

SL7 and SL4 signal towers

Product Range Catalog

Clearly brighter, louder und faster



EAT-N

Powering Business Worldwide



Eaton Online Catalog – find product details quickly and efficiently!

You can find comprehensive up-to-date product information at <http://de.ecat.moeller.net>

Lookup

You can search by keywords, product names, article numbers, technical data: The search understands everything and takes you straight to the product you're looking for.

Graphical navigation

Graphical representation of the fields of application and product groups.

Selection aids

Tailored to the typical expert's approach, this search aid helps you quickly find the product you need.

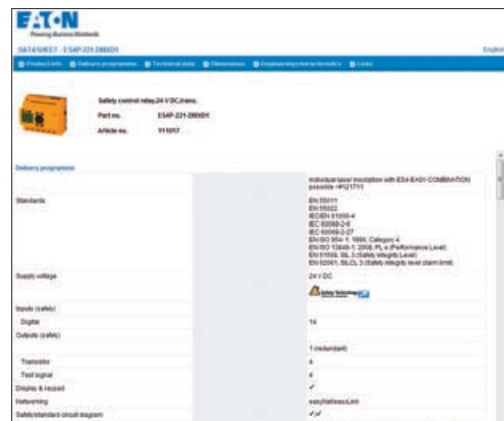
Data sheets

For every article the catalog can generate a technical data sheet, which you can convert to a PDF file for printing or saving with a single click.

Parts lists

From your search results you can create a parts list that you can then send to your Eaton sales partner as a query.

You can find comprehensive up-to-date information about Eaton's automation products and switchgear in our Online Catalog.



HTML data sheet; can be saved as PDF file.

Item	Qty	Photo	Article No.	Part no.	Short Text
1	1		111017	ES4P-221-DM02H	Safety control relay 24 V DC 3-line
2	1		229758	FAK-COMBIATION	Complete unit
3	1		284821	M225-DCM GR X1100	Double act. alum. flat-off-button ext.
4	1		290090	DL 815-01 (110V/20A, 120V/20A)	Contactor 7.5kW/400V AC-operated
5	1		138516	PK250XT1-05	PK250 = trip block Standard 0-05A

Parts list, e.g. for queries to Eaton Sales.

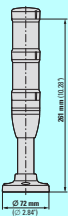


Signal towers SL7



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The Eaton logo consists of the word "EATON" in a bold, blue, sans-serif font. The letter "O" is stylized with a white dot in the center.

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We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
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With 2012 sales of \$16.3 billion, Eaton has approximately 103,000 employees around the world and sells products in more than 175 countries.



Eaton's electrical business

Eaton is a global leader with expertise in:

- Power distribution and circuit protection
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- Solutions for harsh and hazardous environments
- Lighting and security
- Structural solutions and wiring devices
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Eaton is positioned through its global solutions to answer today's most critical electrical power management challenges. With 100 years of electrical experience behind us, we're energized by the challenge of powering up a world that demands twice as much energy as today. We're anticipating needs, engineering products, and creating solutions to energize our markets today and in the future.

We are dedicated to ensuring that reliable, efficient and safe power is available when it's needed most.

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Clearly Eaton!

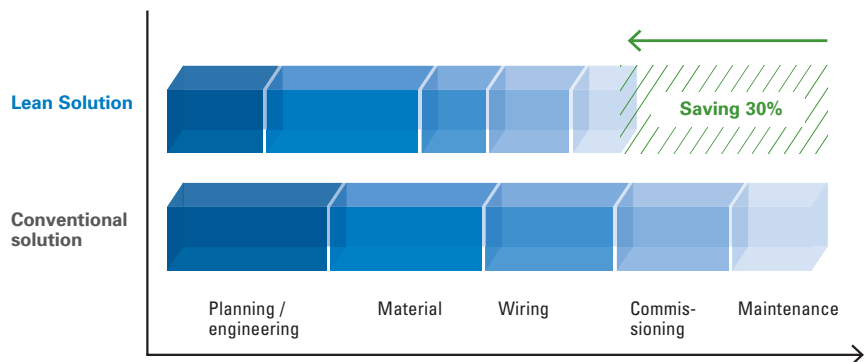
Eaton has the entire machine in view – from the control panel to the peripherals. Its optimized signal towers can now guarantee even better control over all key processes and with it increased availability for your machines.



Clearly MORE EFFICIENT!

An essential part of Eaton's Lean Solution approach, SmartWire-DT is a technology designed to reduce electrical engineering costs for machines by up to 30%. Signal towers are an important component of this technology, since the advance warning function provides information that help the operator avoid potential standstills and increase availability. Potential failures are not just detected in advance by intelligent switchgear, but in fact are also signaled by signal towers with SmartWire-DT.

Example: Savings in every step of the life cycle



Clearly LOVELIER!

An engaging design with smooth curves enhances the appeal of our new signal towers and, together with the control and signal units in the RMQ-Titan range of products, creates a standardized look for machines and systems.



Clearly LOUDER!

Acoustic modules with up to 8 selectable signals, as well as adjustable volume levels (up to 100 dB), make it possible to adapt perfectly to any environment.

Clearly BRIGHTER!



Signal towers indicate machine states by means of visual and acoustic signals. Accordingly, they must be easy to see from a distance, and the information they provide must be clear from the get-go. Orange has been added to the colors shown in order to comply with international standards. More importantly, Eaton has improved its signal towers exactly where it counts. High-performance LEDs provide a level of brightness that will be reliably seen even under extremely adverse conditions. Benefit from better attention-getting power, stronger brightness and higher volumes as well as multiple tone variants to identify faults unambiguously or even help prevent them from occurring at all.

Clearly MORE COMPACT!



Eaton signal towers have been designed with flexibility in mind so that they can be used regardless of adverse installation conditions, such as the lack of ceiling clearance and situations that require different signals on the right or left-hand side. Both signal tower sizes can also be installed vertically with up to 5 elements per side.

Clearly MORE FLEXIBLE!



Our new signal towers can be flexibly installed in any of 9 different ways. In addition to the option of mounting them on the side, there are various options for mounting the cup-shaped base directly, as well as a variety of tube mounting options. In addition, tubes with lengths of 100, 250, and 400 mm make mounting even more flexible.

Clearly STURDIER!

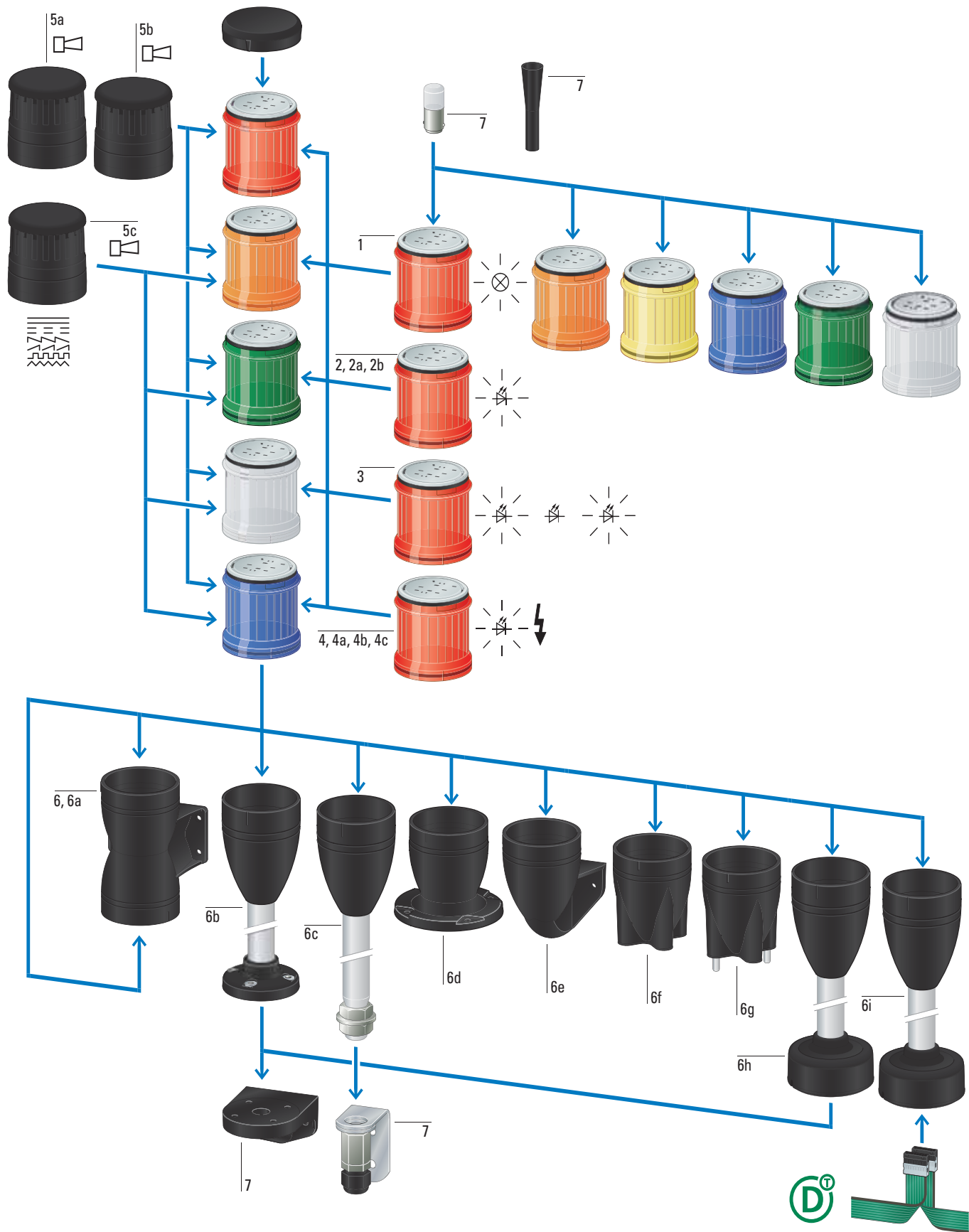
With a high IP66 degree of protection, our signal towers provide perfect protection even against water jets from all directions. These signal towers are meant for worldwide use. Type approvals and certifications for Europe and North American have already been obtained, and ship classifications and CCC are currently pending.



