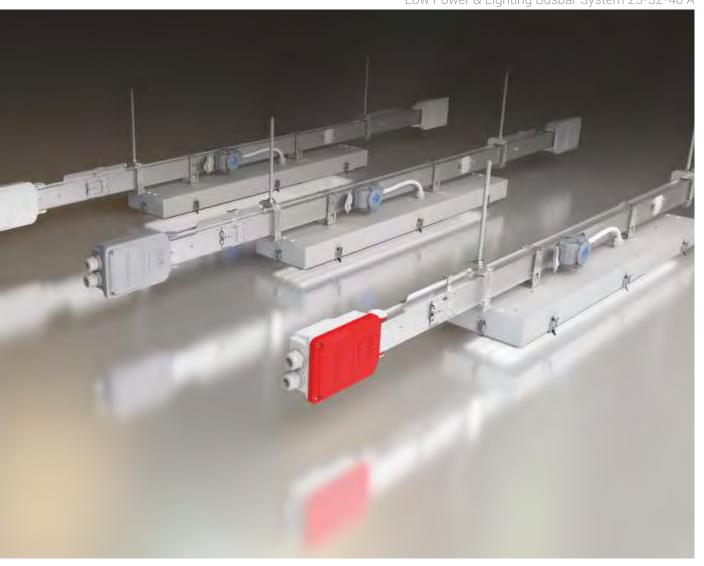


E-LINEDL

Low Power & Lighting Busbar System 25-32-40 A



DL / DL-DALI / DL-DIM LIGHTING BUSBAR SYSTEM TECHNICAL SUMMARY TABLE (IEC 61439-6)

		BUSBAR OUTLET PLUG-IN										
GROUP LINE	DESCRIPTION	DISTRIBUTION Structure	C.	APACIT (A)	ГҮ	STD.LENGTH (mm)	LOCATION	FUNCTION	DISTANCE (mm)	QUANTITY (pc.)	BODY	CONDUCTOR (*1)
1	DL	3P+N+PE 3P+N+PE+CE	25	32	40	3000	FRONT BACK	Power	750	4	nized sheet static Paint optional	d full tion
2	DL-DALI	3P+N+PE	25	32	40	3000	FRONT BACK	Power Dali + Kit	750	4	Galvar Elektro 38) is	plated and ful igth insulation
3	DL-DIM (*2)	3P+N+PE	25	32	40	3000	FRONT BACK	Power Sensor + Control	750	4	0,5 mm metal , E (RAL 70	Tin plat length

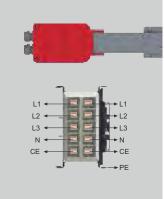
1	AP-C)FF			RATED CURRE	NT ^(*3))		CABLE			
			UNFUSED				FUSED			TYPE		LENGTH ^(*5)
(Plug-Box)		(A)	SYMBOL	TYPE	(A)	SYMBOL	TYPE	(mm²)	Halogen Free	Standard (PVC)	(m)	
			10	BL	L/N/PE				3x0,75	052XZ1-F	-	0,75
				В	L/N/PE(CE) 3P/N/PE(CE)	-	-	-	3x1,5 5x1,5	052XZ1-F 052XZ1-F	NYMHY NYMHY	0,75 0,75
Colour Coded Covers indicate the phases, Special Lock Mechanism and Earthing Safety	ᆸ	PLUG	16	К	L/N/PE(CE) 3P/N/PE(CE)	16	FS	L/N/PE(CE)	-	-	-	-
peci		вох	вох -			25	S	Empty(*4)			-	-
s, S fety				-	-	16	FS	10x38mm	-	-		
hase g S a		PLUG (Feeder)		В	L/N/PE	-	-	-	3x1,5	052XZ1-F	NYMHY	0,75
e the p Earthin				K	L/N/PE 3P/N/PE	16	FS	L/N/PE 3P/N/PE	-	-	-	-
dicat and I	Æ	PLUG	DLUC	В	D1/D2	-	-	-	2x1,5	052XZ1-F	NYMHY	0,75
S in	DL-DALI	(Control)	16	K	D1/D2	-	-	=	-	-	-	-
ove hani		DALI	10	B _{Emg.}	$D1/L_{Emg}/N_{Emg}/D2$	-	-	-	4x1,5	052XZ1-F	NYMHY	0,75
Mec		Emergency		K _{Emg.}	$D1/L_{Emg}/N_{Emg}/D2$	-	-	-	-	-	-	-
Sode		Kit	-	-	-	16	$FS_{Emg.}$	D1/L/N/D2	-	-	-	-
) II	5)	PLUG (Feed)		В	L/N/PE	-	-	-	3x1,5	052XZ1-F	NYMHY	0,75
Col	*) E	PLUG	16	K (1,2,3)	K(1,2,3)/N	-	-	-	2x1,5	052XZ1-F	NYMHY	0,75
	DL-DIM (*2)	(Control) SENSOR	10	S (1,2,3)	K(1,2,3)/P/N	-	-	=	3x1,5	052XZ1-F	NYMHY	0,75
		Emergency Kit		K (1,2,3)-ACK	K(1,2,3)/P/N	-	-	-	3x1,5	052XZ1-F	NYMHY	0,75

DESCRIPTIONS:	SYMBOLS :
(*1) Housing is the PE conductor. Equivalent cross-section area is 5,8 mm². For clean earth (CE), conductor cross-section area is 2,54 mm² for 25A; 3,98 mm² for 32A and 6,16 mm² for 40A.	BL / B Tap-off Plug (Unfused with cable) K Tap-off Plug with Clips (Unfused) FS With cyclindrical fuse (The cyclindrical fuse holder is 5x20 mm. or 10x38 mm. and fuse is not included.)
(*2) DL-DIM busbar is used to DIM the lighting fittings locally which has corridor function ballast.	S Empty, Suitable for MCB usage. (MCB is not included.)
(*3) 10A. (BL) Tap-off Plug / 16A. (B) Tap-off Plug / 16A. (FS) Fused Holder Tap-off Plug / 16A. (K) Tap-off Plug with clips / 25A-S, 16A-FS. Empty Tap-off Box; It can be manufactured with clean earth (CE).	Emg. Emergency kit reference voltage / feed. K (1,2,3) For control side (1st control remote, 2nd control remote, 3nd control remote) S (1,2,3) For Sensor control side (1st sensor remote,
(*4) Included DIN rail. Optionally, can be manufactured with mounted MCB.	2 nd sensor remote, 3 nd sensor remote) ACK Emergency kit unit.
(*5) Cables may be manufactured with the desired length. (Standard length is 0,75m.)	



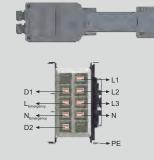
E-LINE DL

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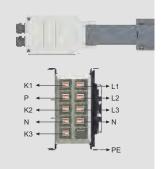
E-LINE DL - DALI

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E-LINE DL - DIM

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E-LINE DL / DL - DALI / DL - DIM

Brackets and Joints Busbar and Fitting Brackets Joint Installation Tap-off Plugs Installation Tap-off Box Installation Technical Specifications Product Overview (DL) Product Overview (DL-DALI) Product Overview (DL-DIM) CE Declaration of Conformity Certificates	37-39 40 41-42 43-45 46 47 48 49 50
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ELINEDL

► General Characteristics

E-Line DL Busbar Distribution Systems are used in building electrical installations with a power requirement of 25 to 40A. 16A output sockets and 25A output boxes are designed to supply lighting and wall socket circuit as per their specifications.

EAE Busbar Systems are produced in accordance with ISO 9001 standards with a certified Quality Assurance System using the world's latest manufacturing technologies. Units are designed and tested according to IEC 61439-6.



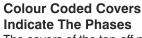
Tap-off Plugs

Tap-off plugs for DL Busbar systems are designed with different contact arrangements.

All the plugs are produced in order to be connected to the busbar in one direction to prevent the use of a wrong phase.

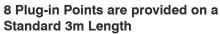
Safety

Earth contacts of the tap-off plugs make first when plugging-in, and the contact breaks last when unplugging.

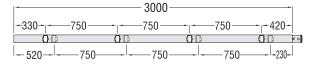


The covers of the tap-off plugs are designed with different colours to indicate which phase the light fittings are fed from.





A total of 8 plug-in points (4 on each side) are provided as standard.





Full Isolation

The busbar conductors are coated in flame-proof insulation material. Total security regarding human safety is provided even when the body is severely damaged due to to external heavy impacts that



Fast, Easy and Secure Assembly

Achieved with single action by driving the mechanical and electrical joint silver coated springed contacts towards each other. The joint is secured by tightening one screw. It is not necessary to install the joint cover to secure the joint.

Tin Coated Conductors

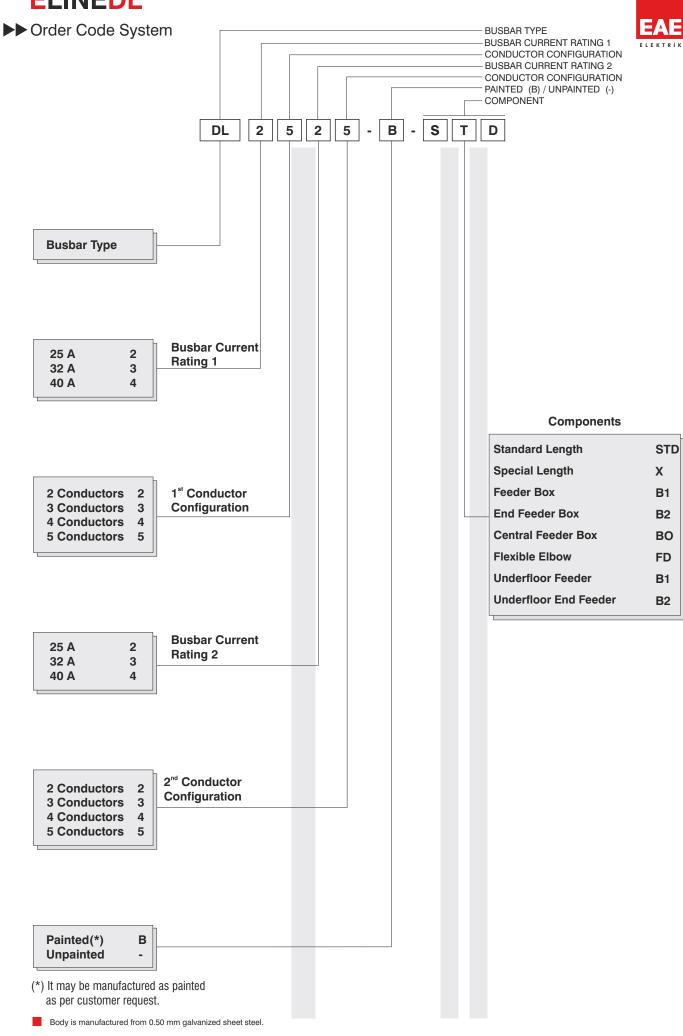
Formation of Copper Oxide is prevented by tin plating the conductors along their full length. This ensures that contact resistances are minimised. The contacts of the tap-off plugs contact the busbar conductors on two surfaces.

Silver Coated Joint Contacts

The contacts at the joints of the busbar and the contacts of all tap-off units are silver coated. The silver coating minimises the contact impedances, thus preventing the over-heating of the contacts in case of possible over-loads.

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ELINEDL

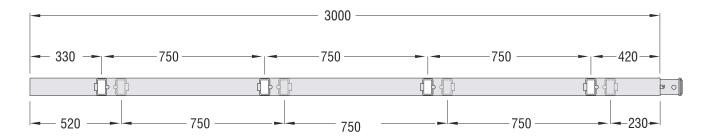


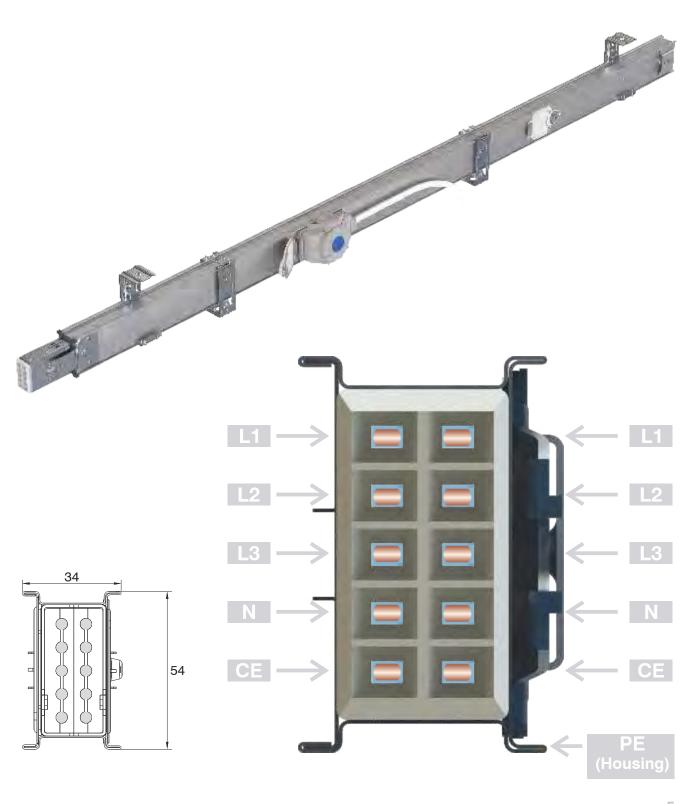
4



► General Product Structure





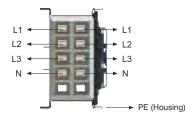


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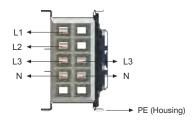


▶▶ Product Selection Tables / Standard Busbars

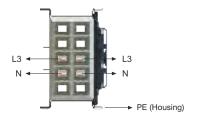




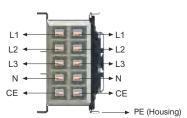
Current (A)	Description	Conductor Conf.	Order Code
25	DL 2424 2x25 A Busbar	4+4	3024786
32	DL 3434 2x32 A Busbar	4+4	3024788
40	DL 4444 2x40 A Busbar	4+4	3024790



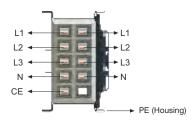
Current (A)	Description	Conductor Conf.	Order Code
25	DL 2422 2x25 A Busbar	4+2	3024792
32	DL 3432 2x32 A Busbar	4+2	3024794
40	DL 4442 2x40 A Busbar	4+2	3024796



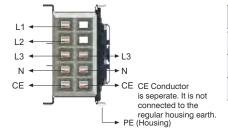
Current (A)	Description	Conductor Conf.	Order Code
25	DL 2222 2x25 A Busbar	2+2	3024798
32	DL 3232 2x32 A Busbar	2+2	3024800
40	DL 4242 2x40 A Busbar	2+2	3024802



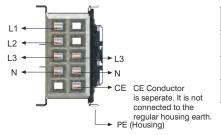
Current (A)	Description	Conductor Conf.	Order Code
25	DL 2525 2x25 A Busbar	5+5	3024804
32	DL 3535 2x32 A Busbar	5+5	3024806
40	DL 4545 2x40 A Busbar	5+5	3024808



Current (A)	Description	Conductor Conf.	Order Code
25	DL 2524 2x25 A Busbar	5+4	3066712
32	DL 3534 2x32 A Busbar	5+4	3066713
40	DL 4544 2x40 A Busbar	5+4	3066714



Current (A)	Description	Conductor Conf.	Order Code
25	DL 2523 2x25 A Busbar	5+3	3024810
32	DL 3533 2x32 A Busbar	5+3	3024812
40	DL 4543 2x40 A Busbar	5+3	3024814



Current (A)	Description	Conductor Conf.	Order Code
25	DL 2423 2x25 A Busbar	4+3	3066718
32	DL 3433 2x32 A Busbar	4+3	3066720
40	DL 4443 2x40 A Busbar	4+3	3066721

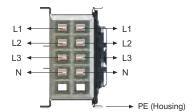
Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

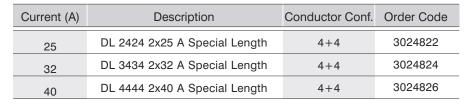


▶▶ Product Selection Tables / Special Straight Length Busbars



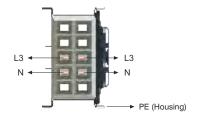


Special Length Busbars are manufactured as 1m/1,5m/2m/2,5m.

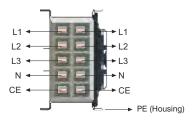


L1
PE (Housing)

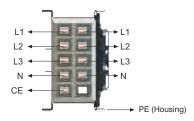
Current (A)	Description	Conductor Conf.	Order Code
25	DL 2422 2x25 A Special Length	4+2	3024828
32	DL 3432 2x32 A Special Length	4+2	3024830
40	DL 4442 2x40 A Special Length	4+2	3024832



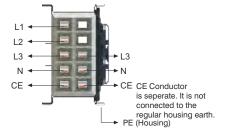
Current (A)	Description	Conductor Conf.	Order Code
25	DL 2222 2x25 A Special Length	2+2	3024834
32	DL 3232 2x32 A Special Length	2+2	3024836
40	DL 4242 2x40 A Special Length	2+2	3024838



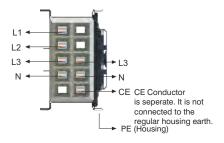
Current (A)	Description	Conductor Conf.	Order Code
25	DL 2525 2x25 A Special Length	5+5	3024840
32	DL 3535 2x32 A Special Length	5+5	3024842
40	DL 4545 2x40 A Special Length	5+5	3024844



Current (A)	Description	Conductor Conf.	Order Code
25	DL 2524 2x25 A Special Length	5+4	3066715
32	DL 3534 2x32 A Special Length	5+4	3066716
40	DL 4544 2x40 A Special Length	5+4	3066717



Current (A)	Description	Conductor Conf.	Order Code
25	DL 2523 2x25 A Special Length	5+3	3024846
32	DL 3533 2x32 A Special Length	5+3	3024848
40	DL 4543 2x40 A Special Length	5+3	3024850



25 21202/1000000 2011911	Current (A)	A) Description	Conductor Conf.	Order Code
32 DL 3433 2x32 A Special Length 4+3 306672	25	DL 2423 2x25 A Special Length	4+3	3066722
	32	DL 3433 2x32 A Special Length	4+3	3066723
40 DL 4443 2x40 A Special Length 4+3 306672	40	DL 4443 2x40 A Special Length	4+3	3066724

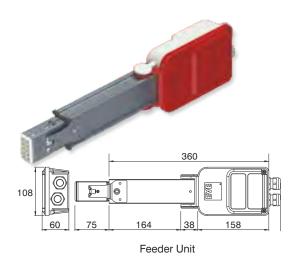
Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.



