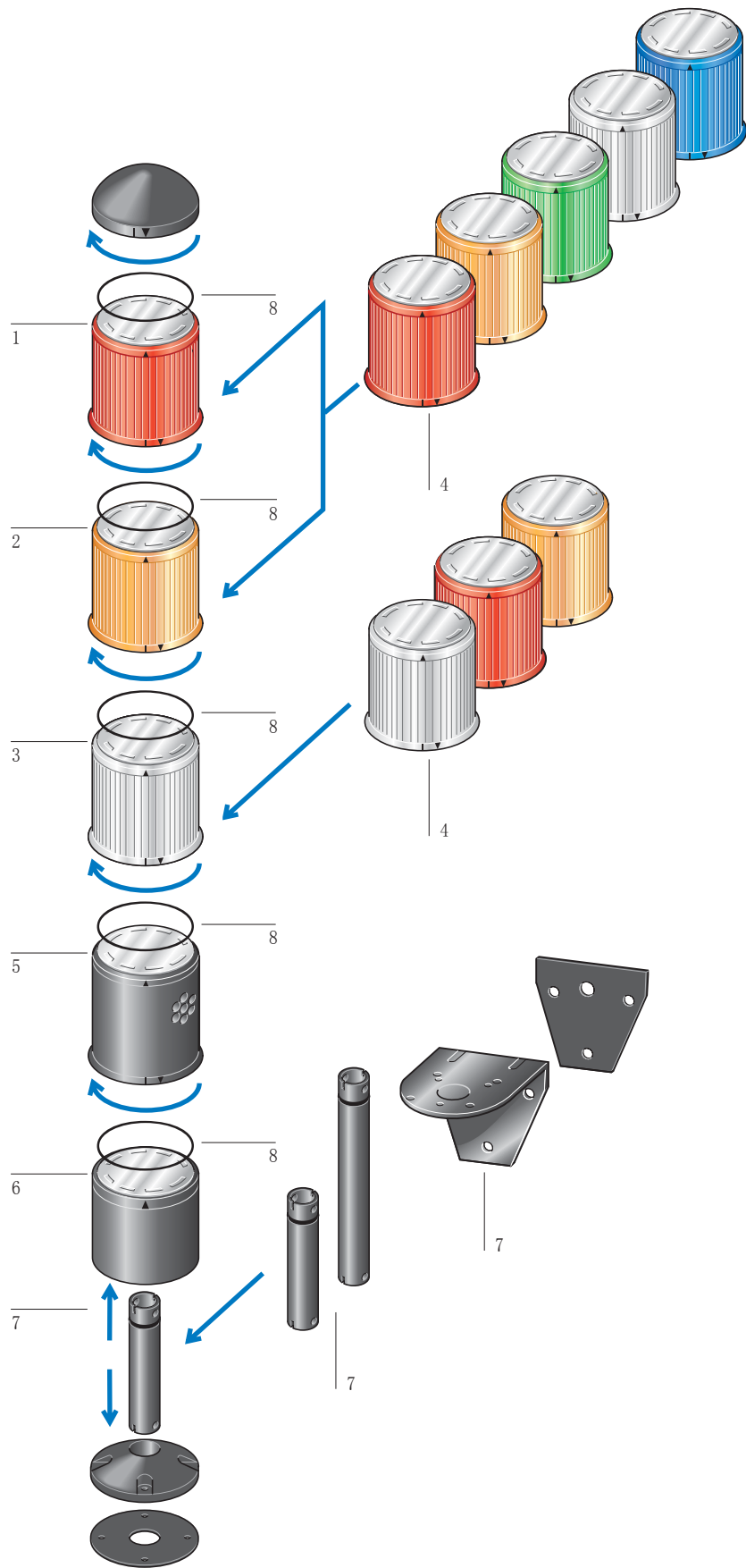


SL signal towers



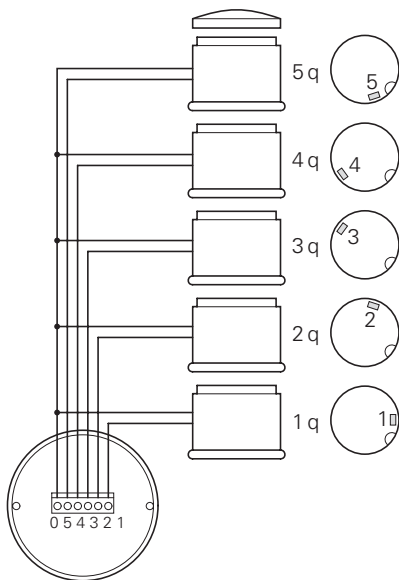
System overview



Continuous light	1	Strobe light	3	Base module	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 ²	
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			
Flashing light	2	Caps	4	Accessories	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		Acoustic device	5	Gaskets	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

SL...