Mounting and dismantling of protruding signal towers can be a major effort, particularly when transporting machines. The new rapid-mount system speeds up that process by up to 50%.






The transportation cover protects cables and terminals.


System overview



Card for filament lamp, continuous light	1	Card with LED	4a	Base module	6
Without light element (filament lamp with BA15d socket)		with LED		Easy mounting with bayonet mount	
Easy mounting with bayonet mount		Flashing frequency 1.4 Hz		Degree of protection IP66	
Modules can be arranged in any order		→ page 10		Including cover plate	
Degree of protection IP66		Card with high-output LED	4b	With spring-cage terminals	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		with High Performance LED		Base for mounting on both sides	6a
Operating mode: 100 % DF (duty factor)		Flashing frequency 1.4 Hz		→ page 14	
→ page 11		→ page 11		Base with aluminium tube and plastic foot	6b
Card with LED, continuous light	2	Card with high-output LED	4c	Aluminium tube 100 mm, 250 mm or 400 mm	
Easy mounting with bayonet mount		with High Performance LED with various strobe sequences		→ page 13	
Modules can be arranged in any order		Flashing frequency 1 - 2.6 Hz		Base with aluminum tube and banjo bolt	6c
Degree of protection IP66		→ page 11		Aluminium tube 100 mm, 250 mm or 400 mm	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		Acoustic module	5	→ page 13	
Operating mode: 100 % DF (duty factor)		Easy mounting with bayonet mount		Base with external fixing holes	6 d
→ page 11		Set up as topmost module		→ page 13	
Card with LED	2a	Max. 2 x 1 modules that can be actuated separately (two with base module SL7-CB-D only)		One-sided base with bracket	6e
with LED		Permanently integrated cover plate		→ page 14	
→ page 8		Degree of protection IP66		Base with internal (on the inside) fixing holes	6f
Card with high-output LED	2b	Operating mode: 100 % DF (duty factor)		→ page 13	
with High Performance LED		sound pressure 100 db, adjustable with internal potentiometer		Base with built-in (pre-assembled) fixing screws	6g
→ page 11		Acoustic module	5a	→ page 13	
Card with LED, flashing light	3	Continuous tone or pulsed tone, adjustable with internal dip switches		Base with base adapter for slipping onto place (rapid mounting and wiring system)	6h
with LED		Frequency: 2800 Hz		Aluminium tube 100 mm, 250 mm or 400 mm	
Easy mounting with bayonet mount		→ page 12		→ page 13	
Modules can be arranged in any order		Acoustic module	5b	Base with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT connection	6i
Degree of protection IP66		Multi-tone (8 tones) adjustable with internal dip switch		Aluminium tube 100 mm	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		Frequency 500 - 2700 Hz		→ page 13	
Operating mode: 100 % DF (duty factor)		→ page 12		Base with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT connection	6i
Flashing frequency 2 Hz		Acoustic module	5c	Aluminium tube 100 mm	
→ page 9		Continuous tone or pulsed tone; can be actuated externally; takes up 2 inputs (2 modules)		→ page 13	
Card with LED, strobe light	4	Frequency: 2800 Hz		Accessory Considerations	7
Easy mounting with bayonet mount		→ page 12		Mounting brackets	
Modules can be arranged in any order		Acoustic module	5c	Including mounting bracket M20 cable gland	
Degree of protection IP66		Continuous tone or pulsed tone; can be actuated externally; takes up 2 inputs (2 modules)		Tool for replacing filament lamp	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		Frequency: 2800 Hz		Filament lamp	
Operating mode: 100 % DF (duty factor)		→ page 12		→ page 14	

Ordering

	Rated operational voltage U_e V	Number of modules	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Complete devices							
	24 V AC/DC	2			SL7-100-L-RG-24LED 171424		1 off 
		3			SL7-100-L-RYG-24LED 171425		
Customised complete unit							
Order on request, * = Freely selectable customer identification or stock no., Maximum 10 characters					SL7-COMBINATION-* 171386		1 off

	Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card with LED						
	24 V AC/DC			SL7-L24-B 171461		1 off 
				SL7-L24-G 171462		
				SL7-L24-R 171463		
				SL7-L24-W 171464		
				SL7-L24-Y 171465		
				SL7-L24-A 171466		
	110/120 V AC			SL7-L120-B 171467		
				SL7-L120-G 171468		
				SL7-L120-R 171469		
				SL7-L120-W 171470		
				SL7-L120-Y 171471		
				SL7-L120-A 171472		
	230/240 V AC			SL7-L230-B 171473		
				SL7-L230-G 171474		
				SL7-L230-R 171475		
				SL7-L230-W 171476		
				SL7-L230-Y 171477		
				SL7-L230-A 171426		
























Notes

Information relevant for export to North America 

Product Standards IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
 UL File No. E29184
 UL CCN NKCR

CSA File No.
 CSA Class No.
 NA Certification
 Degree of Protection

UL report applies to both US and Canada
 NKCR7
 UL listed, certified by UL for use in Canada
 UL Type 4, 4X, 13

	Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card with LED						
 <p>Flashing light IP66 2 Hz</p>	24 V AC/DC		  	SL7-BL24-B 171439		1 off  
				SL7-BL24-G 171440		
				SL7-BL24-R 171441		
				SL7-BL24-W 171442		
				SL7-BL24-Y 171388		
				SL7-BL24-A 171389		
	110/120 V AC		SL7-BL120-B 171390			
			SL7-BL120-G 171391			
			SL7-BL120-R 171392			
			SL7-BL120-W 171393			
			SL7-BL120-Y 171394			
			SL7-BL120-A 171395			
	230/240 V AC		SL7-BL230-B 171396			
			SL7-BL230-G 171397			
			SL7-BL230-R 171398			
			SL7-BL230-W 171399			
			SL7-BL230-Y 171400			
			SL7-BL230-A 171401			

Notes

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Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
NA Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13



































	Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card with LED						
 <p>Strobe light IP66 1.4 Hz</p>	24 V AC/DC			SL7-FL24-B 171402		1 off  
				SL7-FL24-G 171403		
				SL7-FL24-R 171404		
				SL7-FL24-W 171405		
				SL7-FL24-Y 171406		
				SL7-FL24-A 171407		
	110/120 V AC			SL7-FL120-B 171408		
				SL7-FL120-G 171409		
				SL7-FL120-R 171410		
				SL7-FL120-W 171411		
				SL7-FL120-Y 171412		
				SL7-FL120-A 171413		
	230/240 V AC			SL7-FL230-B 171414		
				SL7-FL230-G 171415		
				SL7-FL230-R 171416		
				SL7-FL230-W 171417		
				SL7-FL230-Y 171418		
				SL7-FL230-A 171419		