▶▶ Product Selection Tables / Feeder Units





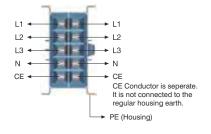
L1 L2 L2 L3 L3 N N CE CE CE CE Conductor is seperate. It is not connected to the regular housing earth. PE (Housing)

(B1) Feeder Units

Current (A)	Description	Busbars	Order Code
25	DL 2525 - B1 Feeder Unit	DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423	3024858
32	DL 3535 - B1 Feeder Unit	DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423	3024860
40	DL 4545 - B1 Feeder Unit	DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443	3024862

^{*} With PE Conductor and M25 Gland as standard.

360 360 108 158 38 164 End Feeder Unit



(B2) End Feeder Units

Current (A)	Description	Busbars	Order Code
25	DL 2525 - B2 End Feeder Unit	DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423	3024864
32	DL 3535 - B2 End Feeder Unit	DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423	3024866
40	DL 4545 - B2 End Feeder Unit	DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443	3024868

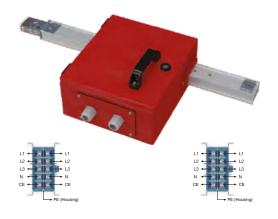
^{*} With PE Conductor and M25 Gland as standard.

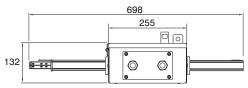
The body is manufactured from 0,50 mm galvanised sheet steel.

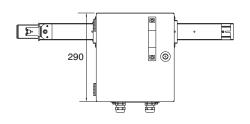
For non-standard product, please contact our technical office.

▶▶ Product Selection Tables / Feeder Units









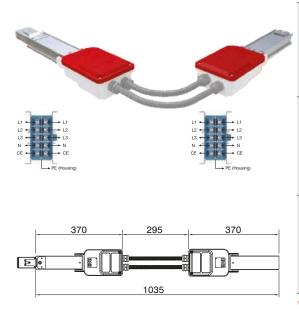
Central Feeder Unit

(BO) Central Feeder Units

Current (A)	Description	Busbars	Order Code
25	DL 2525 - BO Central Feeder Unit	DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423	3133141
32	DL 3535 - BO Central Feeder Unit	DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423	3133143
40	DL 4545 - BO Central Feeder Unit	DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443	3133145

^{*} With PE Conductor and M25 Gland as standard.

(FD) Flexible Elbow



Flexible Elbow

Current (A)	Description	Busbars	Order Code
25	DL 2525 - FD Flexible Elbow	DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423	3024882
32	DL 3535 - FD Flexible Elbow	DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423	3024884
40	DL 4545 - FD Flexible Elbow	DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443	3024886

^{*} With PE Conductor and M25 Gland as standard.

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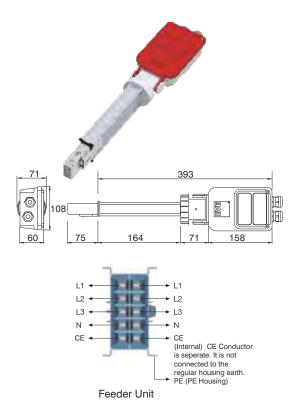
Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.



▶▶ Product Selection Tables / Raised Underfloor Feeder Units





(B1) Feeder Units

Current (A)	Description	Busbars	Order Code
25	DL 2525 - B1 Raised Underfloor Feeder Unit	DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423	3024541
32	DL 3535 - B1 Raised Underfloor Feeder Unit	DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423	3024542
40	DL 4545 - B1 Raised Underfloor Feeder Unit	DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443	3024543

^{*} With PE conductor and M25 Gland as standard.

393 L1 L1 L2 L3 N CE (Internal) CE Conductor is seperate. It is not connected to the regular housing earth. PE (PE Housing) End Feeder Unit

(B2) End Feeder Units

Current (A)	Description	Busbars	Order Code
25	DL 2525 - B2 Raised Underfloor End Feeder Unit	DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423	3024544
32	DL 3535 - B2 Raised Underfloor End Feeder Unit	DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423	3024545
40	DL 4545 - B2 Raised Underfloor End Feeder Unit	DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443	3024546

^{*} With PE conductor and M25 Gland as standard.

Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.



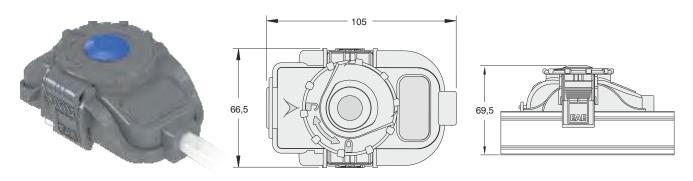
►► Product Selection Tables / Tap-off Plugs



Tap-off Plug (B)

Current (A)		Cable Len	gth / Type		Properties	Order Code		
	Description	Halogen Free	Standard (PVC)	Phase		Halogen Free	Standard (PVC)	
	DL / SL 16 - B Tap-off Plug L1	0,75 m.	0,75 m.	L1, N, PE	With Black Cover	3063696	3086972	
16	III / SI 16 - B Ian-off Plug I 2	052XZ1-F	052XZ1-F N 3x1,5 mm ² 3x	NYMHY 3x1.5 mm ²	L2, N, PE	With Yellow Cover	3063697	3086974
10	DL / SL 16 - B Tap-off Plug L3	cable(*)	cable(*)	L3, N, PE	With Blue Cover	3063698	3086975	
	DL / SL 16 - B Tap-off Plug L123	5x1,5 mm ²	5x1,5 mm²	L1, L2, L3, N, PE	With Grey Cover	3066319	3086976	

^{*} Plugs with different length cable available upon request.

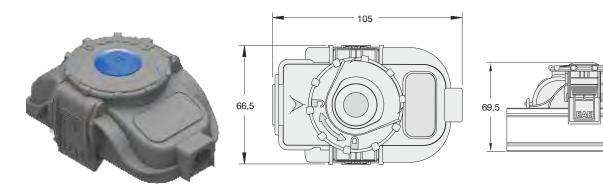


DL / SL 16 - B

Plug with Fuse Holder (FS) / Plug with Clips (K)

Current (A)	Description	Cable Length / Type	Phase	Prope	erties	Order Code
	DL / SL 16 - FS Tap-off Plug L1	-	L1, N, PE	With Black Cover	With 5 x 20 mm fuse holders (**)	3063703
16	DL / SL 16 - FS Tap-off Plug L2	-	L2, N, PE	With Yellow Cover	Max. diameter of	3063704
	DL / SL 16 - FS Tap-off Plug L3	-	L3, N, PE	With Blue Cover	feeder cable is Ø 11 mm.	3063705
	DL / SL 16 - K Tap-off Plug L1	-	L1, N, PE	With Black Cover	Without Fuses.	3063699
16	DL / SL 16 - K Tap-off Plug L2	-	L2, N, PE	With Yellow Cover		3063701
16	DL / SL 16 - K Tap-off Plug L3	-	L3, N, PE	With Blue Cover	feeder cable is	3063702
	DL / SL 16 - K Tap-off Plug L123	-	L1, L2, L3, N, PE	With Grey Cover	Ø 11 mm.	3063700

^{**} Cylindrical fuse not included.



DL / SL 16 - FS DL / SL 16 - K

1



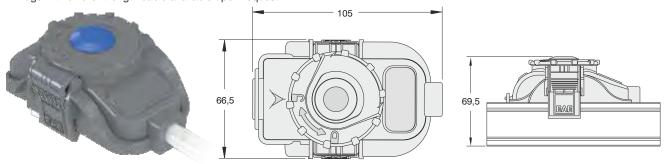




Tap-off Plug (B) (Clean Earth)

	Current (A)		Cable Len	gth / Type		Properties	Order Code	
		Description	Halogen Free	Standard (PVC)	Phase		Halogen Free	Standard (PVC)
		DL / SL 16 - B - CE Tap-off Plug L1	0,75 m. 052XZ1-F 3x1,5 mm ² cable(*)	0,75 m.	L1, N, CE	With Black Cover	3063709	3086978
	16	DL / SL 16 - B - CE Tap-off Plug L2		052XZ1-F NYMHY = 3x1,5 mm ² =	L2, N, CE	With Yellow Cover	3063710	3086979
	16	DL / SL 16 - B - CE Tap-off Plug L3		cable(*)	L3, N, CE	With Blue Cover	3063711	3086980
		DL / SL 16 - B - CE Tap-off Plug L123	5x1,5 mm ²	5x1,5 mm ²	L1, L2, L3, N, CE	With Grey Cover	3066323	3086982

^{*} Plugs with different length cable available upon request.



DL / SL 16 - B - CE

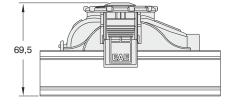
Plug with Fuse Holder (FS) / Plug with Clips (K) (Clean Earth)

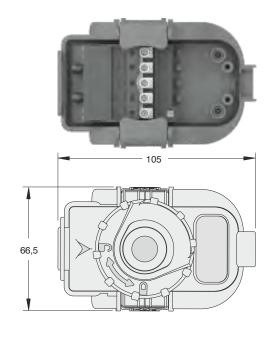
Current (A)	Description	Cable Length / Type	Phase	Propo	erties	Order Code
	DL / SL 16 - FS - CE Tap-off Plug L1	-	L1, N, CE	With Black Cover	With 5 x 20 mm fuse holders (**)	3063717
16	DL / SL 16 - FS - CE Tap-off Plug L2	L2 - L2, N, CE With Yellow Cover Max. diameter of	3063718			
	DL / SL 16 - FS - CE Tap-off Plug L3	-	L3, N, CE	With Blue Cover	feeder cable is 0 0 11 mm.	3063719
	DL / SL 16 - K - CE Tap-off Plug L1	-	L1, N, CE	With Black Cover	Without Fuses.	3063712
16	DL / SL 16 - K - CE Tap-off Plug L2	-	L2, N, CE	With Yellow Cover		3063715
16	DL / SL 16 - K - CE Tap-off Plug L3	-	L3, N, CE	With Blue Cover	feeder cable is	3063716
	DL / SL 16 - K - CE Tap-off Plug L123	-	L1, L2, L3, N, CE	With Grey Cover	Vith Grey Cover	

^{**} Cylindrical fuse not included.



DL / SL 16 - FS -CE DL / SL 16 - K - CE







▶▶ Product Selection Tables / Tap-off Plugs

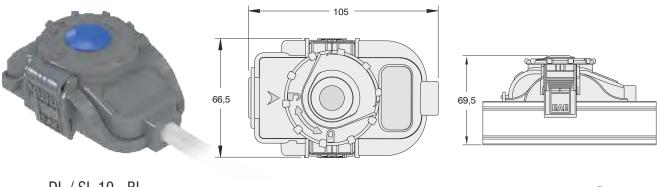


Tap-off Plug (BL)**

Current (A)	Description	Cable Length / Type	B1		Order Code
			Phase	Properties	Halogen Free
	DL / SL 10 - BL Tap-off Plug L1		L1, N, PE	With Black Cover	3134599
10	DL / SL 10 - BL Tap-off Plug L2	052XZ1-F 3x0,75 mm ² - cable(*)	L2, N, PE	With Yellow Cover	3134600
-	DL / SL 10 - BL Tap-off Plug L3		L3, N, PE	With Blue Cover	3134601

^{*} Plugs with different length cable available upon request.

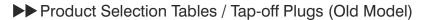
^{**} It is used only for lighting fittings supply in lighting circuits.





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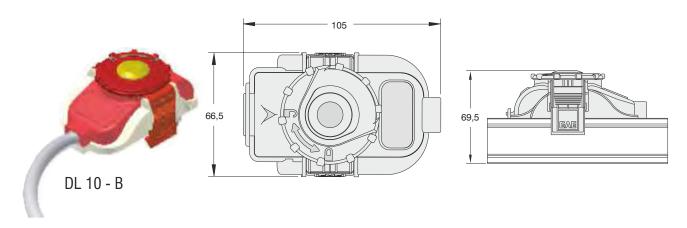


(WARNING: Tap-off Plugs, which will be used with DL Busbar bought before April 2015, should be selected from this page.)

Tap-off Plug (B)

Current (A)	Description	Cable Length / Type	Phase	Properties	Order Code
	DL 10 - B Tap-off Plug L1	0,75 m. NYMHY Cable	L1, N, PE	With Black Cover	3024870
10	DL 10 - B Tap-off Plug L2	0,75 m. NYMHY Cable	L2, N, PE	With Yellow Cover	3024871
	DL 10 - B Tap-off Plug L3	0,75 m. NYMHY Cable	L3, N, PE	With Blue Cover	3024872

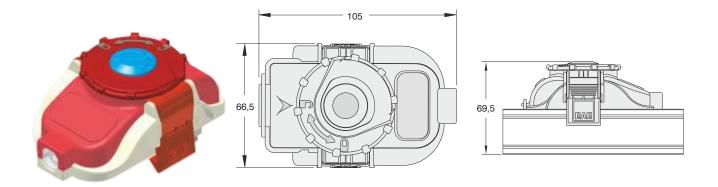
^{*} Plugs with different length cable available upon request.



Plug with Fuse Holder (FS) / Plug with Clips (K)

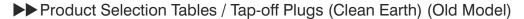
Current (A)	Description	Cable Length	Phase	Properties	Order Code
	DL 16 - FS Tap-off Plug L1	-	L1, N, PE	With 5 x 20 mm	3024873
16	DL 16 - FS Tap-off Plug L2	-	L2, N, PE	fuse holders (**) Max. diameter of feeder	3024874
10	DL 16 - FS Tap-off Plug L3	-	L3, N, PE	cable is Ø 11 mm.	3024875
	DL 16 - K Tap-off Plug L1	-	L1, N, PE	Without Fuses.	3024778
16	DL 16 - K Tap-off Plug L2	-	L2, N, PE	Max. diameter of	3024777
16	DL 16 - K Tap-off Plug L3	-	L3, N, PE	feeder cable is	3024776
	DL 16 - K Tap-off Plug L123	-	L1, L2, L3, N, PE	Ø 11 mm.	3024775

^{**} Cylindrical fuse not included.



DL 16 - FS DL 16 - K





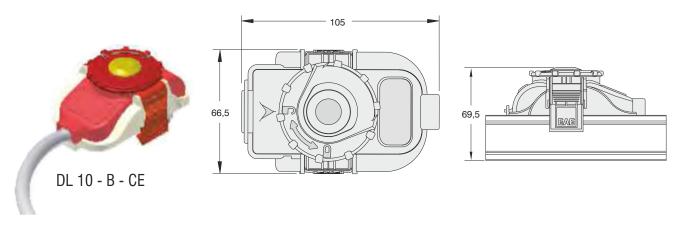


(WARNING: Tap-off Plugs, which will be used with DL Busbar bought before April 2015, should be selected from this page.)

Tap-off Plugs (B) (Clean Earth)

Current (A)	Description	Cable Length / Type	Phase	Properties	Order Code
	DL 10 - B - CE Tap-off Plug L1*	0,75 m. NYMHY Cable	L1, N, CE	With Black Cover	3024779
	DL 10 - B - CE Tap-off Plug L2*	0,75 m. NYMHY Cable	L2, N, CE	With Yellow Cover	3024780
	DL 10 - B - CE Tap-off Plug L3*	0,75 m. NYMHY Cable	L3, N, CE	With Blue Cover	3024781

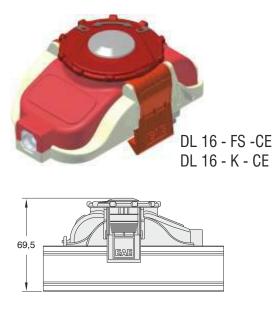
^{*} Plugs with different length cable available upon request.

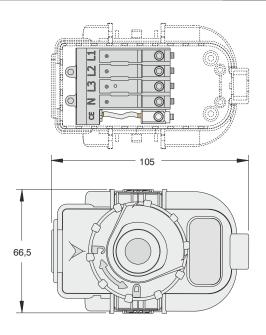


Plug with Fuse Holder (FS) / Plug with Clips (K)(Clean Earth)

Current (A)	Description	Cable Length	Phase	Properties	Order Code
	DL 16 - FS - CE Tap-off Plug L1	-	L1, N, CE	With 5 x 20 mm fuse	3024881
16	DL 16 - FS - CE Tap-off Plug L2	-	L2, N, CE	holders (**) Max.	3024785
	DL 16 - FS - CE Tap-off Plug L3	-	L3, N, CE	cable is Ø 11 mm.	3024784
	DL 16 - K - CE Tap-off Plug L1	-	L1, N, CE	Without Fuses.	3024592
16	DL 16 - K - CE Tap-off Plug L2	-	L2, N, CE	Max. diameter of	3024591
16	DL 16 - K - CE Tap-off Plug L3	-	L3, N, CE	feeder cable is	3024590
	DL 16 - K - CE Tap-off Plug L123	-	L1, L2, L3, N, CE	Ø 11 mm.	3024589

^{**} Cylindrical fuse not included.