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	
							
Complete units							
Base module with foot and 100 mm tube including filament lamp Continuous light, IP54							
24 V AC/DC	3		SL-100-L-RYG/24 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 E29184
24 V AC/DC	2		SL-100-L-RG/24 205354	1 off		UL File No. UL CCN CSA File No. CSA Class No. NA Certification Degree of Protection	NKCR 012528 3211-03 UL Listed, CSA certified UL/CSA Type 12, with additional SL-IP65; part no. 4X
Customized complete unit							
To order use form F0315, → Data sheet in Online Catalog * = Freely selectable customer identification or stock no.; Maximum 10 characters							
—	—	—	SL-COMBINATION-* 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 E29184
						UL File No. UL CCN CSA File No. CSA Class No. NA Certification	NKCR 012528 3211-03 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  	
Base module Black, with cover  	Screw terminals	SL-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 E29184
						UL File No. UL CCN CSA File No. CSA Class No. NA Certification	NKCR 012528 3211-03 UL Listed, CSA certified
	Cage clamp Cage clamp is a registered trademark of Wago Kontakttechnik GmbH, Minden,	SL-CB 218483					
	Connection to AS-Interface	SL-B-ASI 222174		1 off  	Base module (printed circuit board in base enclosure with 3 outputs): • Total power supply from AS-Interface (max. 250 mA) using 2-way screw terminal • Combination of 3 surface mounting modules with different functions (continuous, flashing, strobe light and acoustic indication) • Status indication via LEDs • Order stacking modules separately		
Continuous light module 	Without light elements, filament lamps → Page 6, LED→ Page 6						
		SL-L-W 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 E29184
		SL-L-R 205313				UL File No.	NKCR
		SL-L-G 205314				UL CCN	012528
		SL-L-Y 205315				CSA File No.	3211-03
		SL-L-B 205316				CSA Class No. NA Certification	UL Listed, CSA certified

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							
Flashing light module								
Without light element, f ≈1 Hz								
	24 V AC/DC (+10 %/-15 %)		SL-BL24-W 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
			SL-BL24-R 205318					
			SL-BL24-Y 205320					
			SL-BL24-G 205319					
			SL-BL24-B 205321					
	110 - 130 V AC		SL-BL130-W 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
			SL-BL130-R 205323					
			SL-BL130-G 205324					
			SL-BL130-Y 205325					
			SL-BL130-B 205326					
	230 V AC		SL-BL230-W 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
			SL-BL230-R 205328					
			SL-BL230-G 205329					
			SL-BL230-Y 205330					
			SL-BL230-B 205331					
Acoustic module								
IP20								
	Continuous tone f = 2750 Hz In 60 cm spacing 12 V: 77 dB 24 V: 83 dB 36 V: 90 dB	12 - 36 V AC/DC 8 - 12 mA		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
	Continuous tone f = 2750 Hz In 60 cm spacing 110 V: 72 dB 230 V: 78 dB	110-230 V AC/DC 4 - 8 mA		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
Pulsed tone 5 Hz with f = 2750 Hz In 60 cm spacing 12 V: 61 dB 24 V: 66 dB 36 V: 77 dB	12 - 36 V AC/DC 8 - 12 mA		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	
Pulsed tone 5 Hz with f = 2750 Hz In 60 cm spacing 110 V: 67 dB 230 V: 73 dB	110-230 V AC/DC 4 - 8 mA		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	

SL signal towers

Modules

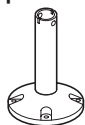
Strobe light module
With flash tube, 1 Ws, f≈1 Hz



SL...		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 _{emax} = 190 mA			SL-FL24-W 205332		1 off  	Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
			SL-FL24-R 205333				
			SL-FL24-Y 205334				
110 - 130 V AC I _{emax} = 31 mA			SL-FL130-W 205335			UL File No. UL CCN CSA File No. CSA Class No. NA Certification	E29184 NKCR 012528 3211-03 UL Listed, CSA certified
			SL-FL130-R 205336				
			SL-FL130-Y 205337				
230 V AC I _{emax} = 28 mA			SL-FL230-W 205338				
			SL-FL230-R 205339				
			SL-FL230-Y 205340				

SL...

Accessories Stand with spacer



	Lifespan EN 60064 at $t_a = +25\text{ °C}$ $t_{\text{average(AC)}}$ h	Rated operational voltage U_o V	Color	Part no. Article no.
100 mm, plastic, black	—	—	—	SL-F100 205345
100 mm, metal	—	—	—	SL-F100M 265359
250 mm, plastic, black	—	—	—	SL-F250 205346
250 mm, metal	—	—	—	SL-F250M 268925
400 mm, metal	—	—	—	SL-F400 215275
800 mm, metal	—	—	—	SL-F800 215276

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

Fixing bracket 90°, for wall mounting



Filament bulb BA 15d, 5 - 7 W



Metal	—	—	—	SL-FW 205347
	2000	24 V	—	SL-L24 205348
	5000	110 - 130 V	—	SL-L130 205349
	5000	200 - 260 V	—	SL-L230 205350