Notes

Information relevant for export to North America










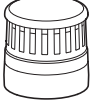




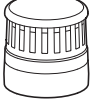




Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
NA Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

		Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card with high-output LED							
	Continuous light IP66 High-performance LED for maximum signaling effect High Performance LED	24 V AC/DC			SL7-L24-B-HP 171427		1 off  
					SL7-L24-G-HP 171428		
					SL7-L24-R-HP 171429		
					SL7-L24-W-HP 171430		
					SL7-L24-Y-HP 171431		
					SL7-L24-A-HP 171432		
	Strobe light IP66 High-performance LED for maximum signaling effect High Performance LED 1.4 Hz	24 V AC/DC			SL7-FL24-B-HP 171420		
					SL7-FL24-G-HP 171421		
					SL7-FL24-R-HP 171422		
					SL7-FL24-W-HP 171423		
					SL7-FL24-Y-HP 171273		
					SL7-FL24-A-HP 171274		
	Multistrobe light IP66 High-performance LED for maximum signaling effect High Performance LED 1 - 2.6 Hz	24 V AC/DC			SL7-FL24-B-HPM 171275		
					SL7-FL24-G-HPM 171276		
					SL7-FL24-R-HPM 171277		
					SL7-FL24-W-HPM 171278		
					SL7-FL24-Y-HPM 171279		
					SL7-FL24-A-HPM 171280		
Card for filament lamp							
	Continuous light IP66 without light elements Filament lamp max. 7 W Filament bulbs → page 14	< 250 V AC/DC			SL7-L-B 171433	1 off  	
					SL7-L-G 171434		
					SL7-L-R 171435		
					SL7-L-W 171436		
					SL7-L-Y 171437		
					SL7-L-A 171438		



Notes

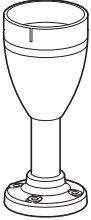


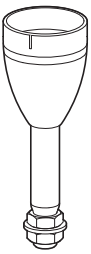



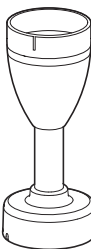

Information relevant for export to North America

 	
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CSA Class No.	NKCR7
NA Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

	Rated operational voltage U_e V	Rated operational current I_e mA	Colour	Function	Sound type	Part no. Article no.	Price see price list	Std. pack
Acoustic modules								
Continuous tone or pulsed tone, adjustable with internal dip switches. Sound pressure 100 db, adjustable with internal potentiometer. $f = 2800$ Hz Place only at the highest position on a pole IP66								
	24 V AC/DC	max. 92	■			SL7-AP24 171281		1 off  
	110/120 V AC	max. 41	■			SL7-AP120 171282		
	230/240 V AC	max. 43	■			SL7-AP230 171283		
Continuous tone or pulsed tone, external actuation. Assigned two inputs (2 modules). Sound pressure 100 db, adjustable with internal potentiometer. $f = 2800$ Hz Place only at the highest position on a pole IP66								
	24 V AC/DC	max. 92	■			SL7-AP24-E 171284		1 off  
	110/120 V AC	max. 41	■			SL7-AP120-E 171285		
	230/240 V AC	max. 43	■			SL7-AP230-E 171286		
Multi-tone; 8 tones, adjustable with internal dip switch. Sound pressure 100 db, adjustable with internal potentiometer. $f = 500 - 2700$ Hz Place only at the highest position on a pole IP66								
	24 V AC/DC	max. 115	■			SL7-AP24-M 171287		1 off  
	110/120 V AC	max. 45	■			SL7-AP120-M 171288		
	230/240 V AC	max. 43	■			SL7-AP230-M 171289		



Notes**Information relevant for export to North America**







 	
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CSA Class No.	NKCR7
NA Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

	Tube length	Colour	For use with	Part no. Article no.	Price see price list	Std. pack
Basic modules						
for horizontal mounting including cover max. 5 modules						
	Base with aluminium tube and plastic foot Spring-loaded terminals	100 mm	black Aluminum color tube	SL7-L-... SL7-BL-... SL7-FL-... SL7-AP-...	SL7-CB-100 171443	1 off  
		250 mm			SL7-CB-250 171444	
		400 mm			SL7-CB-400 171445	
	Base with aluminum tube and banjo bolt Spring-loaded terminals	100 mm		SL7-CB-T-100 171452		
		250 mm		SL7-CB-T-250 171453		
		400 mm		SL7-CB-T-400 171454		
	Base with internal (on the inside) fixing holes Spring-loaded terminals	-	black	SL7-CB-IMH¹⁾ 171447		
	Base with built-in (pre-assembled) fixing screws Spring-loaded terminals	-		SL7-CB-IMS 171448		
	Base with external fixing holes Spring-loaded terminals	-		SL7-CB-EMH 171449		
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Screw terminals	100 mm	black Aluminum color tube	SL7-FMS-100 171456		
		250 mm		SL7-FMS-250 171457		
		400 mm		SL7-FMS-400 171458		
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Blade terminal SWD4-8MF2 max. 0.3 A per module External power supply connectable (24 V DC) Configurable with SWD-Assist (planning and ordering help)	100 mm		SL7-SWD²⁾ 171459		




Notes




Information relevant for export to North America


 					
Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking	¹⁾ Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking	²⁾ Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184	UL File No.	E29184	NA Certification	Request filed for UL and CSA
UL CCN	NKCR	UL CCN	NKCR	Degree of Protection	UL Type 4, 4X, 13
CSA File No.	UL report applies to both US and Canada	CSA File No.	UL report applies to both US and Canada		
CSA Class No.	NKCR7	CSA Class No.	NKCR7		
NA Certification	UL listed, certified by UL for use in Canada	NA Certification	UL listed, certified by UL for use in Canada		
Degree of Protection	UL Type 4, 4X, 13	Degree of Protection	UL Type 1		


	Colour	For use with	Part no. Article no.	Price see price list	Std. pack
Basic modules					
for vertical mounting, including cover, max. 5 modules					
	One-sided base with bracket Spring-loaded terminals	black	SL7-L-... SL7-BL-... SL7-FL-... SL7-AP-...	SL7-CB-FW 171450	1 off  
for vertical mounting on both sides, including cover, max. 2 x 5 modules					
	Base with external fixing holes Spring-loaded terminals	black	SL7-L-... SL7-BL-... SL7-FL-... SL7-AP-...	SL7-CB-D 171451	1 off  



lifespan	Rated operational voltage	Power	For use with	Part no. Article no.	Price see price list	Std. pack
h	U _e V					

Mounting brackets						
for vertical mounting, Plastic						
	-	-	SL4-PIB-... SL7-CB-...	SL7/4-FW 171446		1 off  

Including mounting bracket M20 cable gland						
for vertical mounting, Metal						
	-	-	SL4-PIB-T-... SL7-CB-T-...	SL7/4-FW-T 171455		1 off  

Tool for replacing filament lamp						
	-	-	-	SL7/4-BET 171294		1 off

Filament bulbs						
Mounting: Ba15d						
	> 3000	12 V	5 W	SL7-L-...	SL7-L12 171290	1 off
		24 V	6.5 W		SL7-L24 171291	
		120 V	7 W		SL7-L120 171292	
		230 V	6.5 W		SL7-L230 171293	

Notes	Information relevant for export to North America	
	 	
	Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
	UL File No.	E29184
	UL CCN	NKCR
	CSA File No.	UL report applies to both US and Canada
	CSA Class No.	NKCR7
	NA Certification	UL listed, certified by UL for use in Canada
	Degree of Protection	UL Type 4, 4X, 13

Technical data

			SL7-...
General			
Standards			IEC/EN 60947-5-1
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60069-2-30
Mounting position			As required
Mechanical shock resistance		g	> 15 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal
IEC degree of protection			IP66 IEC/EN 60529
Protection type UL			Type 4, 4X, 13
Material			Enclosure: Polycarbonate (PC), black Cap: Polycarbonate (PC)
Cap colour			blue, green, red, clear, yellow, orange
Ambient temperature		°C	-30 - +60
Number of signal elements			Max. 5 with standard base Max. 10 with base for mounting on both sides
Terminal capacity			
Solid or flexible conductor		mm ²	0.13 - 2.5
Flexible with ferrule with plastic collar		mm ²	0.25 - 1.5
			AWG 24 - AWG 14
Contacts			
Rated impulse withstand voltage	U_{imp}	V AC	4000
Rated insulation voltage	U_i	V	250
Overtoltage category/pollution degree			III/3