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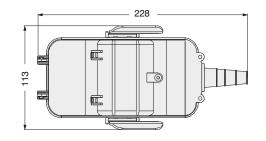


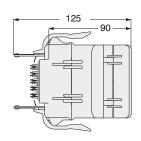
Suitable for MCB Empty Tap-off Box (S)

Current (A)	Description	Phase	Properties	Order Code
	DL/SL 25 - S Empty Tap-off Box(CE)* L1,L2,L3	L1, L2, L3, N, CE	L1, N, CE L2, N, CE Included DIN rail. It can be used	3024481
	DL/SL 25 - S Empty Tap-off Box(CE)* L1	L1, N, CE		3066511
	DL/SL 25 - S Empty Tap-off Box(CE)* L2 L2, N, CE	L2, N, CE		3066512
25	DL/SL 25 - S Empty Tap-off Box(CE)* L3	L3, N, CE		3066513
25	DL/SL 25 - S Empty Tap-off Box (PE)* L1,L2,L3 L1, L2, L3, N, PE	L1, L2, L3, N, PE		3024482
	DL/SL 25 - S Empty Tap-off Box (PE)* L1	L1, N, PE		3066508
	DL/SL 25 - S Empty Tap-off Box (PE)* L2 L2, N, PE		3066509	
	DL/SL 25 - S Empty Tap-off Box (PE)* L3	L3, N, PE		3066510

* MCB not included.







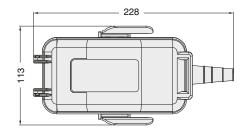
DL 25 - S (CE) DL 25 - S (PE)

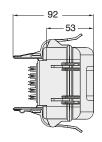
Suitable for Fuse Holder Empty Tap-off Box (FS)

Current (A)	Description	Phase	Properties	Order Code
	DL/SL 16 - FS Empty Tap-off Box(CE)* L1,L2,L3	L1, L2, L3, N, CE	Included DIN rail. It can be used with 10x38mm cylindrical fuse holder and cylindrical fuse. (**)	3084928
	DL/SL 16 - FS Empty Tap-off Box(CE)* L1	L1, N, CE		3084929
	DL/SL 16 - FS Empty Tap-off Box(CE)* L2	L2, N, CE		3084930
16	DL/SL 16 - FS Empty Tap-off Box(CE)* L3	L3, N, CE		3084931
10	DL/SL 16 - FS Empty Tap-off Box (PE)* L1,L2,L3	L1, L2, L3, N, PE		3084923
	DL/SL 16 - FS Empty Tap-off Box (PE)* L1	L1, N, PE		3084925
	DL/SL 16 - FS Empty Tap-off Box (PE)* L2	L2, N, PE		3084926
	DL/SL 16 - FS Empty Tap-off Box (PE)* L3	L3, N, PE		3084927

^{**} Cylindrical fuse not included.







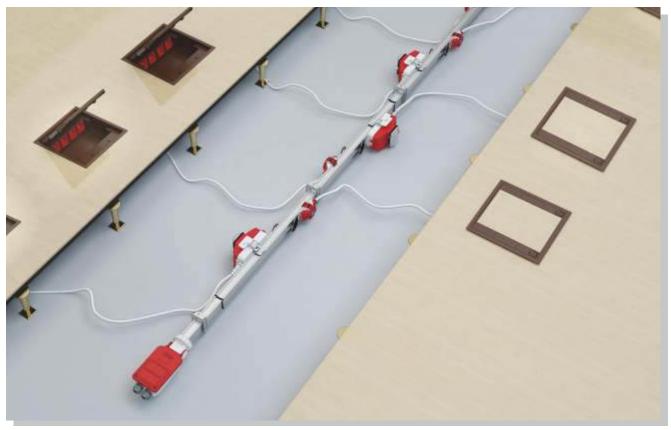
DL 16 - FS (CE) DL 16 - FS (PE)











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►► Application Areas



Open / High Ceiling (Lighting Circuits)









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► General Characteristics

E-Line DL-DALI Busbar Systems are used in the building lighting installations where 25-40A energy is needed. In order to be controlled within the lighting management system of DALI ballast lighting fittings. 16A plugs are designed in order to control and supply energy to the lighting fittings with DALI Ballast.

EAE Busbar Systems are produced in accordance with ISO 9001 standards with a certified Quality Assurance System using the world's latest manufacturing technologies. Units are designed and tested according to IEC 61439-6.



Tap-off Plugs

Tap-off plugs of DL-DALI busbar systems are designed with different contact arrangements. All the plugs are produced in one direction to prevent the use of a wrong phase.

Safety

Earth contacts of the tap-off plugs make first when plugging-in, and the contact breaks last when unplugging.

Colour Coded Covers Indicate The Phases

The covers of the tap-off plugs are designed with different colours to indicate which phase the light fittings are fed from.



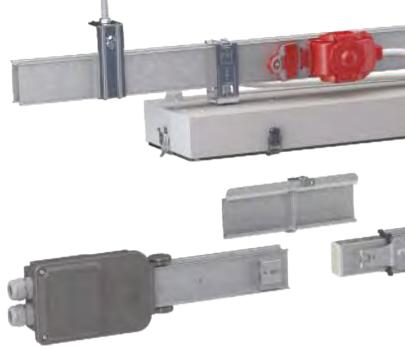
Fast, Easy and Secure Assembly

Achieved with single action by driving the mechanical and electrical joint silver coated springed contacts towards each other. The joint is secured by tightening one screw. It is not necessary to install the joint cover to secure the joint.



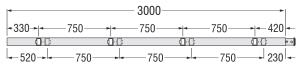
Full Isolation

The busbar conductors are coated in flame-proof insulation material. Total security regarding human safety is provided even when the body is severely damaged due to to external heavy impacts that may occur.



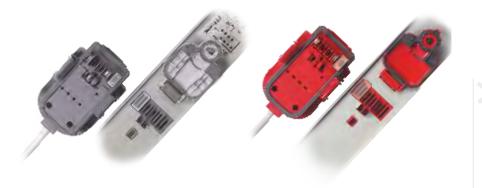
Total of 8 plug-in points; 4 Plug-in points for Mains and 4 Plug-in points for control are provided on a Standard 3m Length

A total of 8 plug-in points (4 each side) are provided as standard.



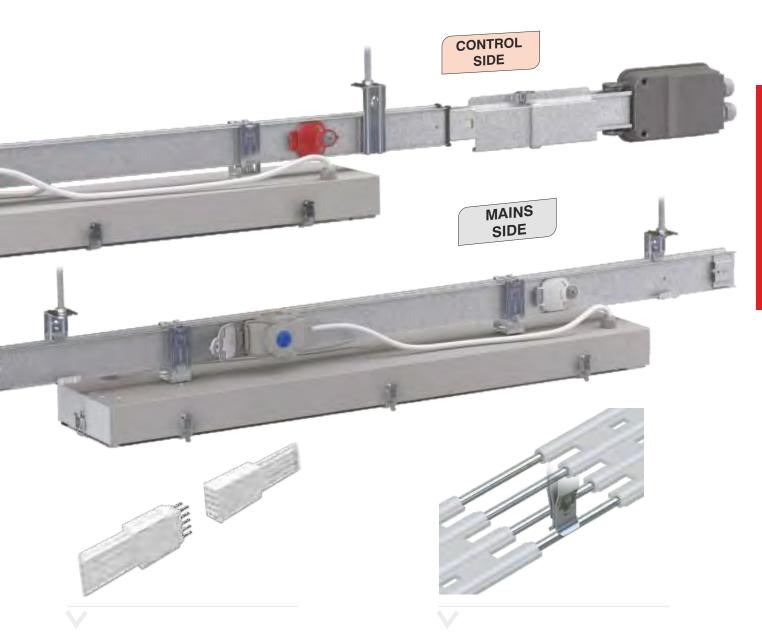
Body is manufactured from 0.50 mm thick, galvanized sheet metal.





Addressed Plug and Window

Plugs and plug-in windows are addressed to prevent any faulty usage. (Supply plugs can not be used in the control side of the busbar and control plugs can not be used in the mains side.)



Silver Coated Joint Contacts

The contacts at the joints of the busbar and the contacts of all tap-off units are silver coated. The silver coating minimises the contact impedances, thus preventing the over-heating of the contacts in case of possible over-loads.

Tin Coated Conductors and Contact Structure

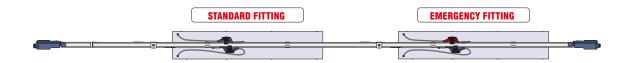
Formation of Copper Oxide is prevented by tin plating the conductors along their full length.

This ensures that contact resistances are minimised. The contacts of the tap-off plugs contact the busbar conductors on two surfaces.

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▶▶ Product Selection Tables / Three Phase Busbars



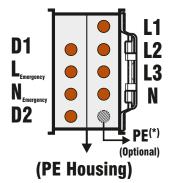


Three Phase DALI Busbar

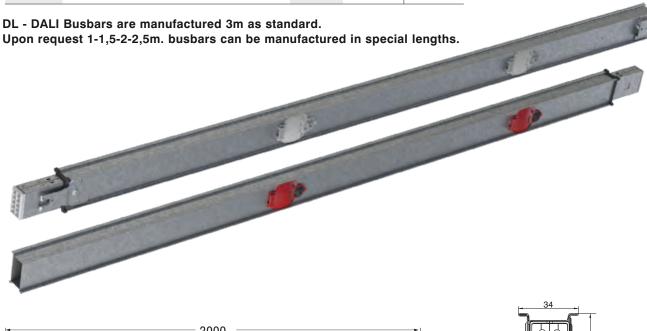
Current	Description	Conductor	Order Code	
(A)	Description	Conf.	(4+4)	(4+5)
25	DL -2424/2425 - DALI - STD Busbar	4+4(5)	3063687	3063707
32	DL -3434/3435 - DALI - STD Busbar		3063815	3063816
40	DL -4444/4445 - DALI - STD Busbar		3063819	3063820

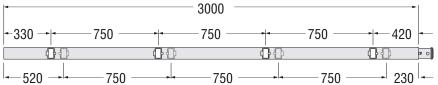


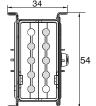
Current	Description	Conductor	Order	Order Code	
(A)	Description	Conf.	(4+4)	(4+5)	
25	DL - 2424/2425 - DALI - X Special Length	4+4(5)	3063688	3063708	
32	DL - 3434/3435 - DALI - X Special Length		3063823	3063824	
40	DL - 4444/3435 - DALI - X Special Length		3063827	3063828	



(*) Based on requirement "PE" can be manufactured as a seperate conductor independent from housing.







Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

►► Product Selection Tables / Tap-off Plugs (For Three Phase Busbars) CONTROL (LEFT SIDE)

DALI Tap-off Plug (B) (Cables are of 2x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

	Order	Code	
Description	Halogen Free	Standard (PVC)	
DL - DALI 16 -B Tap-off	2062690	3086999	(1
Plug (D1, D2)	3003009	3000333	U

► DALI Tap-off Plug (K)(with Clips)

Description	Order Code	
DL - DALI 16 -K Tap-off Plug	2062601	
(D1, D2)	3063691	(2)



DALI+Emergency Tap-off Plug (B) (Cables are of 4x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

• •		- ,		
	Order	Order Code		
Description	Halogen Free	Standard (PVC)		
DALI+ACK 16 -B Emergency	0000000	0000000	<u>(1</u>	
Tap-off Plug(D1, L_{emg} , N_{emg} ,D2)	3063693	3086998	U	

DALI Emergency Tap-off Plug (K) (with Clips)

Description	Order Code	
DALI+ACK 16 -K Emergency	0000004	(2)
Tap-off Plug(D1, L _{emg} , N _{emg} , D2)	3063694	(2)

DALI Emergency Tap-off Plug(FS) (Fuse Holder)(*)

	Description	Order Code	
DA	ALI+ACK 16-FS Emergency	000000	(3)
Ta	p-off Plug(D1, L _{emg} , N _{emg} , D2)	3063695	હ

* The cylindrical fuse holder is 5x20mm and the fuse is not included.







DALI+ACK -K Emergency Tap-off Plug



(3)

DALI+ACK -FS Emergency Tap-off Plug

WARNING:

Lighting fittings must be on the same phase as the emergency kit.

MAINS (RIGHT SIDE)

EAE

DL/SL Tap-off Plugs (B)

(Cables are of 3x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

		Description		Code
				Standard (PVC)
	1	DL/SL 16 - B Tap-off Plug L1 (L1, N, PEHousing)	3063696	3086972
	2	DL/SL 16 - B Tap-off Plug L2 (L2, N, PEHousing)	3063697	3086974
	3	DL/SL 16 - B Tap-off Plug L3 (L3, N, PEHousing)	3063698	3086975
	1	DL/SL 16 - B Tap-off Plug L1 (L1, N, PE)	3063709	3086978
	2	DL/SL 16 - B Tap-off Plug L2 (L2, N, PE)	3063710	3086979
5	3	DL/SL 16 - B Tap-off Plug L3 (L3, N, PE)	3063711	3086980

ATTENTION:

L3

Optional

(Optional)

(PE Housing)

(*) These plugs must be used when the PE protection conductor is selected as a separate conductor from the body.



1 DL/SL 16-B L1 Tap-off Plug 2 DL/SL 16-B L2 Tap-off Plug 3DL/SL 16-B L3 Tap-off Plug

➤ Tap-off Plugs with Clips (K)

	Description	Order Code
1	DL/SL 16 - K Tap-off Plug L1 (L1, N, PEHousing)	3063699
2	DL/SL 16 - K Tap-off Plug L2 (L2, N, PEHousing)	3063701
3	DL/SL 16 - K Tap-off Plug L3 (L3, N, PEHousing)	3063702
1	DL/SL 16 - K Tap-off Plug L1 (L1, N, PE)	3063712
2	DL/SL 16 - K Tap-off Plug L2 (L2, N, PE)	3063715
3	DL/SL 16 - K Tap-off Plug L3 (L3, N, PE)	3063716







1) DL/SL 16-K L1 Tap-off Plug 2 DL/SL 16-K L2 Tap-off Plug 3 DL/SL 16-K L3 Tap-off Plug

Fuse Holder Tap-off Plugs (FS) (*)

		Description	Order Code
	1	DL/SL 16 - FS Tap-off Plug L1 (L1, N, PEHousing)	3063703
	2	DL/SL 16 - FS Tap-off Plug L2 (L2, N, PEHousing)	3063704
Optional		DL/SL 16 - FS Tap-off Plug L3 (L3, N, PEHousing)	3063705
	1	DL/SL 16 - FS Tap-off Plug L1 (L1, N, PE)	3063717
	2	DL/SL 16 - FS Tap-off Plug L2 (L2, N, PE)	3063718
၀	(3)	DL/SL 16 - FS Tap-off Plug L1 (L1, N, PE) DL/SL 16 - FS Tap-off Plug L2 (L2, N, PE) DL/SL 16 - FS Tap-off Plug L3 (L3, N, PE)	3063719

 The cylindrical fuse holder is 5x20mm and the fuse is not included.







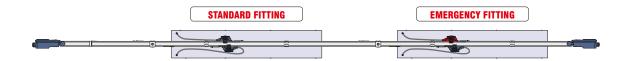
2 DL/SL 16-FS L2 Tap-off Plug



3 DL/SL 16-FS L3 Güç Fişi

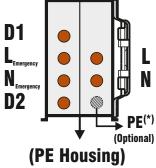
▶▶ Product Selection Tables / Single Phase Busbars





► Single Phase DALI Busbar

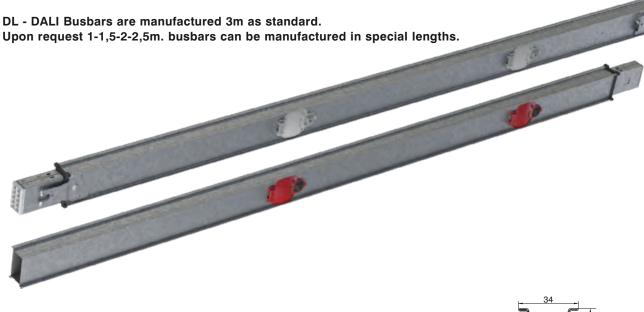
Current	Description	Conductor	Order	Code
(A)	Description	Conf.	(4+2)	(4+3)
25	DL -2422/2423 - DALI - STD Busbar	4+2(3)	3063721	3063723
32	DL -3432/3433 - DALI - STD Busbar		3063817	3063818
40	DL -4442/4443 - DALI - STD Busbar		3063821	3063822

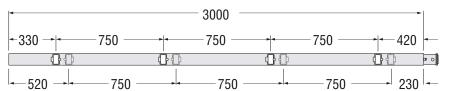


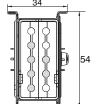
Single Phase DALI Special Length

Current	Description	Conductor Conf.	Order Code		
(A)	Description		(4+2)	(4+3)	
25	DL - 2422/2423 - DALI - X Special Length	4+2(3)	3063722	3063724	
32	DL - 3432/3433 - DALI - X Special Length		3063825	3063826	
40	DL - 4442/3433 - DALI - X Special Length		3063829	3063831	

(*)Based on requirement "PE" can be manufactured as a seperate conductor independent from housing.







Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

▶▶ Product Selection Tables / Tap-off Plugs (For Single Phase Busbars)



CONTROL (LEFT SIDE)

▶DALI Tap-off Plug (B) (Cables are of 2x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

	Order Code		
Description	Halogen Free	Standard (PVC)	
DL - DALI 16 -B Tap-off	3063689	2096000	(1
Plug (D1, D2)	3003009	3086999	(1

DALI Tap-off Plug (K)(with Clips)

Description	Order Code	
DL - DALI 16 -K Tap-off Plug	3063691	
(D1, D2)	3003091	(2)



► DALI + Emergency Tap-off Plug (B) (Cables are of 4x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally they may be manufactured with the desired length.)

	0 1	<u> </u>	
	Order Code		
Description	Halogen Free	Standard (PVC)	
DALI+ACK 16 -B Emergency	0000000	3086998	1
Tap-off Plug(D1, L_{emg} , N_{emg} ,D2)	3063693	3086998	

DALI Emergency Tap-off Plug (K) (with Clips)

Description	Order Code	
DALI+ACK 16 -K Emergency		
Tap-off Plug(D1, L _{emg} , N _{emg} , D2)	3063694	(2)

DALI Emergency Tap-off Plug(FS) (Fuse Holder)(*)

Description	Order Code	
DALI+ACK 16-FS Emergency	000000	(3)
Tap-off Plug(D1, L _{emg} , N _{emg} , D2)	3063695	૭

* The cylindrical fuse holder is 5x20mm and the fuse is not included.