Multiple LED BA 15d



	100000	18 - 30 V AC/DC 50/60 Hz 13 - 50 mA		SL-LED-W 215278
				SL-LED-R 215279
				SL-LED-G 215280
				SL-LED-Y 215281
				SL-LED-B 215282
	100000	110 - 230 V AC, 50/60 Hz 9 - 17 mA		SL-LED230-W 285532
				SL-LED230-R 285533
				SL-LED230-G 285534
				SL-LED230-Y 285535
				SL-LED230-B 285536



Gasket set
For increasing the degree of protection type to IP65
(Not for the acoustic device)
for 3 modules $\triangleq$ 4 units

—	—	—	—	SL-IP65 215277
---	---	---	---	--------------------------

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 4X

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	g		> 15
Shock duration 11 ms, half-sinusoidal			
Terminal capacity			
Solid	mm ²		0.75 - 2.5
Stranded	mm ²		0.5 - 2.5
Contacts			
Rated impulse withstand voltage	U _{imp}	V AC	4000
Rated insulation voltage	U _i	V	250
Overvoltage category/pollution degree			III/3

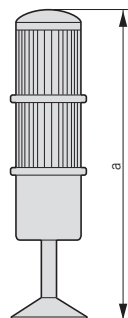
SL-B-ASI base module for signal towers

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

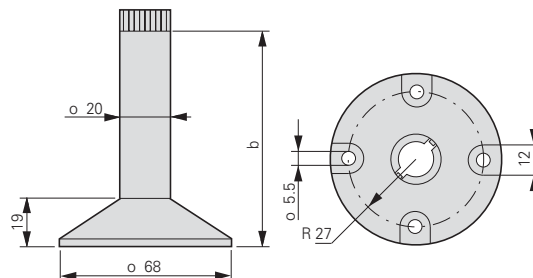
SL-100-...



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

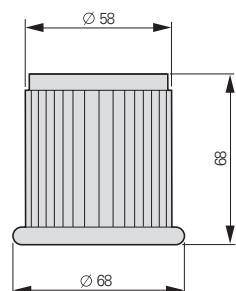
Modules

SL-L...

SL-BL...

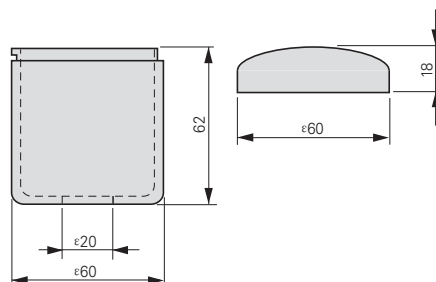
SL-A...

SL-FL...



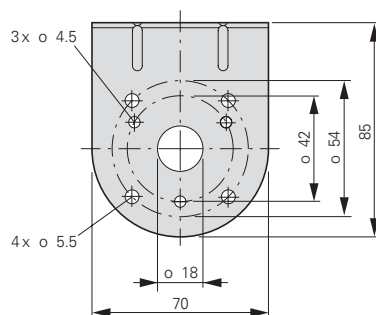
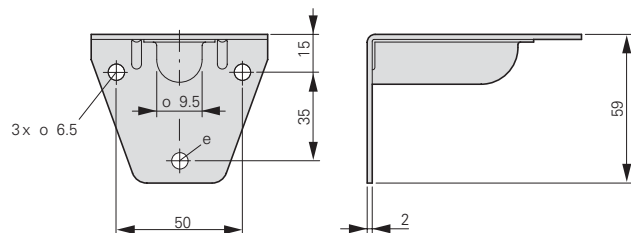
Basic modules with cover

SL-(QB...



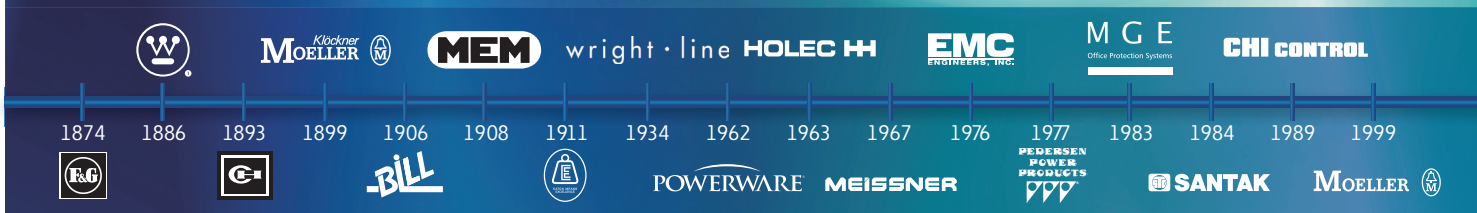
Fixing bracket

SL-FW



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