			SL7-L-...-...	SL7-BL-...-...	SL7-FL-...-...	SL7-L24-...-HP	SL7-FL24-...-HP	SL7-FL24-...-HPM	SL7-L-...
Module									
Type of light			Continuous light	Flashing light	Strobe light	Continuous light	Strobe light	Multistrobe light	Continuous light
Light elements			LED			High Performance LED			Filament lamp max. 7 W
Mounting			-	-	-	-	-	-	Ba15d
Flashing/strobe frequency			-	2 Hz	1.4 Hz	-	1.4 Hz	1 - 2.6 Hz	-
Transmission angle			360°						
Leakage current	A		< 0.003						
Current-/power consumption									
24 V AC/DC	A		0.049 - 0.054	0.058	0.130 - 0.135	0.170 - 0.200	0.260 - 0.265	0.260 - 0.265	-
110/120 V AC	A		0.028 - 0.031	0.028 - 0.030	0.010	-	-	-	-
230/240V AC	A		0.027 - 0.028	0.030 - 0.031	0.010	-	-	-	-
Power consumption			-	-	-	-	-	-	Max. 7 W with the specified voltages
Voltage levels			24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %			18-30 V DC/18-26 V AC			up to 250 V AC/DC
lifespan	h		> 100000			> 50000			> 3000
Weight	g		80						

			SL7-AP...	SL7-AP...-E	SL7-AP...-M
Acoustic modules					
Type of tone			Continuous or pulsed tone	Continuous or pulsed tone	Continuous or pulsed tone 8 types of sound
Types of sound			2 versions, table of sound types	2 versions, table of sound types	8 versions, table of sound types
Sound setting			Internal; 1 pole DIP	can be externally actuated	Internal; 3 pole DIP
Sound pressure		dB	100	100	100
Sound pressure level adjustment			Built-in, potentiometer	Built-in, potentiometer	Built-in, potentiometer
Sound pressure can be lowered to a minimum of			88 dB	88 dB	88 dB
Transmission angle			360°	360°	360°
Current-/power consumption					
24 V AC/DC		A	0.092	0.092	0.115
110 /120 V AC		A	0.041	0.041	0.045
230 /240V AC		A	0.043	0.043	0.043
Voltage levels					
			24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %	24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %	24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %
Weight		g	102	102	102

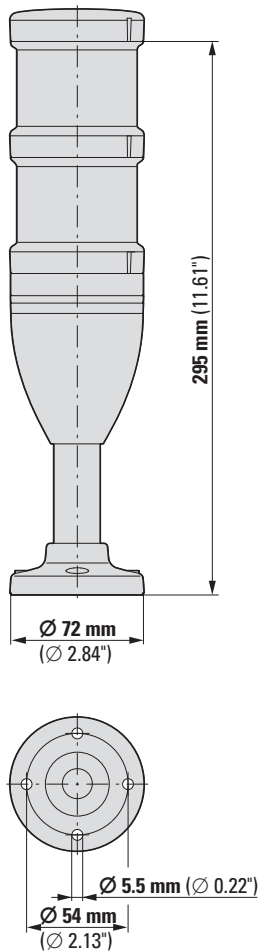
Table of sound types

	Sound type	Frequency Hz	Diagram	Repeat rate	Special application	Max. volume dB
SL7-AP...	Continuous tone	approx. 2800		-	-	100
	Pulsed tone	approx. 2800		approx. 2 Hz	-	100
SL7-AP...-E	Continuous tone	approx. 2800		-	-	100
	Pulsed tone	approx. 2800		approx. 2 Hz	-	100
SL7-AP...-M	Continuous tone	2700		-	-	100
	Continuous tone	1350		-	-	100
	Pulsed tone	2700		250 ms on, 250 ms off	-	100
	Pulsed tone	1350		250 ms on, 250 ms off	-	100
	falling	1200 - 500		1 Hz	Evacuation, Germany, DIN 3304-3	98
	Rising	500 - 1200		Rising 3 s, 0.5 s off	Netherlands NEN 2575:2000	98
	Alternating	800 - 1000		2 Hz		94
	rising/falling	500 - 1500		10 Hz		94

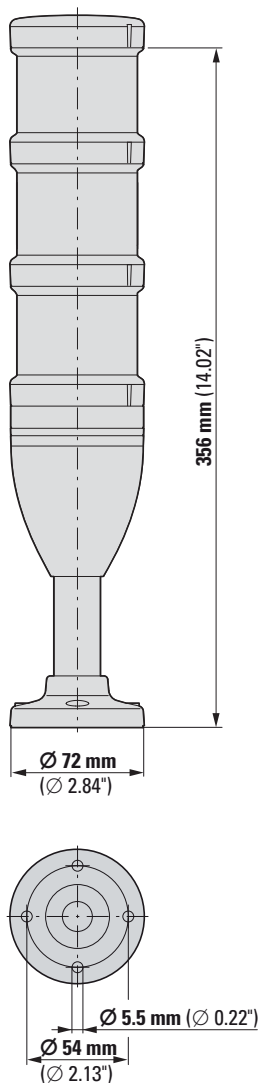
Dimensions

Complete devices

SL7-100-L-RG-24LED

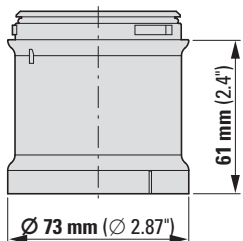


SL7-100-L-RYG-24LED



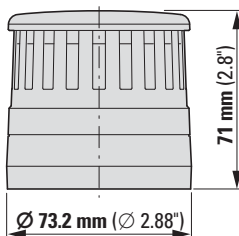
Light modules

SL7-(B)(F)L ...



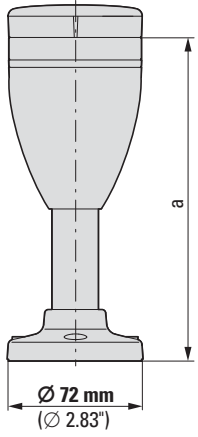
Acoustic modules

SL7-AP...

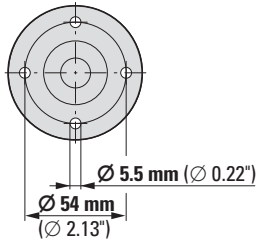


Basic modules

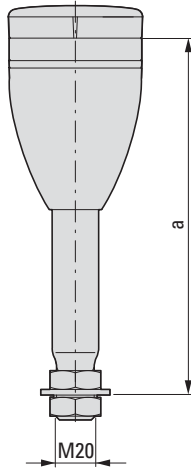
SL7-CB-...



Part no.	a mm (inch)
SL7-CB-100	171 (6.73)
SL7-CB-250	321 (12.64)
SL7-CB-400	471 (18.54)

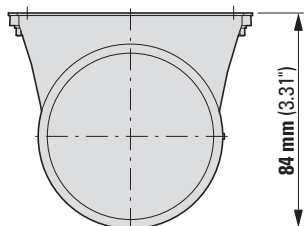
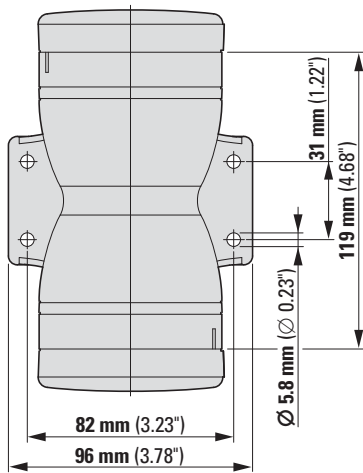


SL7-CB-T-...