DALI+ACK -B Emergency Tap-off Plug



DALI+ACK-K Emergency Tap-off Plug



(3)

DALI+ACK -FS Emergency

Tap-off Plug

WARNING:

Lighting fittings must be on the same phase as the emergency kit.

MAINS (RIGHT SIDE)

▶ DL/SL Tap-off Plugs (B) (Cables are of 3x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

	Description	Order Code	
		Halogen Free	Standard (PVC)
=	DL / SL 16 - B Tap-off		3086975
	Plug (L, N, PE _{Housing})	3063698	
{	DL / SL 16 - B Tap-off	3063711	3086980
	Plug (L, N, PE)(*)	3003711	3000900

ATTENTION:

(Optional)

(PE Housing)

(*) These plugs must be used when the PE protection conductor is selected as a separate conductor from the body.



Single Phase Tap-off Plugs with Clips(K)

Description	Order Code
DL / SL 16 - K Tap-off	0000700
Plug (L, N, PE _{Housing})	3063702
DL / SL 16 - K Tap-off	0000710
Plug (L, N, PE)	3063716



Single Phase Fuse Holder Tap-off Plugs (FS)(*)

	Description	Order Code
	DL / SL 16 - FS Tap-off	2002705
	Plug (L, N, PE _{Housing})	3063705
Jan	DL / SL 16 - FS Tap-off	3063719
Optional	Plug (L, N, PE)	3003719

* The cylindrical fuse holder is 5x20mm and the fuse is not included.



▶ Product Selection Tables / Feeder Units

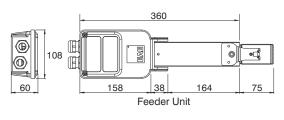


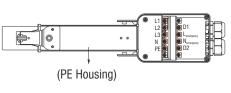
(B1) Feeder Units

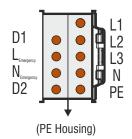
Current (A)	Description	Conductor Conf.	Order Code
	DL - 2425 - DALI - B1 Feeder Unit		3024938
25	DL - 2425 - DALI - B1 Feeder Unit (3xM25 Gland) (*)		3047853
	DL - 3435 - DALI - B1 Feeder Unit	4+5	3063832
32	DL - 3435 - DALI - B1 Feeder Unit (3xM25 Gland) (*)		3063872
	DL - 4445 - DALI - B1 Feeder Unit	-	3056015
40	DL - 4445 - DALI - B1 Feeder Unit (3xM25 Gland) (*)		3063874



^{*} With PE Conductor and M25 Gland as standard.







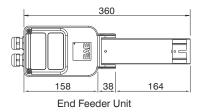
(B2) End Feeder Units

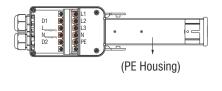
Current (A)	Description	Conductor Conf.	Order Code
	DL - 2524 - DALI - B2 End Feeder Unit		3024939
25	DL - 2524 - DALI - B2 End Feeder Unit (3xM25 Gland) (*)		3047854
	DL - 3534 - DALI - B2 End Feeder Unit		3063834
32	DL - 3534 - DALI - B2 End Feeder Unit (3xM25 Gland) (*)	5+4	3063873
	DL - 4544 - DALI - B2 End Feeder Unit		3056139
40	DL - 4544 - DALI - B2 End Feeder Unit (3xM25 Gland) (*)		3063875

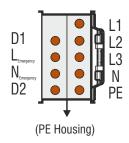


^{*} With PE Conductor and M25 Gland as standard.









ATTENTION:

- (*) The main supply, DALI and emergency kit (ACK) supply must be selected from the DL-DALI busbar start/end supply units which has 3 (three) union types.
- Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

▶▶ Product Selection Tables / Feeder Units

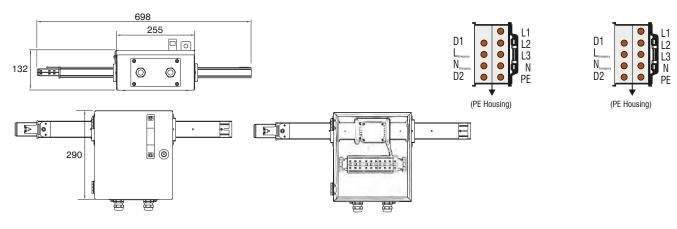


(BO) Central Feeder Units

Current (A)	Description	Conductor Conf.	Order Code
25	DL - 2425 - DALI - BO Central Feeder		3133087
32	DL - 3435 - DALI - BO Central Feeder	4+5	3133148
40	DL - 4445 - DALI - BO Central Feeder		3133150



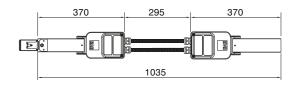
^{*} With PE Conductor and M25 Gland as standard.

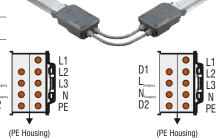


(FD) Flexible Elbow

Current (A)	Description	Conductor Conf.	Order Code
25	DL - 2425 - DALI - FD Flexible Elbow		3024941
32	DL - 3435 - DALI - FD Flexible Elbow	4+5	3063836
40	DL - 4445 - DALI - FD Flexible Elbow		3063785

^{*} With PE Conductor and M25 Gland as standard.





Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

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►► Application Areas



Offices

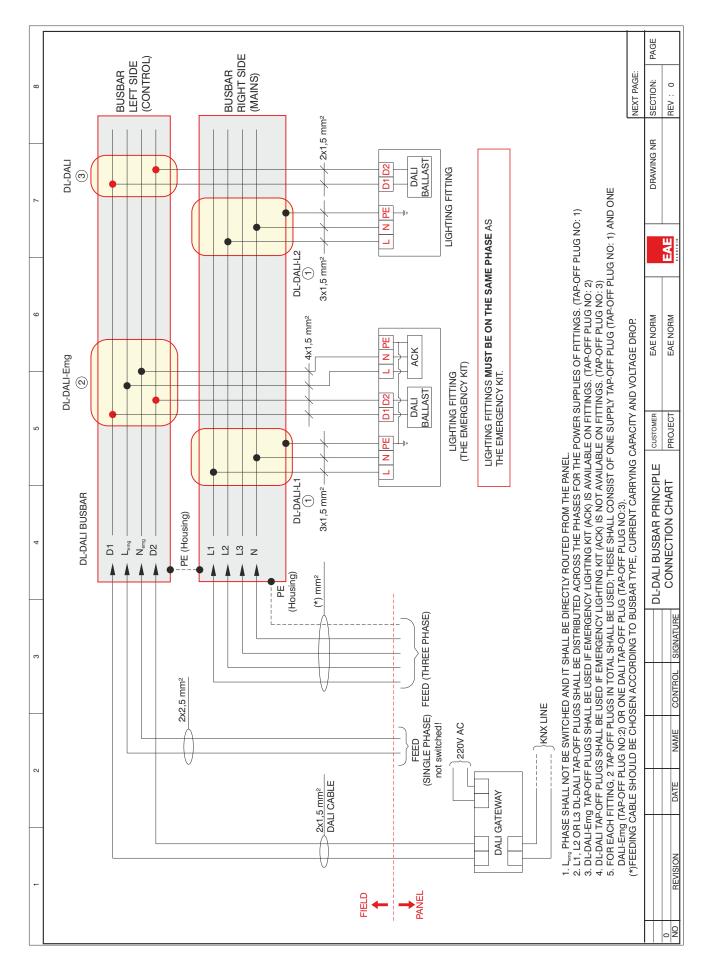


Plants



►► Busbar Principle Connection Chart





▶▶ Product Selection Tables / Busbars



DIM Busbar

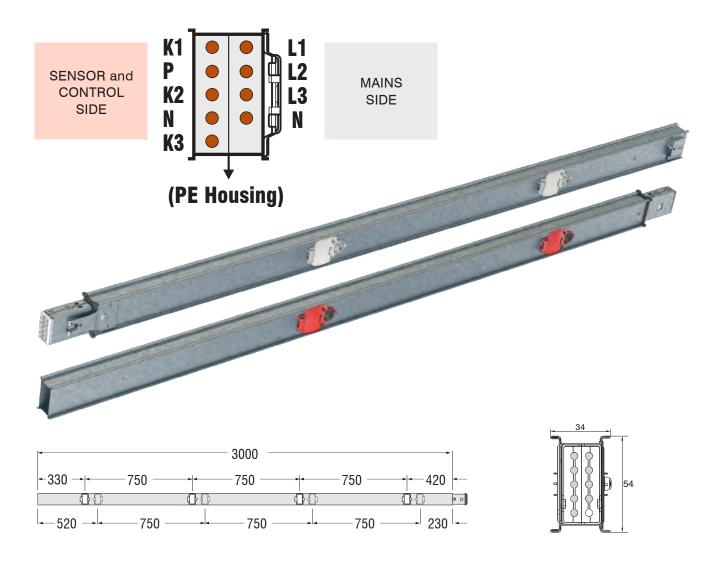
Current (A)	Description	Conductor Conf.	Order Code
25	DL - 2524 - DIM - STD Busbar		3048449
32	DL - 3534 - DIM - STD Busbar	5+4	3063859
40	DL - 4544 - DIM - STD Busbar		3063860

DIM Special Length

Current (A)	Description	Conductor Conf.	Order Code
25	DL - 2524 - DIM - X Special Length		3048450
32	DL - 3534 - DIM - X Special Length	5+4	3063863
40	DL - 4544 - DIM - X Special Length		3063864

E-Line DL - DIM Busbar; The lighting fittings with corridor function ballast are locally controlled with a max and min of 2 levels of "DIM".

DL - DIM Busbars are manufactured 3m as standard. Upon request 1-1,5-2-2,5m busbars can be manufactured in special lengths.



Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

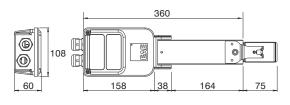
►► Product Selection Tables / Feeder Units

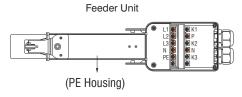


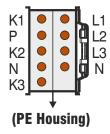
(B1) Feeder Units

Current (A)	Description	Conductor Conf.	Order Code	
25	DL - 2224 - DIM - B1 Feeder Unit		3048451	
32	DL - 3234 - DIM - B1 Feeder Unit	2+4	3063843	
40	DL - 4244 - DIM - B1 Feeder Unit		3063844	
* With PE Con	ductor and M25 Gland as standard.			
	360		100	

^{*} With PE Conductor and M25 Gland as standard.





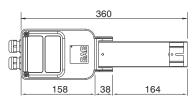


(B2) End Feeder Units

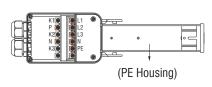
Current (A)	Description	Conductor Conf.	Order Code
25	DL - 2224 - DIM - B2 End Feeder Unit		3048452
32	DL - 3234 - DIM - B2 End Feeder Unit	4+2	3063847
40	DL - 4244 - DIM - B2 End Feeder Unit		3063848

* With PE Conductor and M25 Gland as standard.

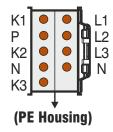


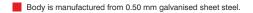


End Feeder Unit









For non-standard product, please contact our technical office.

►► Product Selection Tables / Feeder Units

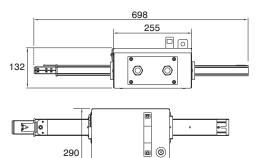


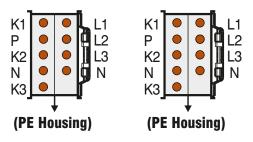
(BO) Central Feeder Units

Current (A)	Description	Conductor Conf.	Order Code
25	DL - 2524 - DIM - BO Central Feeder		3133152
32	DL - 3534 - DIM - BO Central Feeder	5+4	3133154
40	DL - 4544 - DIM - BO Central Feeder		3133156



* With PE Conductor and M25 Gland as standard.



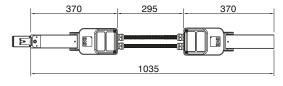


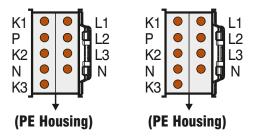
(FD) Flexible Elbow (1)

Current (A)	Description	Conductor Conf.	Order Code
25	DL - 2524 - DIM - FD Flexible Elbow		3048453
32	DL - 3534 - DIM - FD Flexible Elbow	5+4	3063857
40	DL - 4544 - DIM - FD Flexible Elbow		3063858



* With PE Conductor and M25 Gland as standard.



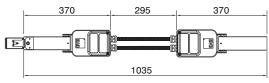


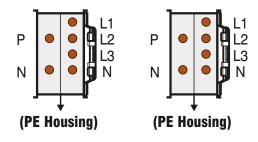
(FD) Flexible Elbow (2)

(,				
Current (A)	Description	Conductor Conf.	Order Code	
25	DL - 2224 - DIM - FD Flexible Elbow		3066726	
32	DL - 3234 - DIM - FD Flexible Elbow	2+4	3066728	
40	DL - 4244 - DIM - FD Flexible Elbow		3066730	



* With PE Conductor and M25 Gland as standard.





Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

►► Product Selection Tables / Tap-off Plugs



CONTROL (LEFT SIDE)

▶DL-DIM Control Tap-off Plug (B)

(Cables are of 2x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

	Order Code		
Description	Halogen Free	Standard (PVC)	
DL - DIM - K1 Tap-off Plug (K1, N)	3048458	3087000	1
DL - DIM - K2 Tap-off Plug (K2, N)	3048459	3087002	2
DL - DIM - K3 Tap-off Plug (K3, N)	3048460	3087004	(3)



DL-DIM Sensor Control Tap-off Plug (B)

(Cables are of 3x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

	Order Code		
Description	Halogen Free	Standard (PVC)	
DL - DIM - S1 Tap-off Plug (K1, P, N)	3048455	3087006	
DL - DIM - S2 Tap-off Plug (K2, P, N)	3048456	3087007	
DL - DIM - S3 Tap-off Plug (K3, P, N)	3048457	3087008	



►DL-DIM+Emergency Control Tap-off Plug (B)

(Cables are of 3x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

	Order Code		
Description	Halogen Free	Standard (PVC)	
DL - DIM - K1 - ACK Tap-off Plug (K1, P, N)	3048461	3087001	1
DL - DIM - K2 - ACK Tap-off Plug (K2, P, N)	3048462	3087003	2
DL - DIM - K3 - ACK Tap-off Plug (K3, P, N)	3048463	3087005	(3)

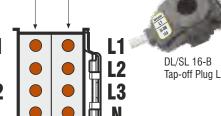


MAINS (RIGHT SIDE)

▶ DL / SL Tap-off Plugs (B)

(Cables are of 3x1.5 mm² 052XZ1-F type,and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

	Description	Order Code		
	Description	Halojen Free	Standart (PVC)	
1	DL / SL 16 - B Tap-off	3063696	3086972	
	Plug L1 (L1, N, PE)			
2	DL / SL 16 - B Tap-off	3063697	3086974	
	Plug L2 (L2, N, PE)	3003097	5000974	
3	DL / SL 16 - B Tap-off	3063698	3086975	
	Plug L3 (L3, N, PE)			



(PE Housing)

23

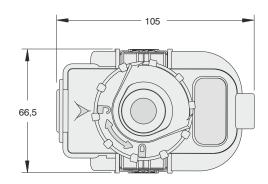
DL/SL 16-B
Tap-off Plug L1 1 Tap-off Plug L2 2

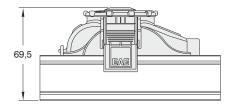


DL/SL 16-B Tap-off Plug L3 (3)

WARNING:

Lighting fittings must be on the same phase as the emergency kit.

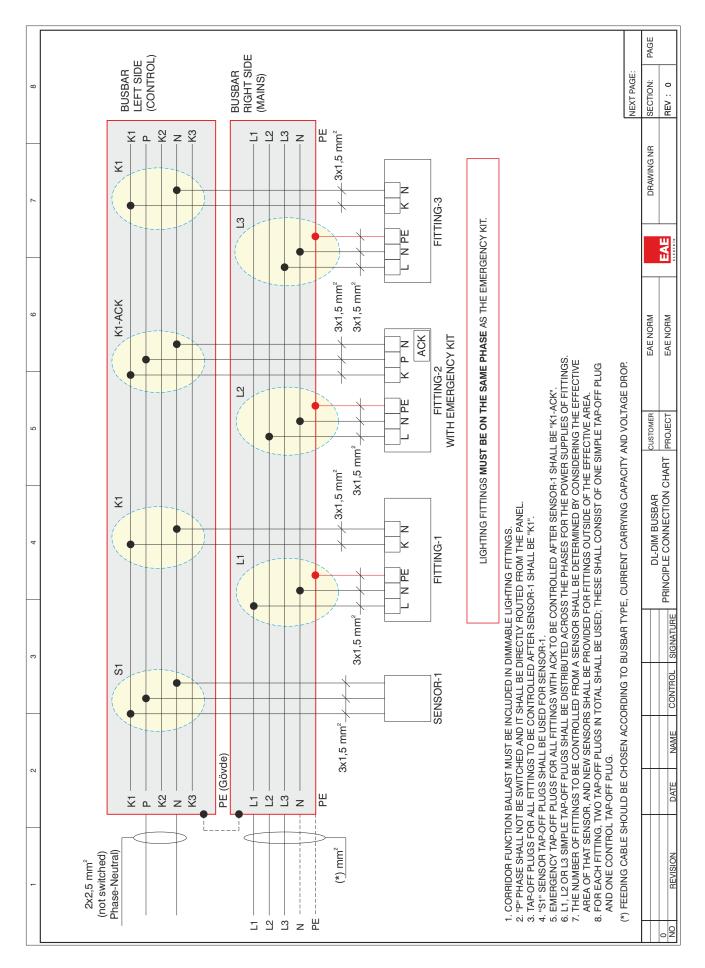




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▶ Busbar Principle Connection Chart











	Quantity					
	ਰ					
st						
Component List	Component					
Sombo	Comp					
					Name : Date : Signature :	
		Company	Project	Project No	Name : Date : Signature	
	Item	S	Pro	Proj	skebsked by	_ _ _
						X
						X
						X
						X
						X
						X
					. EAE	

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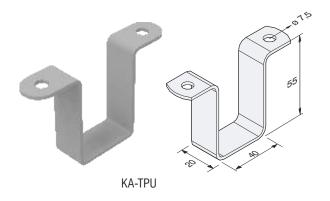


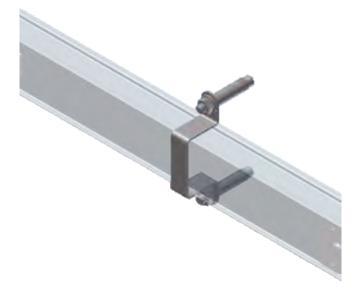
▶► Brackets and Joints



NOTE: All specified accessories; DL, DL-DALI, DL-DIM is valid for all busbar models.