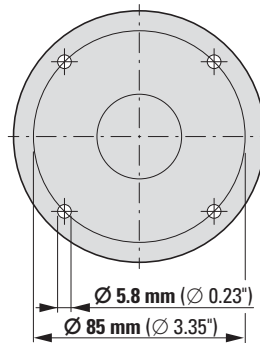
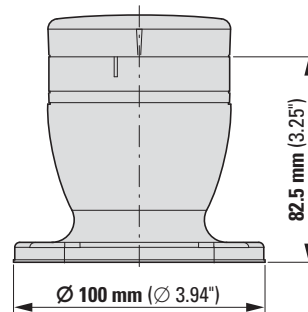


Part no.	a mm (inch)
SL7-CB-T-100	190 (7.48)
SL7-CB-T-250	340 (13.38)
SL7-CB-T-400	490 (19.29)

SL7-CB-D

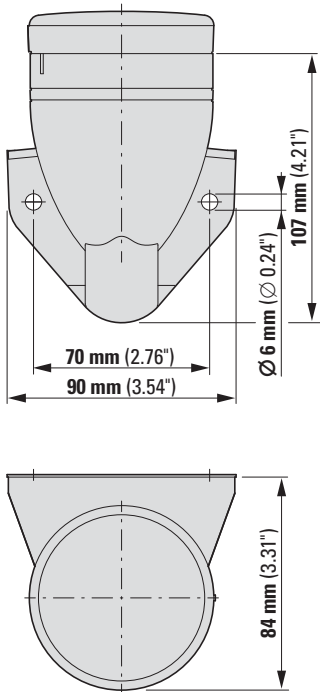


SL7-CB-EMH

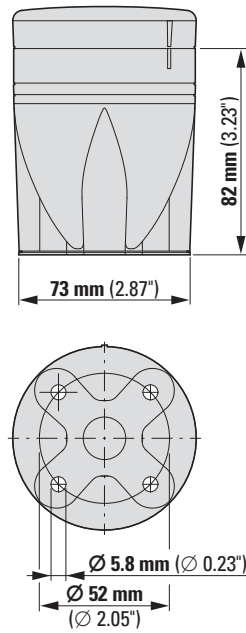


Basic modules

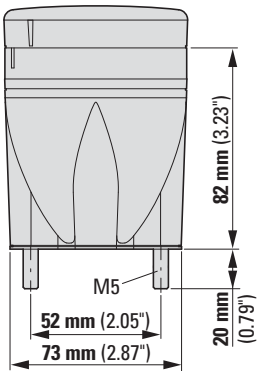
SL7-CB-FW



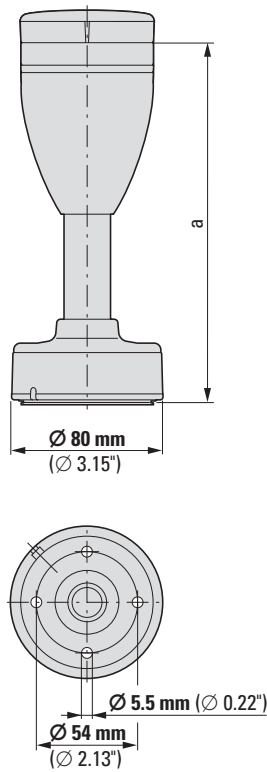
SL7-CB-IMH



SL7-CB-IMS



SL7-FMS-...



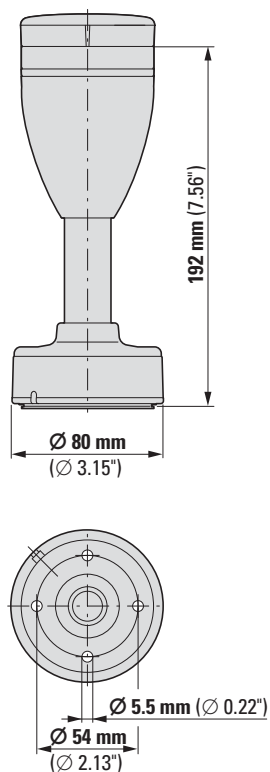
Part no.	a mm (inch)
SL7-FMS-100	192 (7.55)
SL7-FMS-250	342 (13.46)
SL7-FMS-400	492 (19.37)

20 Signal towers

SL7

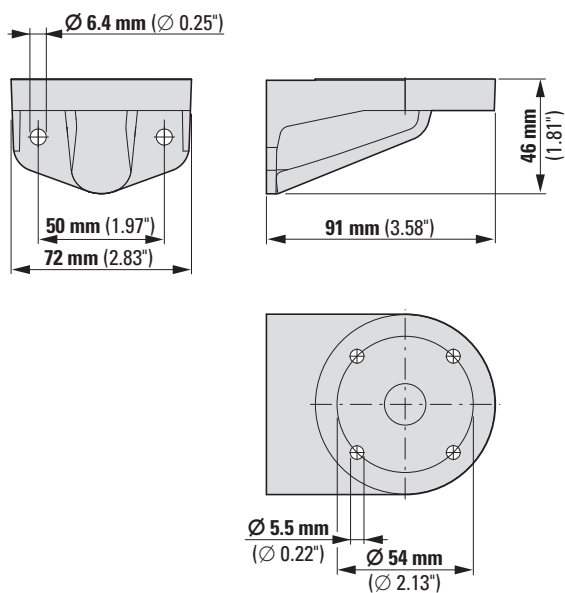
Base module for connecting to SmartWire-DT®