Description	Order Code
KA - TPU Fitting U - Unpainted	3025158
KA - TPU Fitting U - Painted	3025159





Description Order Code DL / SL Joint Cover-Unpainted 1015520 DL / SL Joint Cover-Painted 2054580				G.	
DL / SL Joint Cover-Painted 2054580	Description Order Code	Ь		ST.	
	DL / SL Joint Cover-Unpainted 1015520			11	
1, 21	DL / SL Joint Cover-Painted 2054580				
76,7 55 6,8	76,7 55				

ATTENTION:

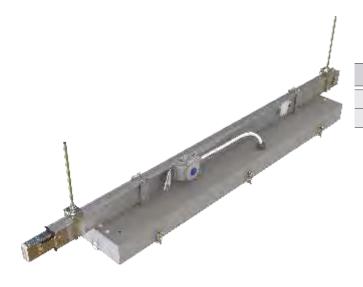
The joint cover must be attached to the screwless side of the busbar.

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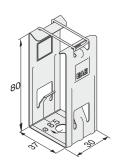
▶▶ Busbar and Fitting Brackets

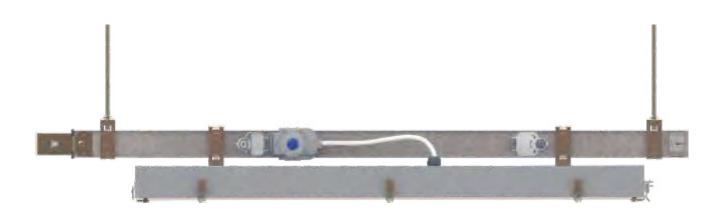


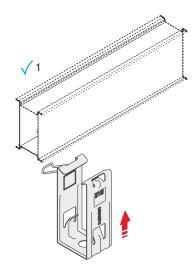


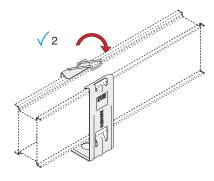
Description	Order Code
U-Bracket - Unpainted	1004874
U-Bracket - Painted	2037294

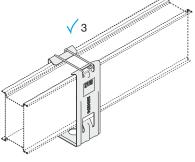














▶▶ Busbar and Fitting Brackets



Description	Order Code	Description	Order Code
Universal Fitting Bracket - Unpainted	1004189	DL/SL Multifunctional Bracket - Unpainted	3122646
Universal Fitting Bracket - Painted	2033519	DL/SL Multifunctional Bracket - Painted	3122647
Ceiling Installation Wall Installation Floor Installation	995	23 2 2 2 3 2 3 3 4 3 3 4 3 3 5 3 8 4 3 5 3 8 5 5 3 8 5 5 5 5	25 9 0 0
		20	55 85
√1	√ 2		3



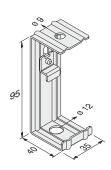
▶▶ Busbar and Fitting Brackets

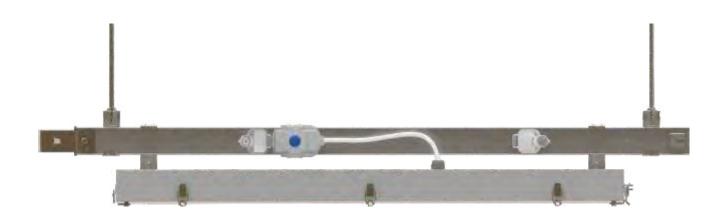


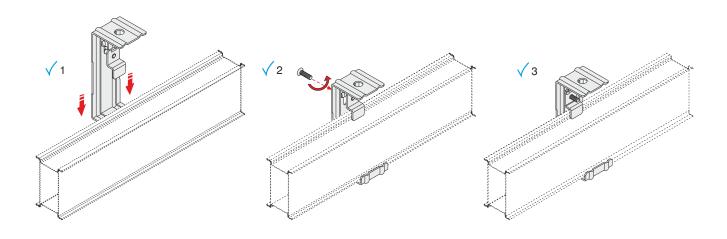


Description	Order Code
L-Bracket - Unpainted	1004283
L-Bracket - Painted	2037295







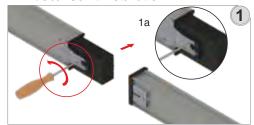




▶ Busbar Joint Installation



▶ DL Busbar Joint Installation



Detach the protective plastic from both ends of the busbar.(1a)



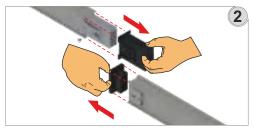
Connect the male side of the busbar with the female side of the other busbar. Make sure that you hear the locking sound for correct connection. (3a)



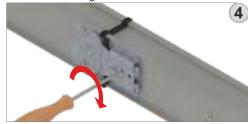
Install the joint cover to the screwless side.



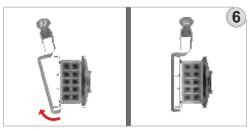
By closing the snap-in latch, you may complete the snap-in connection.



Remove the plastic protective covers from the system as shown in the figure.



Tightening the joint screw.



Make sure that the joint cover structure fully grips the busbars.

(**Caution:** The joint cover must be attached to the screwless side of the busbar.)



►► Tap-off Plug Fixing



► Tap-off Plugs with clips/Cyclindrical Fuse Installation



Use 052XZ1-F type cable, (3x1,5mm² for single phase, 5x1,5mm² for three phase) as required. Turn over the plug and remove the two screws.



Remove the cover by pressing the lug with EAE logo as shown in figure.



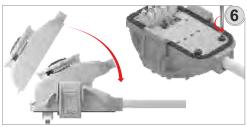
Remove the plastic cable grip. Pass the cable through the gland which maintains the IP rating.



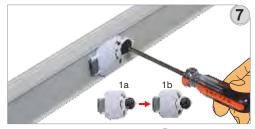
Connect the yellow green cable to the earth terminal, blue cable to "N" terminal and phase cables to related terminals of plug.



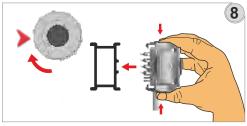
Refit the plastic cable grip.



Replace the cover and turn over the plug and tighten the screws.



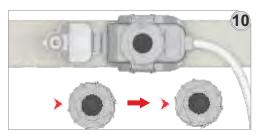
Put the plug in cover into open () position.



Put the lock mechanism of plug into open (>¬) position.



Direction of contacts should be as shown figure.



After connecting plug to busbar, put the lock mechanism of plug into close (> D) position.



►► Tap-off Plug Fixing



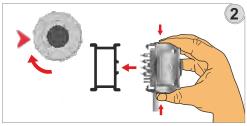
► Tap-off Plug Fixing



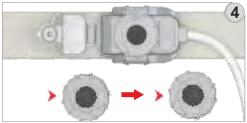
Turn the locking button on the busbar to OPEN () position.



Direction of contacts should be as shown figure.



Put the lock mechanism of plug into open (\gg position.



After fixing the plug to the busbar properly, turn the locking knob to LOCK (\gg **D**) position.



►► Tap-off Box Installation



Mounting Tap-off Box with Miniature Circuit Breaker (MCB)



Use 052XZ1-F type cable, (3x2,5mm² for single phase, 5x2,5mm² for three phase) as required. Turn over the tap-off box and remove the two screws.



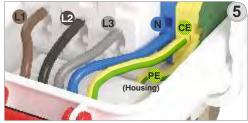
Open the cover of tap-off box.



Remove the plastic cable grip. Pass the cable through the gland which maintains the IP rating.



Install the MCB with a maximum of 25A to the DIN rail. (MCB should be "OFF" position.)



Connect the wiring at fuse entry terminal according to the colour combination as shown in the image. Make sure that the screws are tight.



Install the feeder cable at the fuse outlet terminal in the same way. Make sure that the screws are tight.



Refit the plastic cable grip.



Close the cover of tap-off box.



Turn over the tap-off box and tighten the screws. Make sure that the screws are tight.



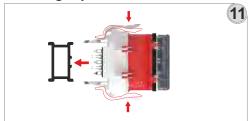
Put the plug in cover into open () position.



►► Tap-off Box Installation



► Mounting Tap-off Box with Miniature Circuit Breaker (MCB)



Align tap-off box with busbar plug-in while squeezing the ears on the sides of tap-off boxes.



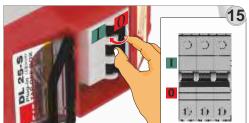
Direction at the tap-off box should be as shown in figure.



First, connect product earth terminal to busbar plug-in point. Then make sure that other terminals connect to busbar. Finally you should hear "CLICK" sound when you press tap-off box towards busbar.



untightening the screw.



Put " Miniature Circuit Breaker (MCB) "ON" position.



Close the transparent cover of the tap-off box by screwing.



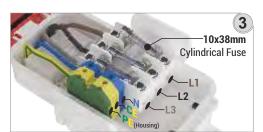
►► Tap-off Box Installation



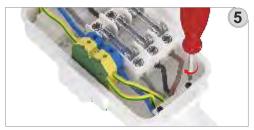
► Mounting Tap-off Box with Cylindrical Fuse



Use 052XZ1-F type cable, (3x2,5mm² for single phase, 5x2,5mm² for three phase) as required. Turn over the tap-off box and remove the two screws.



Install 10x38mm cylindrical fuse with maximum of 16A to fuse holder.



Fit the plastic component that organizes the cables and holds them together.



Put the plug-in cover to() position.



Direction at the tap-off box should be as shown in figure.



Make sure that tap-off box is locked.



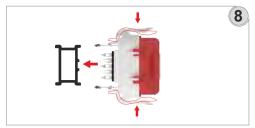
Open the cover of tap-off box.



Connect feeder cables as shown above.



After closing the tap-off box cover, turn the tap-off box upside down and tighten the screws.



Align tap-off box with busbar plug-in while squeezing the ears on the sides of tap-off boxes.



First, connect product earth terminal to busbar plug-in point. Then make sure that other terminals connect to busbar. Finally you should hear "CLICK" sound when you press tap-off box towards busbar.







DL / DL-DALI / DL-DIM

Rated Current	In	A	25	32	40
Busbar Code			24	35	45
Main Standards	IEC 6143	9-1/6, TS EN 6	61439-1/6		
Rated Isolation Voltage	Ui	V	690	690	690
Rated Frequency	f	Hz	50	50	50
Protection Degree	IP55				
External Mechanical Impacts (IK Code)*	IK07				
Rated Short-time Withstand Current (0,1s)	I _{cw}	kA _(rms)	2,5	3	4
Rated Peak Withstand Current	I _{pk}	kA	4	5	6,5
MEAN PHASE CONDUCTOR CHARACTERISTICS AT RATED CURRENT I	1				
Resistance at a conductor temperature of 20 °C	R ₂₀	mW/m	5,745	4,400	2,938
Resistance at an ambient air temperature of 35 °C	R	mW/m	7,174	5,566	3,751
Reactance (Independent from Temperature)	Х	mW/m	1,338	0,327	0,486
Positive and negative sequence impedances at an ambient air temperature of 35 °C	Z	mW/m	7,298	5,575	3,783
Positive and negative sequence impedances at a conductor temperature of 20 °C	Z ₂₀	mW/m	5,898	4,412	2,978
Rated Power Loss at 35 °C		W/m	15,6	17,0	18,7
DC Resistance at a conductor temperature of 20 °C for Phases	R/ort _{Ph}	mW/m	5,581	4,320	3,035
DC Resistance at a conductor temperature of 20 °C for Neutral	R _N	mW/m	5,603	4,296	2,985
DC Resistance at a conductor temperature of 20 °C for PE	R _{PE}	mW/m	3,09	3,09	3,09
DC Resistance at a conductor temperature of 20 °C for CE	R _{CPE}	mW/m	5,633	4,335	3,015
SECTIONS					
L1,L2,L3,N		mm²	2,54	3,98	6,16
CE (5 Conductors - Optional "PE" for DL-DALI)		mm²	2,54	3,98	6,16
PE (Sheet Steel)		mm ²	105	105	105
PE (Cu Equivalent-Sheet Steel)		mm²	5,8	5,8	5,8
Busbar Weight (4 Conductors)		kg/m	1,400	1,430	1,600
Busbar Weight (5 Conductors)		kg/m	1,500	1,550	1,720





25-32-40A PLUG-IN BUSBAR SYSTEMS PRODUCT SPECIFICATION (E-Line DL)

- 1- The busbar systems shall be type tested and certified according to IEC 61439-6 by international laboratories. They shall be manufactured in an ISO 9001 and ISO 14001 certified facility.
- 2- The rated insulation voltage of the system shall be 690V.
- 3- The busbar system shall have current ratings between 25A-32A-40A, Conductors shall be electrolytic copper and continuously tin plated along their entire length.
- 4- The conductors in the housing shall be insulated along their whole length an only stripped at the plug-in points to create the contact area.
- 5- The busbar shall have a total of 8 tap-off points (4 on each side) on a standard 3m length. The system should have the possibility to increase the number of tap-off points at the time of ordering. The tap-off points shall have protective covers to maintain the IP55 rating.
- 6- The DL Busbar System is double sided with a maximum of five independent conductors on each side. The number of conductors and the phase structure alternatives are as follows.
 - a) 2 Conductors; L1 / N / PE (Housing)
 - b) 3 Conductors; L1 / N / CE + PE (Housing)
 - c) 4 Conductors; L1 / L2 / L3 / N / PE (Housing)
 - d) 5 Conductors; L1 / L2 / L3 / N / CE + PE (Housing)
- Phase and Neutral conductor sections;
 - for 25A; **2,54** mm²
 - for 32A; **3,98** mm²
 - for 40A; It is produced as 6,16 mm².
- PE (Housing); The body is used as an earth conductor and the equivalent copper cross-sectional area is 5,8 mm².
- CE (Clean Earth); Clean Earth is a separate and independent conductor, the cross-sectional area is
 equivalent to the phase conductors.

The conductors and numbers mentioned above are valid for each side, and the DL Busbar system can be produced in different structures for both sides, depending on demand and supply.

- 7- There shall be insulator supports at the plug-in points.
- 8- The joint of the busbar shall be a push-fit joint. Joint contacts shall be silver plated. To ensure a secure joint contact there shall be springs on both sides of the joint.
- 9- The IP rating of the busbar shall be IP55.
- 10- The housing of the busbar shall be manufactured from 0.50mm thick galvanised sheet steel with an option for a RAL 7038 electrostatic oven dried paint finish.
- 11- The contacts on the tap-off plugs shall be silver plated jawed construction which contact the conductors on both sides.
- 12- Standard brackets and fittings suitable for the housing of the busbar shall be those produced by the busbar manufacturer.





DALI APPLIED LIGHTING BUSBAR SYSTEM GENERAL PRODUCT SPECIFICATIONS (E-Line DL-DALI)

Dali applied lighting busbar system;

- 1- The busbar systems shall be type tested and certified according to IEC 61439-6 by international laboratories. They shall be manufactured in an ISO 9001 and ISO 14001 certified facility.
- 2- Devices to be connected shall be manufactured as per IEC 62386.
- 3- Tap-off plugs shall have physical measures to prevent incorrect connection and shall be manufactured so that no voltage will be present on the 'DALI' line due to the conductor configuration even if connected incorrectly.
- 4- The rated insulation voltage of the system shall be 690V.
- 5- The conductors have a current carrying capacity of at least 25 A and are tin-plated copper.
- 6- The conductors in the housing shall be insulated along their whole length an only stripped at the plug-in points to create the contact area.
- 7- The busbar system shall offer the following phase configuration options:
 - a) 9 conductors: L1 / L2 / L3 / N / CE + PE (Housing) and D1 / L(emg.) / N(emg.) / D2 "Three Phase+ Clean Earth"
 - b) 8 conductors: L1 / L2 / L3 / N + PE (Housing) and D1 / L(emg.) / N(emg.) / D2 "Three Phase"
 - c) 7 conductors : L / N / CE + PE (Housing) and D1 / L(emg.) / N(emg.) / D2 "Single Phase + Clean Earth"
 - d) 6 conductors: L/N + PE (Housing) and D1 / L(emg.) / N(emg.) / D2 "Single Phase"
 - Phase and Neutral conductor sections;
 - for 25A ; 2,54 mm²
 - for 32A ; 3,98 mm²
 - for 40A; It is produced as **6,16** mm².
- PE (Housing); The body is used as an earth conductor and the equivalent copper cross-sectional area is 5,8 mm².
- 8- On a standard 3m length the busbar shall have a total of 4 tap-off points on each side, one side for the luminaire power supply and the other side for the DALI ballast and emergency kit control. The system should have the possibility to increase the number of tap-off points at the time of ordering. The tap-off points shall have protective covers to maintain the IP55 rating.
- 9- There shall be insulator supports at the plug-in points.
- 10- The tap-off covers for the luminaire supplies and the Dim Control tap-offs shall be of different colours and labelled to indicate which phase each is supplied from.
- 11- Conductors shall be electrolytic copper and continuously tin plated along their entire length.
- 12- The joint points of the main body are manufactured with snap-on, screw-on and capped construction.
- 13- Joint contacts shall be silver plated. To ensure a secure joint contact there shall be springs on both sides of the joint.
- 14- The tap-off points shall have protective covers to maintain the IP55 rating.
- 15- The housing of the busbar shall be manufactured from 0.50mm thick galvanised sheet steel with an option for a RAL 7038 electrostatic oven dried paint finish.
- 16- The contacts on the tap-off plugs shall be silver plated jawed construction which contact the conductors on both sides.
- 17- Standard brackets and fittings suitable for the housing of the busbar shall be those produced by the busbar manufacturer.