SL7-SWD

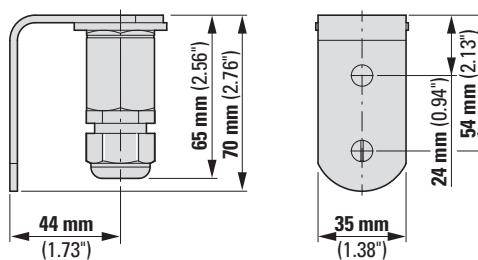


Mounting brackets

SL7/4-FW

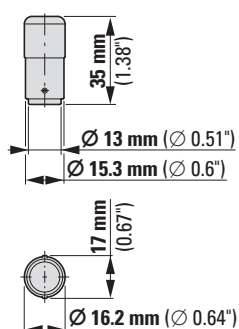


SL7/4-FW-T



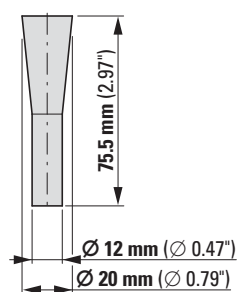
Filament bulbs

SL7-L12

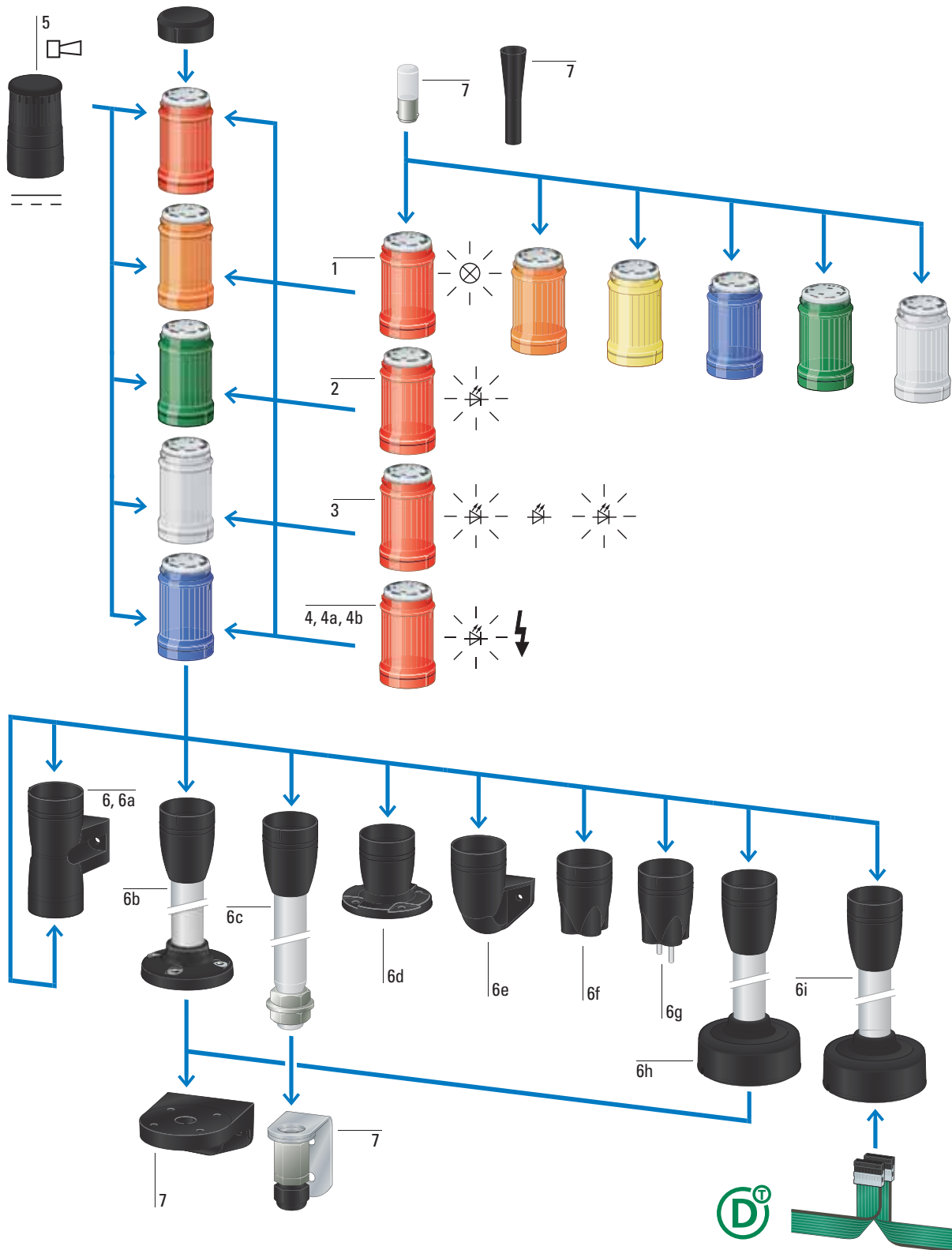


Tool for replacing filament lamp

SL7/4-BET

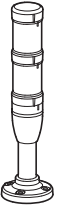






System overview




Card for filament lamp, continuous light	1	Acoustic module	5	Base with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT connection	6i
Without light element (filament lamp with BA15d socket)		Continuous tone or pulsed tone, adjustable with internal dip switches		Aluminium tube 100 mm	
Easy mounting with bayonet mount		Sound pressure 80 dB, adjustable with internal potentiometer, frequency 4000 Hz		→ page 28	
Modules can be arranged in any order		Easy mounting with bayonet mount			
Degree of protection IP66		Set up as topmost module		Accessory Considerations	7
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		Max. 2 x 1 modules that can be individually actuated (two with base module SL7-CB-D only)		Mounting brackets	
Operating mode: 100 % DF (duty factor)		Permanently integrated cover plate		Including mounting bracket M20 cable gland	
→ page 27		Degree of protection IP66		Tool for replacing filament lamp	
		Operating mode: 100 % DF (duty factor)		Filament lamp	
		→ page 27		→ page 29	
Card with LED, continuous light	2	Base module	6		
with LED		Easy mounting with bayonet mount			
Easy mounting with bayonet mount		Degree of protection IP66			
Modules can be arranged in any order		Including cover plate			
Degree of protection IP66		with Push in terminals			
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		Base for mounting on both sides	6a		
Operating mode: 100 % DF (duty factor)		→ page 29			
→ page 24		Base with aluminium tube and plastic foot	6b		
		Aluminium tube 100 mm, 250 mm or 400 mm			
		→ page 28			
Card with LED, flashing light	3	Base with aluminum tube and banjo bolt	6c		
with LED		Aluminium tube 100 mm, 250 mm or 400 mm			
Easy mounting with bayonet mount		→ page 28			
Modules can be arranged in any order		Base with external fixing holes	6 d		
Degree of protection IP66		→ page 28			
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		One-sided base with bracket	6e		
Operating mode: 100 % DF (duty factor)		→ page 29			
Flashing frequency 2 Hz		Base with internal (on the inside) fixing holes	6f		
→ page 25		→ page 28			
		Base with built-in (pre-assembled) fixing screws	6g		
Card with LED, strobe light	4	→ page 28			
Easy mounting with bayonet mount		Base with base adapter for slipping onto place (rapid mounting and wiring system)	6h		
Modules can be arranged in any order		Aluminium tube 100 mm, 250 mm or 400 mm			
Degree of protection IP66		→ page 28			
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)					
Operating mode: 100 % DF (duty factor)					
Card with LED	4a				
with LED					
Flashing frequency 1.4 Hz					
→ page 26					
Card with LED	4b				
With LED for effective signaling effect with various flashing sequences					
Flashing frequency approx. 1 -2.6 Hz					
→ page 26					

Ordering

Rated operational voltage U_e V	Number of modules	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Complete devices						
Continuous light, LED, IP66, Base module with foot and 100 mm tube						
	24 V AC/DC	2		SL4-100-L-RG-24LED 171295		1 off  
		3		SL4-100-L-RYG-24LED 171296		
Customised complete unit						
Order on request, * = Freely selectable customer identification or stock no., Maximum 10 characters				SL4-COMBINATION-* 171387		1 off

Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack	
Card with LED						
	24 V AC/DC		SL4-L24-B 171313		1 off  	
			SL4-L24-G 171314			
			SL4-L24-R 171315			
			SL4-L24-W 171316			
			SL4-L24-Y 171317			
			SL4-L24-A 171318			
	110/120 V AC			SL4-L120-B 171319		
				SL4-L120-G 171320		
				SL4-L120-R 171321		
				SL4-L120-W 171322		
				SL4-L120-Y 171323		
				SL4-L120-A 171324		
	230/240 V AC			SL4-L230-B 171325		
				SL4-L230-G 171326		
				SL4-L230-R 171327		
				SL4-L230-W 171328		
				SL4-L230-Y 171329		
				SL4-L230-A 171330		


Notes

Information relevant for export to North America  

Product Standards IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
 UL File No. E29184
 UL CCN NKCR

CSA File No.
 CSA Class No.
 NA Certification
 Degree of Protection

UL report applies to both US and Canada
 NKCR7
 UL listed, certified by UL for use in Canada
 UL Type 4, 4X, 13































	Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card with LED						
	Flashing light IP66 2 Hz	24 V AC/DC			SL4-BL24-B 171337	1 off  
					SL4-BL24-G 171338	
					SL4-BL24-R 171339	
					SL4-BL24-W 171340	
					SL4-BL24-Y 171341	
					SL4-BL24-A 171342	
		110/120 V AC			SL4-BL120-B 171343	
					SL4-BL120-G 171344	
					SL4-BL120-R 171345	
					SL4-BL120-W 171346	
					SL4-BL120-Y 171347	
					SL4-BL120-A 171348	
		230/240 V AC			SL4-BL230-B 171349	
					SL4-BL230-G 171350	
					SL4-BL230-R 171351	
					SL4-BL230-W 171352	
					SL4-BL230-Y 171353	
					SL4-BL230-A 171354	

Notes

Information relevant for export to North America



Product Standards IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
 UL File No. E29184
 UL CCN NKCR
 CSA File No. UL report applies to both US and Canada
 CSA Class No. NKCR7
 NA Certification UL listed, certified by UL for use in Canada
 Degree of Protection UL Type 4, 4X, 13











		Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack			
Card with LED										
	Strobe light IP66 1.4 Hz	24 V AC/DC			SL4-FL24-B 171355		1 off  			
					SL4-FL24-G 171356					
					SL4-FL24-R 171357					
					SL4-FL24-W 171358					
					SL4-FL24-Y 171359					
					SL4-FL24-A 171360					
			110/120 V AC			SL4-FL120-B 171361				
				SL4-FL120-G 171362						
				SL4-FL120-R 171363						
				SL4-FL120-W 171364						
				SL4-FL120-Y 171365						
				SL4-FL120-A 171366						
		230/240 V AC			SL4-FL230-B 171367					
				SL4-FL230-G 171368						
				SL4-FL230-R 171369						
				SL4-FL230-W 171370						
				SL4-FL230-Y 171371						
				SL4-FL230-A 171372						
				Multistrobe light IP66 LED for effective signaling effect With various strobe sequences 1 - 2.6 Hz	24 V AC/DC				SL4-FL24-B-M 171373	
						SL4-FL24-G-M 171374				
						SL4-FL24-R-M 171375				
	SL4-FL24-W-M 171376									
	SL4-FL24-Y-M 171377									
	SL4-FL24-A-M 171378									









Notes

Information relevant for export to North America





Product Standards IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
 UL File No. E29184
 UL CCN NKCR
 CSA File No. UL report applies to both US and Canada
 CSA Class No. NKCR7
 NA Certification UL listed, certified by UL for use in Canada
 Degree of Protection UL Type 4, 4X, 13

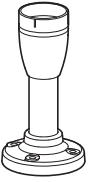


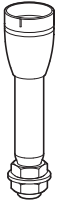



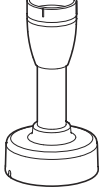

	Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card for filament lamp						
 <p>Continuous light IP66 without light elements Filament lamp max. 4 W Filament bulbs → page 29</p>	< 250 V AC/DC			SL4-L-B 171331		1 off  
				SL4-L-G 171332		
				SL4-L-R 171333		
				SL4-L-W 171334		
				SL4-L-Y 171335		
				SL4-L-A 171336		