DIM APPLIED LIGHTING BUSBAR SYSTEM GENERAL PRODUCT SPECIFICATIONS (E-Line DL-DIM)

Dim applied lighting busbar system;

- 1- The busbar systems shall be type tested and certified according to IEC 61439-6 by international laboratories. They shall be manufactured in an ISO 9001 and ISO 14001 certified facility.
- 2- Tap-off plugs shall have physical measures to prevent incorrect connection and shall be manufactured so that no voltage will be present on the 'Dim Control' line due to the conductor configuration even if connected incorrectly.
- 3- The rated insulation voltage of the system shall be 690V.
- 4- The conductors have a current carrying capacity of at least 25 A and are tin-plated copper.
- 5- The conductors in the housing shall be insulated along their whole length an only stripped at the plug-in points to create the contact area.
- 6- The nine conductors shall be manufactured as one side L1/L2/L3/N+PE (Housing)and the other side as K1/P/K2/N/K3 "Three Phase".
 - Phase and Neutral conductor sections;
 - for 25A; 2,54 mm²
 - for 32A; **3,98** mm²
 - for 40A; It is produced as 6,16 mm².
- PE (Housing); The body is used as an earth conductor and the equivalent copper cross-sectional area is 5,8 mm².
- 7- On a standard 3m length the busbar shall have a total of 4 tap-off points on each side, one sidefor the luminaire supply and the other side for the Dim and emergency kit. The system should have the possibility to increase the number of tap-off points at the time of ordering. The tap-off points shall have protective covers to maintain the IP55 rating.
- 8- There shall be insulator supports at the plug-in points.
- 9- The tap-off covers for the luminaire supplies and the Dim Control shall be of different colours and labelled to indicate which phase each is supplied from.
- 10- Conductors shall be electrolytic copper and continuously tin plated along their entire length.
- 11- The joint of the busbar shall be a push-fit joint.
- 12- Joint contacts shall be silver plated. To ensure a secure joint contact there shall be springs on both sides of the joint.
- 13- The tap-off points shall have protective covers to maintain the IP55 rating.
- 14- The housing of the busbar shall be manufactured from 0.50mm thick galvanised sheet steel with an option for a RAL 7038 electrostatic oven dried paint finish.
- 15- The contacts on the tap-off plugs shall be silver plated jawed construction which contact the conductors on both sides.
- 16- Standard brackets and fittings suitable for the housing of the busbar shall be those produced by the busbar manufacturer.





CE DECLARATION OF CONFORMITY

Product Group E-Line DL Busbar Systems

E-Line DL - DALI Busbar Systems E-Line DL - DIM Busbar Systems

Manufacturer EAE Elektrik Asansor End. Insaat San. ve Tic. A.S.

Akcaburgaz Mahallesi, 3114. Sokak, No:10 34522 Esenyurt-Istanbul

The objects of the declaration described below is in conformity with the relevant Union harmonisation legislation. This declaration of conformity is issued under the sole responsibility of the manufacturer.

Standard:

EN 61439-6

Low-voltage switchgear and controlgear assemblies - Part 6: Busbar trunking systems

CE - Directive

2014/35/EU "The Low Voltage Directive"

2014/30/EU "Electromagnetic Compatibility (EMC) Directive"

2011/65/EU "Restriction of the use of certain hazardous substances (RoHS)"

Technical Document Preparation Official:

EAE Elektrik Asansör End. İnşaat San. ve Tic. A.Ş. Akçaburgaz Mahallesi, 3114. Sokak, No:10 34522 Esenyurt-İstanbul

Emre GÜRLEYEN

Date

08.03.2021

Document Authorized Signatory

Elif Gamze KAYA OK Deputy General Manager

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TEST CERTIFICATE

Issued to: EAE Elektrik Asansör End.

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No: 10

34510 Esenyurt / Istanbul

Turkey

For the product: Low-voltage busbar trunking system

Trade name: EAE

Type/Model: DL 02

Ratings: Inc 25 A at 50 Hz, U, 690 V, Umu 6 kV, Iov 2,5 kA - 0,1 s

For more details see annex

Manufactured by: EAE Elektrik Asansor End.

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No: 10

34510 Esenyurt / Istanbul

Turkey

Subject Design verification

Requirements: IEC 61439-6: 2012

Clauses: 10.2, 10.3, 10.4, 10.5, 10.9, 10.10, 10.11, 10.101 and

Annex BB, CC, and DD

Remarks: Busbar trunking system consists of feeder box, joint and straight lengths

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2172392.01-INC, dated 4 May 2015.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 4 May 2015 Number: 2172392.100

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TEST CERTIFICATE

EAE Elektrik Asansör End Issued to:

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No: 10

34510 Esenyurt / Istanbul

For the product: Low-voltage busbar trunking system

EAE Trade name:

DL 03 Type/Model:

Inc 32 A at 50 Hz, U, 690 V, Ump 6 kV, Inv 3 kA - 0,1 s Ratings:

For more details see annex

EAE Elektrik Asansor End Manufactured by:

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No: 10

34510 Esenyurt / Islanbul

Turkey

Subject: Design verification

Requirements: IEC 61439-6: 2012

Clauses: 10.2, 10.3, 10.4, 10.5, 10.9, 10.10, 10:11, 10 101 and

Annex BB, CC, and DD

Busbar trunking system consists of feeder box, joint and straight lengths Remarks:

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2172392.02-INC, dated 4 May 2015.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amhem, 4 May 2015 Number: 2172392,101

DEKRA Certification B.V

F.S. Strikwerda Certification Manager

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TEST CERTIFICATE

Issued to: EAE Elektrik Asansor End.

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No. 10

34510 Esenyurt / Istanbul

Turkey

For the product: Low-voltage busbar trunking system

Trade name: EAE

Type/Model DL 04

Ratings: Inc 40 A at 50 Hz, U_i 690 V, U_{imp} 6 kV, I_{pw} 4 kA - 0,1 s

For more details see annex

Manufactured by: EAE Elektrik Asansör End

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No: 10

34510 Esenyurt / Istanbul

Turkey

Subject: Design verification

Requirements: IEC 61439-6: 2012

Clauses: 10.2, 10.3, 10.4, 10.5, 10.9, 10.10, 10.11, 10.101 and

Annex BB, CC, and DD

Remarks: Busbar trunking system consists of feeder box, joint and straight lengths

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no 2172392,03-INC, dated 4 May 2015.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 4 May 2015 Number: 2172392.102

DEKRA Certification B.V.

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▶▶Project Design Form



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PRODUCT TYPES



BUSBAR ENERGY DISTRIBUTION SYSTEMS

CABLE TRAYS





TROLLEY BUSBAR ENERGY DISTRIBUTION SYSTEMS



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SUPPORT SYSTEMS

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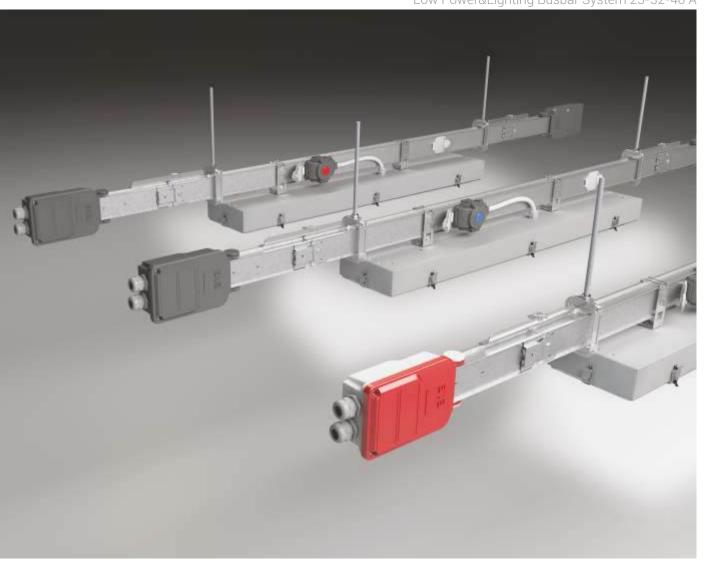






E-LINESL

Low Power&Lighting Busbar System 25-32-40 A



NESL/ACK/DALI+ACK

SL / SL-ACK / SL-DALI + ACK LIGHTING BUSBAR SYSTEM TECHNICAL SUMMARY TABLE (IEC 61439-6)

		BUSBAR					OUTLET PLUG-IN				
GROUP LINE	DESCRIPTION	DISTRIBUTION Structure	C.	APACIT (A)	ГΥ	STD.LENGTH (mm)	FUNCTION	DISTANCE (mm)	QUANTITY (pc.)	BODY	CONDUCTOR ^(*1)
1	SL	L1,L2,L3 /N /PE _(Housing) L1,L2,L3 /N /CE /PE _(Housing)	25	32	40	3000	Power (Feed)	750	4	sheet Paint nal	_
2	SL-ACK ^(*2)	L1,L2,L3 /N /L _{EMG} /PE _(Housing)	25	32	40	3000	Power (Feed) + EMG Reference Phase (Common neutral)	750	4	nm Galvanized she I , Elektrostatic Pai 7038) is optional	Tin plated and full length insulation
3	SL-DALI+ACK (*2)	D1/D2/ L /N /L _{EMG} /PE _(Housing)	25	32	40	3000	Power (Feed) + DALI Communication + EMG Reference Phase (Common neutral)	750	4	0,5 mm Ga metal , Elel (RAL 7038	Tin plat length

TAP-OFF					RATED CURREN	IT ^(*3)			CABLE				
				UN	FUSED			FUSED	SECTION	TYPE		LENGTH ^(*4)	
(P	lug-B	lox)	(A)	SYMBOL	TYPE	(A)	SYMBOL	TYPE	(mm²)	Halogen Free	Standard (PVC)	(m)	
			10	BL	L/N/PE				3x0,75	052XZ1-F	-	0,75	
				В	L/N/PE(CE)	-	-	-	3x1,5	052XZ1-F	NYMHY	0,75	
		PLUG	16	D	3P/N/PE(CE)				5x1,5	052XZ1-F	NYMHY	0,75	
		1 200	10	K	L/N/PE(CE)	16	FS	L/N/PE(CE)	_	_	_	_	
	S			IV.	3P/N/PE(CE)	10	го	(K:5x20mm)		_	_		
	-				-	16	FS	L/N/PE(CE)					
30.		вох	-	-				(K:10x38mm)	-	-	-	-	
lai l						25	S	3P/N/PE(CE)					
Colour Coded Covers indicate the phases, Special Lock Mechanism and Earthing Safety								Empty ^(*5)					
is, S				В	L/N/PE	-	-	-	3x1,5	052XZ1-F	NYMHY	0,75	
nase y Sa					L/N/L _{ACK} /PE				4x1,5	052XZ1-F	NYMHY	0,75	
e pt				K	L/N/PE	-	-	-	-	-	-	-	
Eart	SL-ACK	PLUG ^(*6)	JG ^(*6) 16	16		L/N/L _{ACK} /PE	\vdash						
lical	SL			-	-	16	FS	L/N/PE					
S in S								(K:5x20mm)	_	_	_	_	
vers								L/N/L _{ACK} /PE					
25								(K:5x20mm)					
⊒ ge				В	D1-D2/L/N/PE	_	_	_	5x1,5	052XZ1-F	NYMHY	0,75	
ŏ					D1-D2/L/N/L _{ACK} /PE				6x1,5	052XZ1-F	NYMHY	0,75	
<u>@</u>	CK			K	D1-D2/L/N/PE	_	_	_		_	_	_	
ت	SL-DALI+ACK	PLUG ^(*6)	16	IX	D1-D2/L/N/L _{ACK} /PE								
	DAL	PLUG	10					D1-D2/L/N/PE					
	SL.					4.0		(K:5x20mm)	-	-	-	-	
				-	-	16	FS	D1-D2/L/N/L _{ACK} /PE					
								(K:5x20mm)	-	-	-	-	

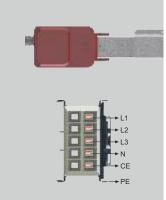
DESCRIPTIONS:	SY
(*1) Housing is the PE conductor. Equivalent cross-section area is 5,8 mm ² . For clean earth (CE), conductor cross-section area is 2,54 mm ² for 25A;	B K
3,98 mm² for 32A and 6,16 mm² for 40A. (*2) If the ACK (Emergency Kit Unit) neutral line is common, the reference phase (L _{ACK}) must be taken from a point after the leakage current protection device cutter on the page. (See page 31 and 20)	
outlet on the panel. (See pages 21 and 29) (*3) 10A. (BL) Tap-off Plug /16A. (B) Tap-off Plug / 16A. (FS) Fused Holder Tap-off Plug / 16A. (K) Tap-off Plug with clips / 25A-S, 16A-FS. Empty Tap-off Box;lt can be manufactured with clean earth (CE).	D' D'
(*4) Cables may be manufactured with the desired length. (Standard length is 0,75m.)	<u>K</u>
(*5) Included DIN rail. Optionally, can be manufactured with mounted MCB. (MCB) is not included in standard production.	
(*6) SL-ACK and SL-DALI + ACK Busbar outlet windows and plug contacts are addressed and the use of SL and DL plugs in this case is blocked.	

	SYMBOLS:				
	B Tap-off Plug (Unfused with cable)				
	K Tap-off Plug with Clips (Unfused)				
	FS	With cyclindrical fuse (The cyclindrical fuse holder is			
		5x20 mm. or 10x38 mm. and fuse is not included.)			
e e	S	Empty, Suitable for MCB usage. (MCB is not included.)			
	EMG	Emergency kit reference voltage / feed.			
	D1 Dali communication line - 1,				
	D2	Dali communication line - 2			
)	D2 Dali communication line - 2 K: 5 x 20 mm Cyclindrical fuse length Cyclindrical fuse diameter Fuse Holder				



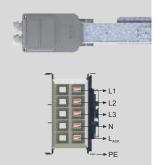
E-LINE SL

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Product Selection Tables / Feeder Units	8-10
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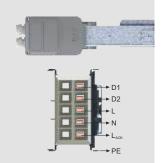
E-LINE SL - ACK

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E-LINE SL - DALI + ACK

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E-LINE SL / SL - ACK / SL - DALI + ACK

Brackets and Joints Busbar and Fitting Brackets Joint Installation Tap-off Plugs Installation Tap-off Box Installation Technical Specifications Product Overview (SL) Product Overview (SL-ACK) Product Overview (SL-DALI+ACK) CE Declaration of Conformity Certificates	34-36 37 38-39 40-42 43 44 45 46 47 48-50
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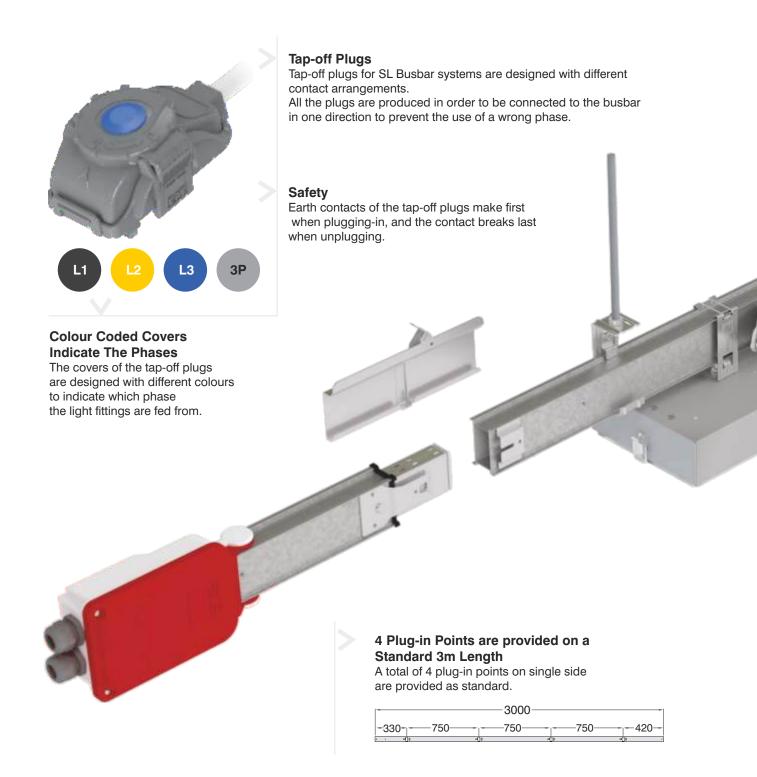


ELINESL

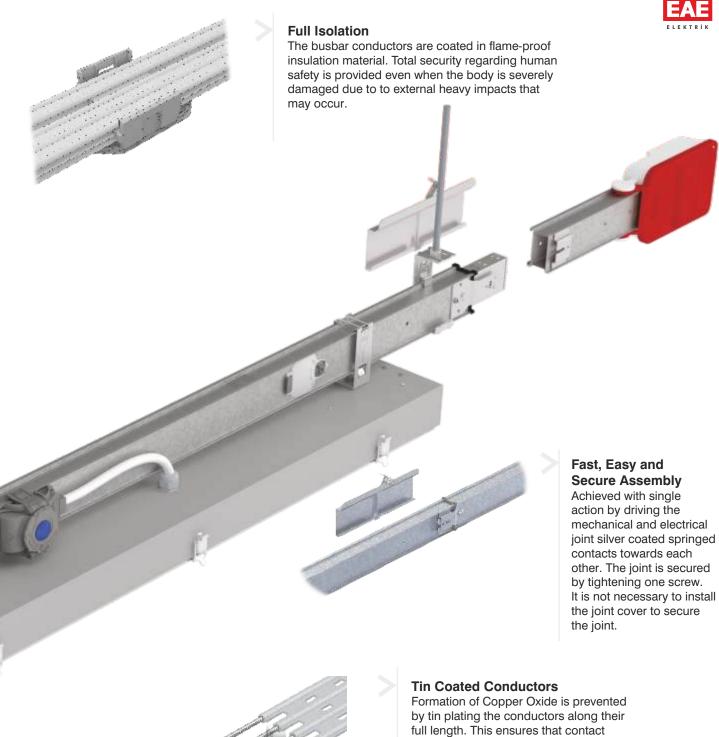
► General Characteristics

E-Line DL Busbar Distribution Systems are used in building electrical installations with a power requirement of 25 to 40A. 16A output sockets and 25A output boxes are designed to supply lighting and wall socket circuit as per their specifications.

EAE Busbar Systems are produced in accordance with ISO 9001 standards with a certified Quality Assurance System using the world's latest manufacturing technologies. Units are designed and tested according to IEC 61439-6.







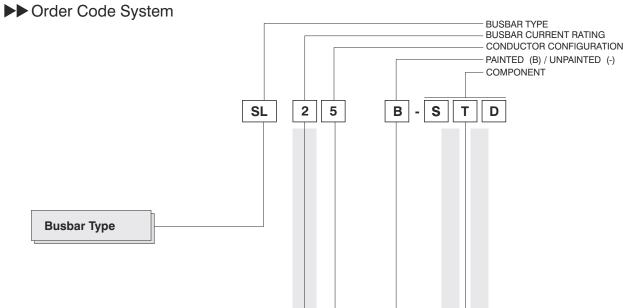
Formation of Copper Oxide is prevented by tin plating the conductors along their full length. This ensures that contact resistances are minimised. The contacts of the tap-off plugs contact the busbar conductors on two surfaces.



The contacts at the joints of the busbar and the contacts of all tap-off units are silver coated. The silver coating minimises the contact impedances, thus preventing the over-heating of the contacts in case of possible over-loads.







Busbar Rated Current		Code
	25A	2
SL	32A	3
	40A	4

Busbar Current Rating

Components

Standard Length	STD
Special Length	Х
Feeder Box	B1
End Feeder Box	B2
Central Feeder Box	во
Flexible Elbow	FD
Underfloor Feeder	B1
Underfloor End Feeder	B2

Painted(*) Unpainted

(*) It may be manufactured as painted as per customer request.

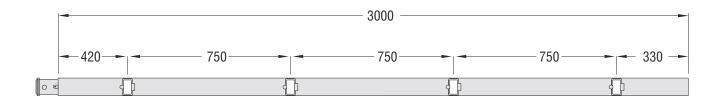
Conductor Configuration

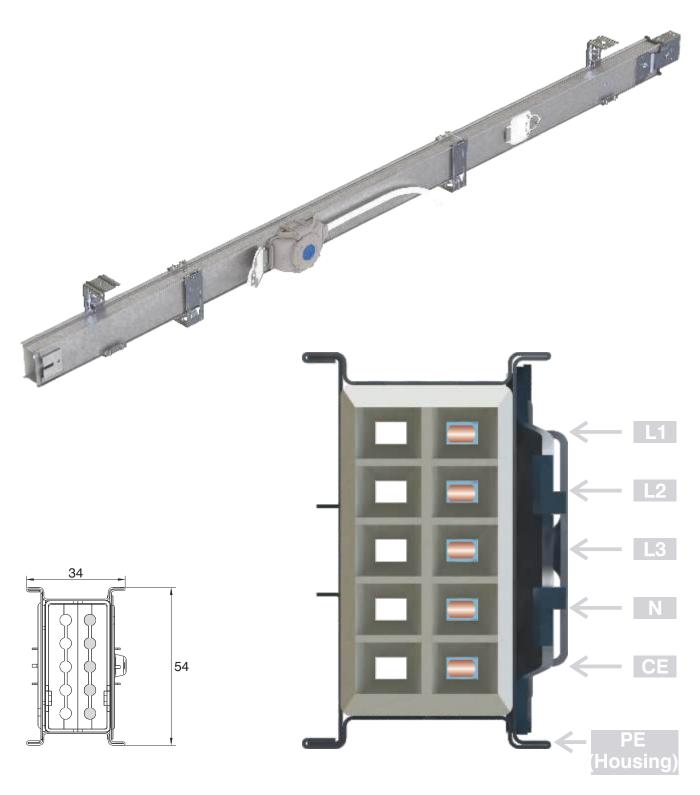
Conductor Size	Code	Configuration
2 Conductors	2	L3, N, PE(Housing)
3 Conductors	3	L3, N, CE,PE(Housing)
4 Conductors	4	L1, L2, L3, N, PE(Housing)
5 Conductors	5	L1, L2, L3, N, CE,PE(Housing)



►► General Product Structure



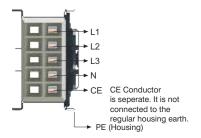




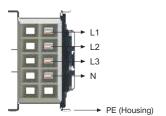


▶▶ Product Selection Tables / Standard Busbars

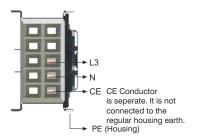




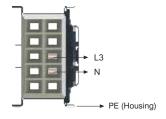
Current (A)	Description	Conductor Conf.	Order Code
25	SL 25 Busbar	5	3055928
32	SL 35 Busbar	5	3055929
40	SL 45 Busbar	5	3055930



Current (A)	Description	Conductor Conf.	Order Code
25	SL 24 Busbar	4	3055924
32	SL 34 Busbar	4	3055925
40	SL 44 Busbar	4	3055927



Current (A)	Description	Conductor Conf.	Order Code
25	SL 23 Busbar	3	3055921
32	SL 33 Busbar	3	3055922
40	SL 43 Busbar	3	3055923



Current (A)	Description	Conductor Conf.	Order Code
25	SL 22 Busbar	2	3055917
32	SL 32 Busbar	2	3055918
40	SL 42 Busbar	2	3055919

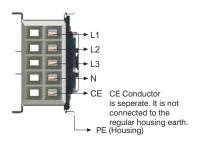
Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.



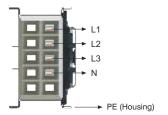
▶▶ Product Selection Tables / Special Straight Length Busbars



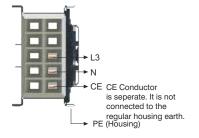


Special Length Busbars are manufactured as 1m/1,5m/2m/2,5m.

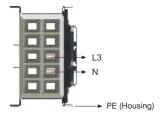
Current (A)	Description	Conductor Conf.	Order Code
25	SL 25 Special Length	5	3055940
32	SL 35 Special Length	5	3055941
40	SL 45 Special Length	5	3055942



Current (A)	Description	Conductor Conf.	Order Code
25	SL 24 Special Length	4	3055937
32	SL 34 Special Length	4	3055938
40	SL 44 Special Length	4	3055939



Current (A)	Description	Conductor Conf.	Order Code
25	SL 23 Special Length	3	3055934
32	SL 33 Special Length	3	3055935
40	SL 43 Special Length	3	3055936



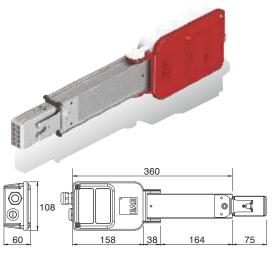
Current (A)	Description	Conductor Conf.	Order Code
25	SL 22 Special Length	2	3055931
32	SL 32 Special Length	2	3055932
40	SL 42 Special Length	2	3055933

Body is manufactured from 0.50 mm galvanised sheet steel.

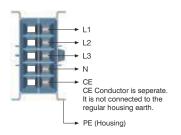
For non-standard product, please contact our technical office.

▶▶ Product Selection Tables / Feeder Units





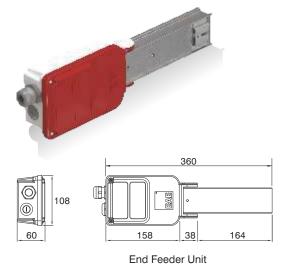
Feeder Unit



(B1) Feeder Units

Current (A)	Description	Busbars	Order Code
25	SL 25 - B1 Feeder Unit	SL 25 SL 24 SL 23 SL 22	3055943
32	SL 35 - B1 Feeder Unit	SL 35 SL 34 SL 33 SL 32	3055945
40	SL 45 - B1 Feeder Unit	SL 45 SL 44 SL 43 SL 42	3055946

^{*} With PE Conductor and M25 Gland as standard.



L3 N CE CE Conductor is seperate. It is not connected to the regular housing earth. PE (Housing)
--

(B2) End Feeder Units

Current (A)	Description	Busbars	Order Code
25	SL 25 - B2 End Feeder Unit	SL 25 SL 24 SL 23 SL 22	3055948
32	SL 35 - B2 End Feeder Unit	SL 35 SL 34 SL 33 SL 32	3055949
40	SL 45 - B2 End Feeder Unit	SL 45 SL 44 SL 43 SL 42	3055951

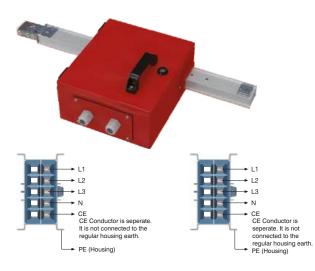
^{*} With PE Conductor and M25 Gland as standard.

The body is manufactured from 0,50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

▶▶ Product Selection Tables / Feeder Units

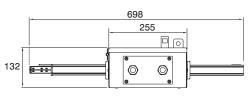




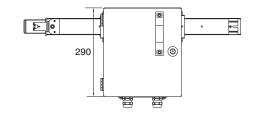
(BO) Central Feeder Units

Current (A)	Description	Busbars	Order Code
25	SL 25 - BO Central Feeder Unit	SL 25 SL 24 SL 23 SL 22	3133158
32	SL 35 - BO Central Feeder Unit	SL 35 SL 34 SL 33 SL 32	3133160
40	SL 45 - BO Central Feeder Unit	SL 45 SL 44 SL 43 SL 42	3133162

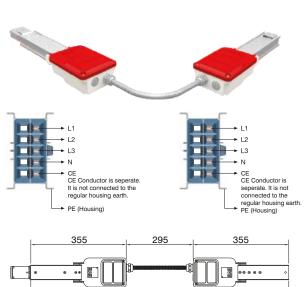
* With PE Conductor and M25 Gland as standard.



Central Feeder Unit



(FD) Flexible Elbow



1005

Current (A)	Description	Busbars	Order Code
25	SL 25 - FD Flexible Elbow	SL 25 SL 24 SL 23 SL 22	3055952
32	SL 35 - FD Flexible Elbow	SL 35 SL 34 SL 33 SL 32	3055953
40	SL 45 - FD Flexible Elbow	SL 45 SL 44 SL 43 SL 42	3055954

* With PE Conductor and M25 Gland as standard.

Flexible Elbow

Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

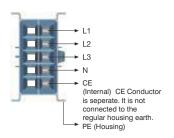


▶▶ Product Selection Tables / Raised Underfloor Feeder Units





-	71	-	428	3	1
108	60	158	70	200	75

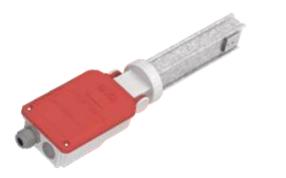


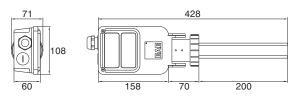
Feeder Unit

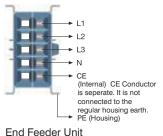
(B1) Feeder Units

Current (A)	Description	Busbars	Order Code
25	SL 25 - B1 Raised Underfloor Feeder Unit	SL 25 SL 24 SL 23 SL 22	3055973
32	SL 35 - B1 Raised Underfloor Feeder Unit	SL 35 SL 34 SL 33 SL 32	3055974
40	SL 45 - B1 Raised Underfloor Feeder Unit	SL 45 SL 44 SL 43 SL 42	3055975

^{*} With PE conductor and M25 Gland as standard.







End Feeder Unit

(B2) End Feeder Units

Current (A)	Description	Busbars	Order Code
25	SL 25 - B2 Raised Underfloor End Feeder Unit	SL 25 SL 24 SL 23 SL 22	3055980
32	SL 35 - B2 Raised Underfloor End Feeder Unit	SL 35 SL 34 SL 33 SL 32	3055981
40	SL 45 - B2 Raised Underfloor End Feeder Unit	SL 45 SL 44 SL 43 SL 42	3055982

^{*} With PE conductor and M25 Gland as standard.

Body is manufactured from 0.50 mm galvanised sheet steel. For non-standard product, please contact our technical office.



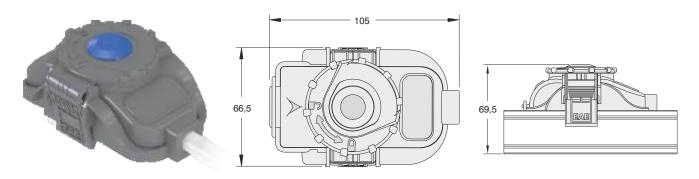
►► Product Selection Tables / Tap-off Plugs



Tap-off Plug (B)

Current		Cable Length / Type				Order Code		
(A)	Description	Halogen Free	Standard (PVC)	Phase	Properties	Halogen Free	Standard (PVC)	
	DL / SL 16 - B Tap-off Plug L1	0,75 m.	0,75 m.	L1, N, PE	With Black Cover	3063696	3086972	
16		052XZ1-F	052XZ1-F 3x1,5 mm ²	NYMHY 3x1.5 mm ²	L2, N, PE	With Yellow Cover	3063697	3086974
10	DL / SL 16 - B Tap-off Plug L3	cable(*)	cable(*)	L3, N, PE	With Blue Cover	3063698	3086975	
DL / SL 16 - B Tap-off	DL / SL 16 - B Tap-off Plug L123	5x1,5 mm ²	5x1,5 mm²	L1, L2, L3, N, PE	With Grey Cover	3066319	3086976	

^{*} Plugs with different length cable available upon request.

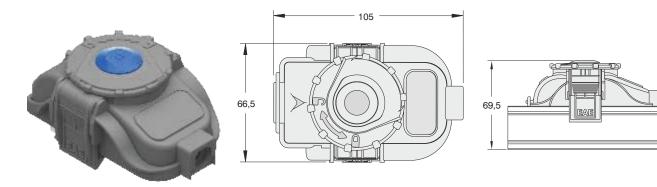


DL / SL 16 - B

Plug with Fuse Holder (FS) / Plug with Clips (K)

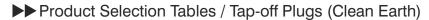
Current (A)	Description	Cable Length / Type	Phase	Properties		Order Code
	DL / SL 16 - FS Tap-off Plug L1	-	L1, N, PE	With Black Cover	With 5 x 20 mm fuse holders (**)	3063703
16	DL / SL 16 - FS Tap-off Plug L2	-	L2, N, PE	With Yellow Cover		3063704
	DL / SL 16 - FS Tap-off Plug L3	-	L3, N, PE	With Blue Cover		3063705
	DL / SL 16 - K Tap-off Plug L1	-	L1, N, PE	With Black Cover	Without Fuses.	3063699
16	DL / SL 16 - K Tap-off Plug L2	-	L2, N, PE	With Yellow Cover	Max. diameter of feeder cable is	3063701
10	DL / SL 16 - K Tap-off Plug L3	-	L3, N, PE	With Blue Cover		3063702
	DL / SL 16 - K Tap-off Plug L123	-	L1, L2, L3, N, PE	With Grey Cover	Ø 11 mm.	3063700

^{**} Cylindrical fuse not included.



DL / SL 16 - FS DL / SL 16 - K



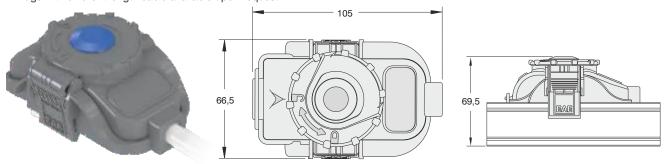




Tap-off Plug (B) (Clean Earth)

Current		Cable Length / Type				Order Code	
(A)	Description	Halogen Free	Standard (PVC)	Phase	Properties	Halogen Free	Standard (PVC)
	DL / SL 16 - B - CE Tap-off Plug L1	0,75 m.	0,75 m.	L1, N, CE	With Black Cover	3063709	3086978
16	DL / SL 16 - B - CE Tap-off Plug L2	052XZ1-F 3x1,5 mm ² 3	NYMHY 3x1 5 mm ²	L2, N, CE	With Yellow Cover	3063710	3086979
10	DL / SL 16 - B - CE Tap-off Plug L3	cable(*)	cable(*)	L3, N, CE	With Blue Cover	3063711	3086980
	DL / SL 16 - B - CE Tap-off Plug L123	5x1,5 mm ²	5x1,5 mm ²	L1, L2, L3, N, CE	With Grey Cover	3066323	3086982

^{*} Plugs with different length cable available upon request.



DL / SL 16 - B - CE

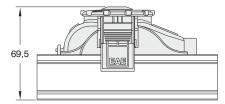
Plug with Fuse Holder (FS) / Plug with Clips (K) (Clean Earth)

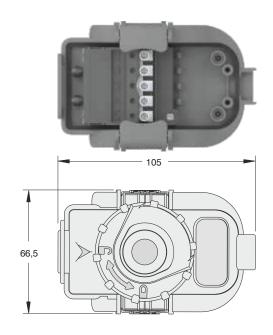
Current (A)	Description	Cable Length / Type	Phase	Properties		Order Code
	DL / SL 16 - FS - CE Tap-off Plug L1	-	L1, N, CE	With Black Cover	With 5 x 20 mm fuse holders (**)-	3063717
16	DL / SL 16 - FS - CE Tap-off Plug L2	-	L2, N, CE	With Yellow Cover	,	3063718
	DL / SL 16 - FS - CE Tap-off Plug L3	-	L3, N, CE	With Blue Cover		3063719
	DL / SL 16 - K - CE Tap-off Plug L1	-	L1, N, CE	With Black Cover	Without Fuses.	3063712
16	DL / SL 16 - K - CE Tap-off Plug L2	-	L2, N, CE	With Yellow Cover	Max. diameter of feeder cable is	3063715
10	DL / SL 16 - K - CE Tap-off Plug L3	-	L3, N, CE	With Blue Cover		3063716
	DL / SL 16 - K - CE Tap-off Plug L123	-	L1, L2, L3, N, CE	With Grey Cover	Ø 11 mm.	3063713

^{**} Cylindrical fuse not included.