	Rated operational voltage U_e V	Rated operational current I_e mA	Colour	Function	Sound type	Part no. Article no.	Price see price list	Std. pack
Acoustic modules								
Continuous tone or pulsed tone, adjustable with internal dip switches. Sound pressure 80 db, adjustable with internal potentiometer. f = 4000 Hz Place only at the highest position on a pole IP66								
	24 V AC/DC	max. 39				SL4-AP24 171379		1 off  
	110/120 V AC	max. 21				SL4-AP120 171380		
	230/240 V AC	max. 21				SL4-AP230 171381		

Notes





Information relevant for export to North America















 	
Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
NA Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

		Tube length	Colour	For use with	Part no. Article no.	Price see price list	Std. pack
Basic modules							
for horizontal mounting including cover max. 5 modules							
	Base with aluminium tube and plastic foot Push in terminals	100 mm	black Aluminum color tube	SL4-L-... SL4-BL-... SL4-FL-... SL4-AP-...	SL4-PIB-100 171297		1 off  
		250 mm			SL4-PIB-250 171298		
		400 mm			SL4-PIB-400 171299		
	Base with aluminum tube and banjo bolt Push in terminals	100 mm			SL4-PIB-T-100 171305		
		250 mm			SL4-PIB-T-250 171306		
		400 mm			SL4-PIB-T-400 171307		
	Base with external fixing holes Push in terminals	-	black		SL4-PIB-EMH 171302		
	Base with internal (on the inside) fixing holes - Push in terminals	-			SL4-PIB-IMH¹⁾ 171300		
	Base with built-in (pre-assembled) fixing screws Push in terminals	-			SL4-PIB-IMS 171301		
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Screw terminals	100 mm	black Aluminum color tube		SL4-FMS-100 171308		
		250 mm			SL4-FMS-250 171309		
		400 mm			SL4-FMS-400 171310		
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Blade terminal SWD4-8MF2 max. 0.3 A per module External power supply connectable (24 V DC) Configurable with SWD-Assist (planning and ordering help)	100 mm			SL4-SWD²⁾ 171311		

Notes

Information relevant for export to North America

 				 	
Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking	¹⁾ Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking	²⁾ Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184	UL File No.	E29184	NA Certification	Request filed for UL and CSA
UL CCN	NKCR	UL CCN	NKCR	Degree of Protection	UL Type 4, 4X, 13
CSA File No.	UL report applies to both US and Canada	CSA File No.	UL report applies to both US and Canada		
CSA Class No.	NKCR7	CSA Class No.	NKCR7		
NA Certification	UL listed, certified by UL for use in Canada	NA Certification	UL listed, certified by UL for use in Canada		
Degree of Protection	UL Type 4, 4X, 13	Degree of Protection	UL Type 1		

	Colour	For use with	Part no. Article no.	Price see price list	Std. pack
Basic modules					
for vertical mounting including cover					
	One-sided base with bracket Push in terminals max. 5 modules	black	SL4-L-... SL4-BL-... SL4-FL-... SL4-AP-...	SL4-PIB-FW 171303	1 off  
for vertical mounting on both sides including cover					
	Base with external fixing holes Push in terminals max. 2 x 5 modules	black	SL4-L-... SL4-BL-... SL4-FL-... SL4-AP-...	SL4-PIB-D 171304	1 off  
Mounting brackets					
for vertical mounting, Plastic					
	-	-	SL4-PIB-... SL7-CB-...	SL7/4-FW 171446	1 off  
Including mounting bracket M20 cable gland					
for vertical mounting, Metal					
	-	-	SL4-PIB-T... SL7-CB-T...	SL7/4-FW-T 171455	1 off  
Tool for replacing filament lamp					
	-	-	-	SL7/4-BET 171294	1 off
Filament bulbs					
Mounting: Ba15d					
	> 3000	12 V 24 V 120 V 230 V	4 W SL4-L-...	SL4-L12 171382 SL4-L24 171383 SL4-L120 171384 SL4-L230 171385	1 off

Notes

Information relevant for export to North America



Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
NA Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

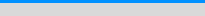
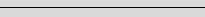
Technical data

			SL4-...
General			
Standards			IEC/EN 60947-5-1
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60069-2-30
Mounting position			As required
Mechanical shock resistance		g	> 15 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal
IEC degree of protection			IP66 IEC/EN 60529
Protection type UL			Type 4, 4X, 13
Material			Enclosure: Polycarbonate (PC), black Cap: Polycarbonate (PC)
Cap colour			blue, green, red, clear, yellow, orange
Ambient temperature		°C	-30 - +60
Number of signal elements			Max. 5 with standard base Max. 10 with base for mounting on both sides
Terminal capacity			
Solid or flexible conductor		mm ²	0.2 - 1.5
Solid or flexible conductor, with ferrule		mm ²	0.25 - 1.5
Flexible with ferrule with plastic collar		mm ²	0.25 - 0.75
			AWG 24 - AWG 16
Contacts			
Rated impulse withstand voltage	U _{imp}	V AC	4000
Rated insulation voltage	U _i	V	250
Overvoltage category/pollution degree			III/3

			SL4-L...-...	SL4-BL...-...	SL4-FL...-...	SL4-FL24...-M	SL4-L...
Light modules							
Type of light			Continuous light	Flashing light	Strobe light	Multistrobe light	Continuous light
Light elements			LED				Filament lamp max. 4 W
Mounting			-	-	-	-	Ba15d
Flashing/strobe frequency			-	2 Hz	1.4 Hz	1 - 2.6 Hz	-
Transmission angle			360°				
Leakage current	A		< 0.003				
Current-/power consumption							
24 V AC/DC	A		0.022 - 0.033	0.028 - 0.036	0.035 - 0.065	0.048 - 0.068	-
110/120 V AC	A		0.030	0.030	0.10	-	-
230/240V AC	A		0.030	0.030	0.10	-	-
Power consumption			-	-	-	-	Max. 4 W with the specified voltages
Voltage levels			24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %			24 V AC/DC ± 10 %	up to 250 V AC/DC
lifespan	h		> 100000				
Weight	g		45				

			SL4-AP...
Acoustic modules			
Type of tone			Continuous or pulsed tone
Types of sound			2 versions, table of sound types
Sound setting			Internal; 1 pole DIP
Sound pressure		dB	80
Sound pressure level adjustment			-
Sound_pressure_can_be_lowered_to_a_minimum_of			-
Transmission angle			360°
Current-/power consumption			
24 V AC/DC		A	0.039
110 /120 V AC		A	0.021
230 /240V AC		A	0.021
Voltage levels			
			24 V AC/DC \pm 10 % 110/120 V AC \pm 10 % 230/240 V AC \pm 10 %
Weight		g	43

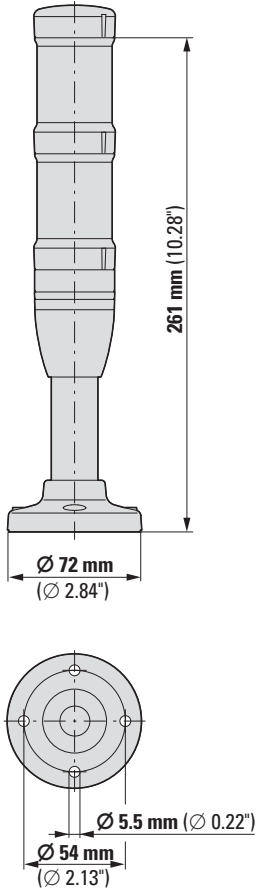
Table of sound types

	Sound type	Frequency Hz	Diagram	Repeat rate	Special application	Max. volume dB
SL4-AP...	Continuous tone	approx. 4000		-	-	80
	Pulsed tone	approx. 4000		approx. 2 Hz	-	80

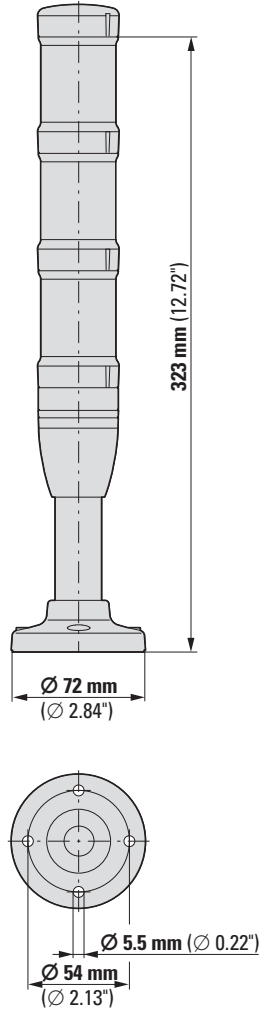
Dimensions

Complete devices

SL4-100-L-RG-24LED

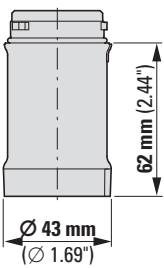


SL4-100-L-RYG-24LED



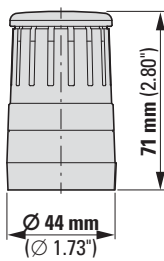
Light modules

SL4-(B)(F)L ...



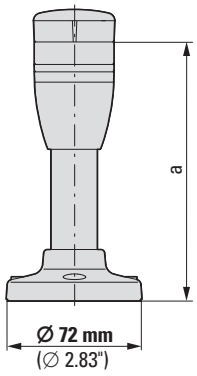
Acoustic modules

SL4-AP...

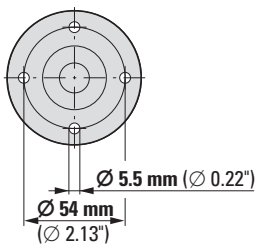


Basic modules

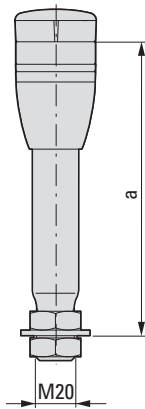
SL4-PIB-...



Part no.	a mm (inch)
SL4-PIB-100	136 (3.53)
SL4-PIB-250	286 (11.26)
SL4-PIB-400	436 (17.16)

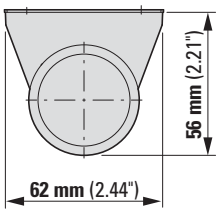
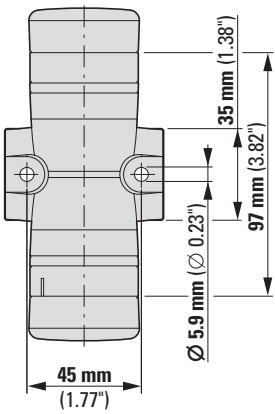


SL4-PIB-T-...

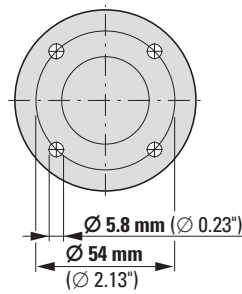
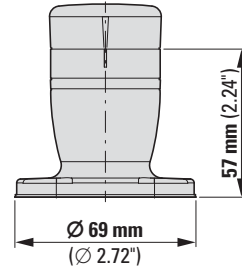


Part no.	a mm (inch)
SL4-PIB-T-100	150 (5.90)
SL4-PIB-T-250	300 (11.81)
SL4-PIB-T-400	450 (17.72)

SL4-PIB-D



SL4-PIB-EMH

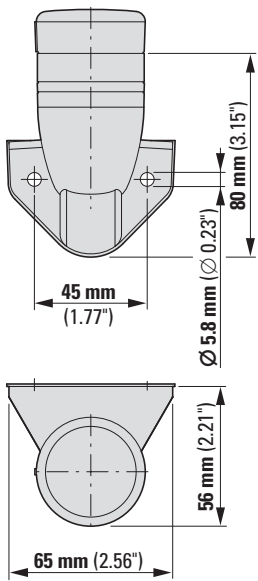


34 Signal towers

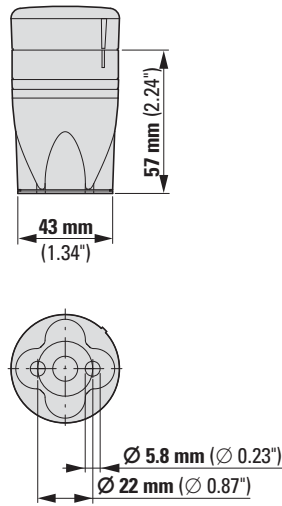
SL4

Basic modules

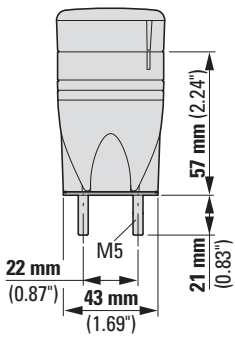
SL4-PIB-FW



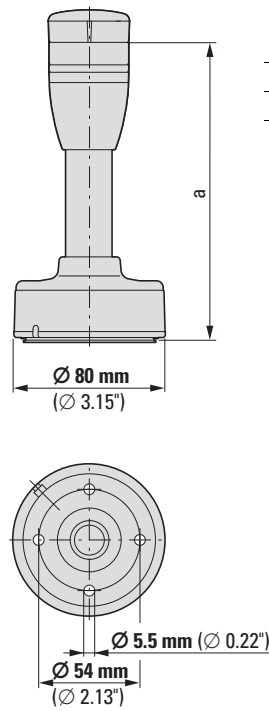
SL4-PIB-IMH



SL4-PIB-IMS



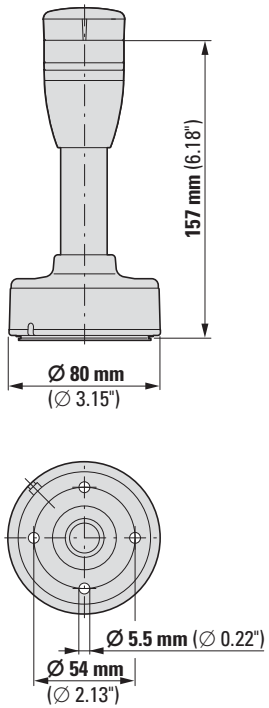
SL4-FMS-...



Part no.	a mm (inch)
SL4-FMS-100	157 (6.18)
SL4-FMS-250	307 (12.09)
SL4-FMS-400	457 (17.99)

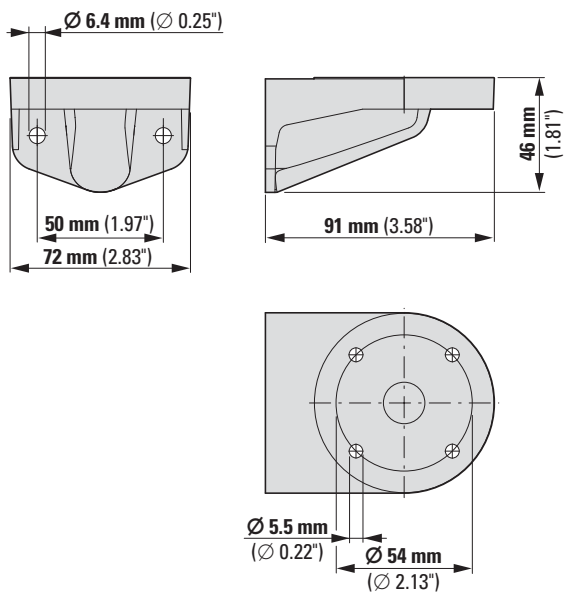
Base module for connecting to SmartWire-DT®

SL4-SWD

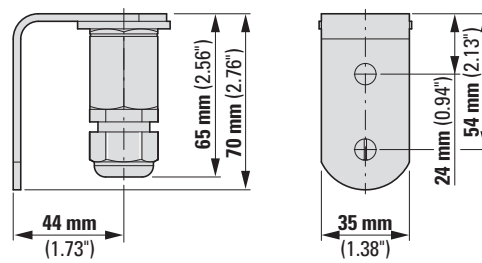


Mounting brackets

SL7/4-FW

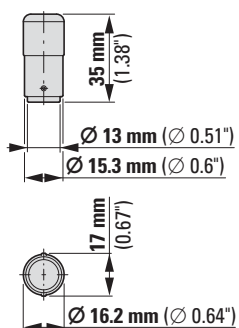


SL7/4-FW-T



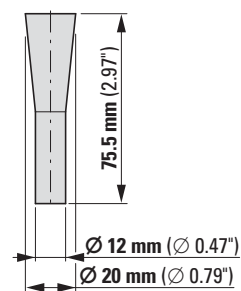
Filament bulbs

SL7-L12



Tool for replacing filament lamp

SL7/4-BET





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