DL / SL 16 - FS -CE DL / SL 16 - K - CE









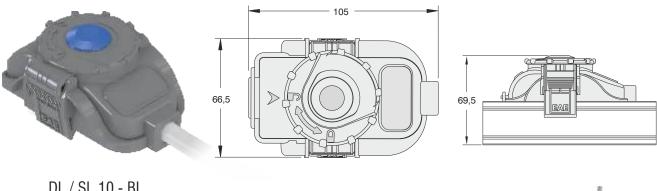


Tap-off Plug (BL)**

Current					Order Code
(A)	Description	Cable Length / Type	Phase	Properties	senza alogeno
	DL / SL 10 - BL Tap-off Plug L1		L1, N, PE	With Black Cover	3134599
10	DL / SL 10 - BL Tap-off Plug L2	052XZ1-F 3x0,75 mm²	L2, N, PE	With Yellow Cover	3134600
	DL / SL 10 - BL Tap-off Plug L3		L3, N, PE	With Blue Cover	3134601

^{*} Plugs with different length cable available upon request.

^{**} It is used only for lighting fittings supply in lighting circuits.





▶▶ Product Selection Tables / Tap-off Boxes

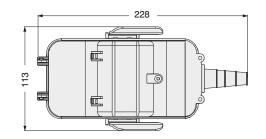


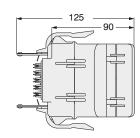
Suitable for MCB Empty Tap-off Box (S)

Current (A)	Description	Phase	Properties	Order Code
	DL/SL 25 - S Empty Tap-off Box(CE)* L1,L2,L3	L1, L2, L3, N, CE		3024481
	DL/SL 25 - S Empty Tap-off Box(CE)* L1	L1, N, CE		3066511
	DL/SL 25 - S Empty Tap-off Box(CE)* L2	L2, N, CE		3066512
25	DL/SL 25 - S Empty Tap-off Box(CE)* L3	L3, N, CE	Included DIN rail. It can be used	3066513
25	DL/SL 25 - S Empty Tap-off Box (PE)* L1,L2,L3	L1, L2, L3, N, PE	with MCB.(*)	3024482
	DL/SL 25 - S Empty Tap-off Box (PE)* L1	L1, N, PE		3066508
	DL/SL 25 - S Empty Tap-off Box (PE)* L2	L2, N, PE		3066509
	DL/SL 25 - S Empty Tap-off Box (PE)* L3	L3, N, PE		3066510

* MCB not included.







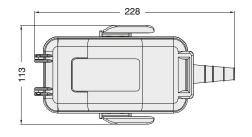
DL / SL 25 - S (CE) DL / SL 25 - S (PE)

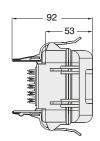
Suitable for Fuse Holder Empty Tap-off Box (FS)

Current (A)	Description	Phase	Properties	Order Code
	DL/SL 16 - FS Empty Tap-off Box(CE)* L1,L2,L3	L1, L2, L3, N, CE		3084928
	DL/SL 16 - FS Empty Tap-off Box(CE)* L1	L1, N, CE		3084929
	DL/SL 16 - FS Empty Tap-off Box(CE)* L2	L2, N, CE	Included DIN rail. It can be used with	3084930
16	DL/SL 16 - FS Empty Tap-off Box(CE)* L3	L3, N, CE	10x38mm	3084931
10	DL/SL 16 - FS Empty Tap-off Box (PE)* L1,L2,L3	L1, L2, L3, N, PE	cylindrical fuse holder and cylindrical fuse.	3084923
	DL/SL 16 - FS Empty Tap-off Box (PE)* L1	L1, N, PE	(**)	3084925
	DL/SL 16 - FS Empty Tap-off Box (PE)* L2	L2, N, PE		3084926
	DL/SL 16 - FS Empty Tap-off Box (PE)* L3	L3, N, PE		3084927

^{**} Cylindrical fuse not included.







DL / SL 16 - FS (CE) DL / SL 16 - FS (PE)





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► General Characteristics

E-Line SL-ACK Busbar Systems are used in 25-40A energy consuming building electrical installations. Due to the features of the 16A outlet plugs, especially the lighting fixtures with emergency lighting kit (ACK) is designed to feed lighting circuits on a single output pin.

EAE Busbar Systems are produced in accordance with ISO 9001 standards with a certified Quality Assurance System using the world's latest manufacturing technologies. Units are designed and tested according to IEC 61439-6.

Tap-off Plugs

Tap-off plugs of SL-ACK busbar systems are designed with different contact arrangements. All the plugs are produced in one direction to prevent the use of a wrong phase.

Safety

Earth contacts of the tap-off plugs make first when plugging-in, and the contact breaks last when unplugging.



Colour Coded Covers Indicate The Phases

The covers of the tap-off plugs are designed with different colours to indicate which phase the light fittings are fed from.

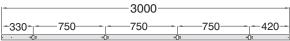
Tin Coated Conductors and **Contact Structure**

Formation of Copper Oxide is prevented by tin plating the conductors along their full length. This ensures that contact resistances are minimised. The contacts of the tap-off plugs contact the busbar conductors on two surfaces.

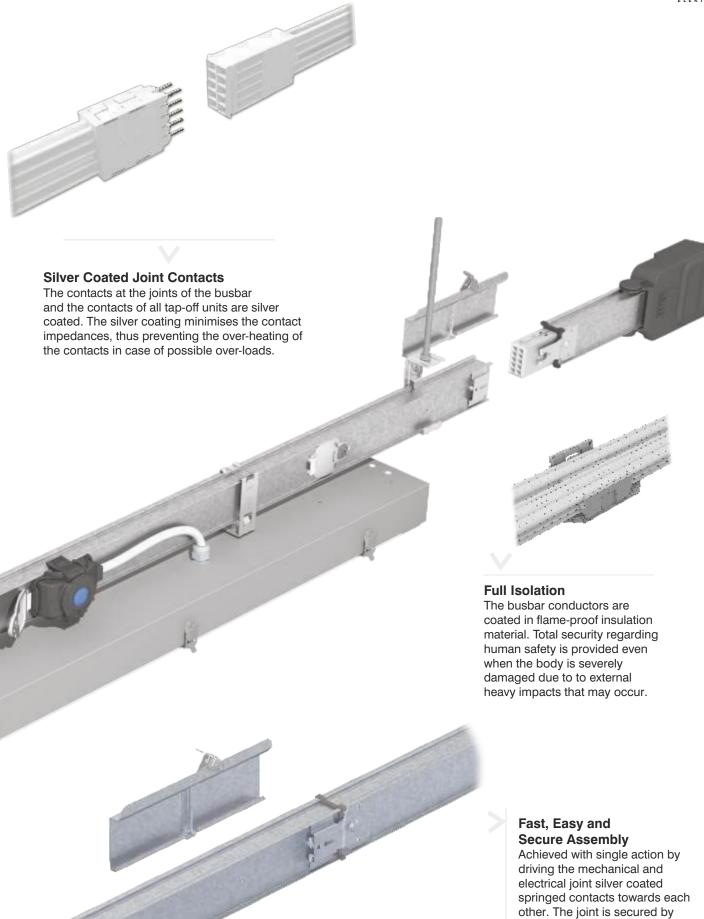


3m Standard Length 4 Current

On one side of the busbar there is a total of 4 points of current tap-off points and is offered as standard.







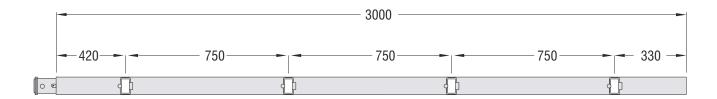
17

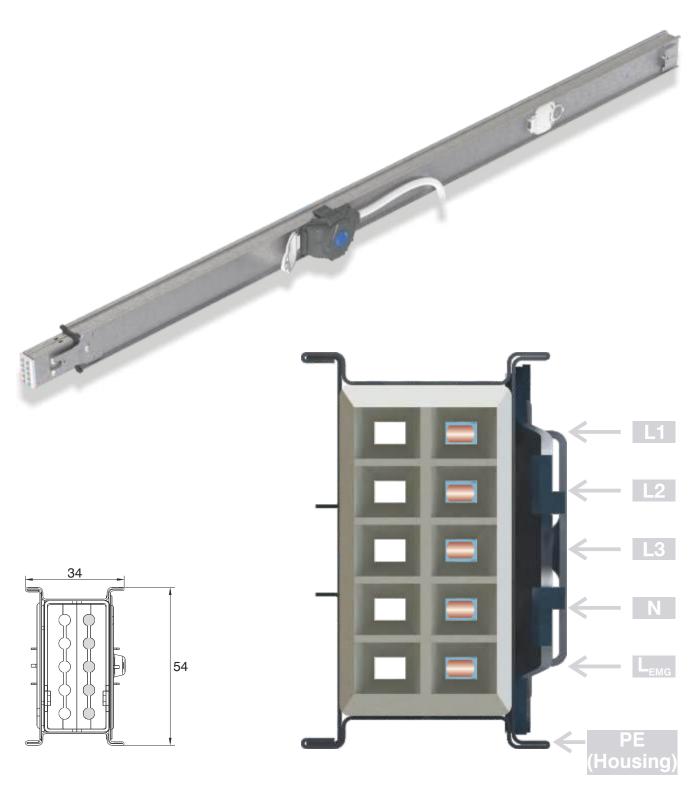
tightening one screw. It is not necessary to install the joint cover

to secure the joint.

▶▶ Product Selection Tables / Standard Busbars



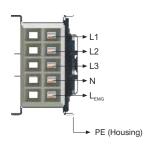






►► Product Selection Tables / Busbars





Standard Busbar (3m)

Current (A)	Description	Conductor Conf.(*)	Order Code
25	SL 25 - ACK - STD Busbar	5	3108871
32	SL 35 - ACK - STD Busbar	5	3108888
40	SL 45 - ACK - STD Busbar	5	3108904



Current (A)	Description	Conductor Conf.(*)	Order Code
25	SL 23 - ACK - STD Busbar	3	3108872
32	SL 33 - ACK - STD Busbar	3	3108889
40	SL 43 - ACK - STD Busbar	3	3108905



Special Length Busbar (Special Length Busbars are manufactured as 1m/1,5m/2m/2,5m.)

Current (A)	Description	Conductor Conf.(*)	Order Code			
25	SL 25 - ACK - X Special Length	5	3108873			
32	SL 35 - ACK - X Special Length	5	3108890			
40	SL 45 - ACK - X Special Length	5	3108906			



Current (A)	Description	Conductor Conf.(*)	Order Code
25	SL 23 - ACK - X Special Length	3	3108874
32	SL 33 - ACK - X Special Length	3	3108891
40	SL 43 - ACK - X Special Length	3	3108907

ATTENTION:

- (*) SL-ACK Busbar; Is three phase, and the reference voltage of the power supply, remote control and emergency kit unit (ACK) of the luminaries is provided by a single plug.
- Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

▶▶ Product Selection Tables / Feeder Units

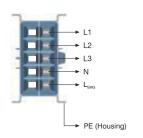


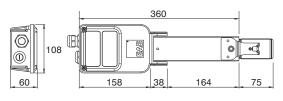


(B1) Feeder Units

Current (A)	Description	Busbars	Order Code
25	SL 25 - ACK - B1 Feeder Unit	SL - ACK 25 SL - ACK 23	3108878
32	SL 35 - ACK - B1 Feeder Unit	SL - ACK 35 SL - ACK 33	3108895
40	SL 45 - ACK - B1 Feeder Unit	SL - ACK 45 SL - ACK 43	3108911

^{*} With M25 Gland as standard.



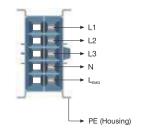


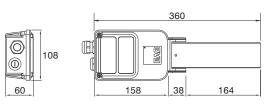
Feeder Unit

(B2) End Feeder Units

Current (A)	Description	Busbars	Order Code	
25	SL 25 - ACK - B2 End Feeder Unit	SL - ACK 25 SL - ACK 23	3108879	
32	SL 35 - ACK - B2 End Feeder Unit	SL - ACK 35 SL - ACK 33	3108896	
40	SL 45 - ACK - B2 End Feeder Unit	SL - ACK 45 SL - ACK 43	3108912	

^{*} With M25 Gland as standard.





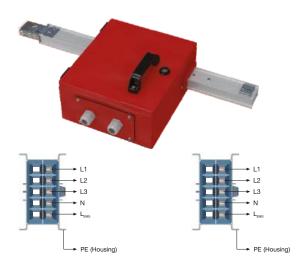
End Feeder Unit

The body is manufactured from 0,50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

▶▶ Product Selection Tables / Feeder Units

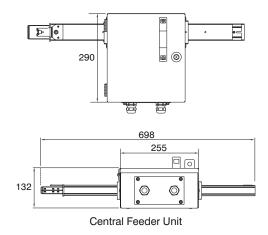




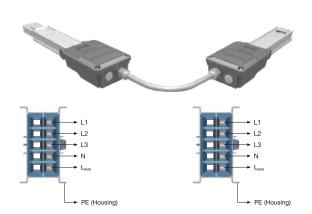
(BO) Central Feeder Units

Current (A) Description	Busbars	Order Code
25	SL 25 - ACK - BO Central Feeder Unit	SL - ACK 25 SL - ACK 23	3133164
32	SL 35 - ACK - BO Central Feeder Unit	SL - ACK 35 SL - ACK 33	3133166
40	SL 45 - ACK - BO Central Feeder Unit	SL - ACK 45 SL - ACK 43	3133168

^{*} With M25 Gland as standard.

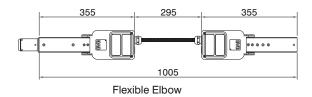


(FD) Flexible Elbow



Current (A)	Description	Busbars	Order Code
25	SL 25 - ACK - FD Flexible Elbow	SL - ACK 25 SL - ACK 23	3108882
32	SL 35 - ACK - FD Flexible Elbow	SL - ACK 35 SL - ACK 33	3108899
40	SL 45 - ACK - FD Flexible Elbow	SL - ACK 45 SL - ACK 43	3108915

^{*} With M25 Gland as standard.



Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

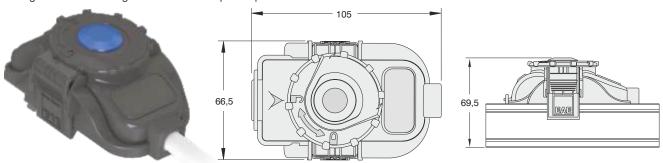
►► Product Selection Tables / Tap-off Plugs



Tap-off Plug (B)

Current		Cable Length / Type				Order Code	
(A)	Description	Halogen Free	Standard (PVC)	Phase	Properties	Halogen Free	Standard (PVC)
	SL - ACK 16 - B Power Tap-off Plug L1		0,75 m.	L1, N, PE	With Black Cover	3108952	3108953
16	SI - ALK 16 - B POWAR ISD-Off PILIO I 2	3x1,5 mm	3x1,5 mm ² 3x1,5 mm ²	L2, N, PE	With Yellow Cover	3108956	3108957
	SL - ACK 16 - B Power Tap-off Plug L3			L3, N, PE	With Blue Cover	3108958	3108959
	SL-ACK 16 - B Power+ACK Tap-off Plug L1		0,75 m.	L1, N, L _{ACK} , PE	With Black Cover	3108960	3108961
16	SI-ALK 16 - B POWAR + ALK Jan-Off PILIO 12	052XZ1-F	052XZ1-F NYMHY = 4x1,5 mm²_	L2, N, L _{ACK} , PE	With Yellow Cover	3108962	3108963
	SL-ACK 16 - B Power+ACK Tap-off Plug L3	Cable(*)	Cable(*)	L3, N, L _{ACK} , PE	With Blue Cover	3108964	3108965

^{*} Plugs with different length cable available upon request.



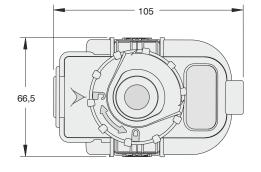
SL - ACK 16 - B Power SL - ACK 16 - B Power+ACK

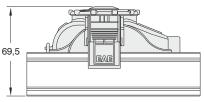
Plug with Fuse Holder (FS) / Plug with Clips (K)

Current (A)	Description	Cable Length / Type	Phase	Prop	erties	Order Code
16	SL-ACK 16 - FS Power Tap-off Plug L1	-	L1, N, PE	With Black Cover	With 5 x 20 mm fuse holders (**)-	3108966
	SL-ACK 16 - FS Power Tap-off Plug L2	-	L2, N, PE	With Yellow Cover	Max. diameter of	3108967
	SL-ACK 16 - FS Power Tap-off Plug L3	-	L3, N, PE	With Blue Cover	feeder cable is ⁻ Ø 11 mm.	3108968
	SL-ACK 16 - K Power Tap-off Plug L1	-	L1, N, PE	With Black Cover	Without Fuses.	3108972
16	SL-ACK 16 - K Power Tap-off Plug L2	-	L2, N, PE	With Yellow Cover	Max. diameter of feeder cable is	3108973
	SL-ACK 16 - K Power Tap-off Plug L3	-	L3, N, PE	With Blue Cover	Ø 11 mm.	3108974
	SL-ACK 16 - FS Power+ACK Tap-off Plug L1	-	L1, N, L _{ACK} , PE	With Black Cover	With 5 x 20 mm fuse holders (**)-	3108969
16	SL-ACK 16 - FS Power+ACK Tap-off Plug L2	-	L2, N, L _{ACK} , PE	With Yellow Cover	Max. diameter of	3108970
	SL-ACK 16 - FS Power+ACK Tap-off Plug L3	-	L3, N, L _{ACK} , PE	With Blue Cover	feeder cable is ⁻ Ø 11 mm.	3108971
	SL-ACK 16 - K Power+ACK Tap-off Plug L1	-	L1, N, L _{ACK} , PE	With Black Cover	Without Fuses.	3108976
16	SL-ACK 16 - K Power+ACK Tap-off Plug L2	-	L2, N, L _{ACK} , PE	With Yellow Cover Max. diame		3108977
	SL-ACK 16 - K Power+ACK Tap-off Plug L3	-	L3, N, L _{ACK} , PE	With Blue Cover	Ø 11 mm.	3108978

** Cylindrical fuse not included.



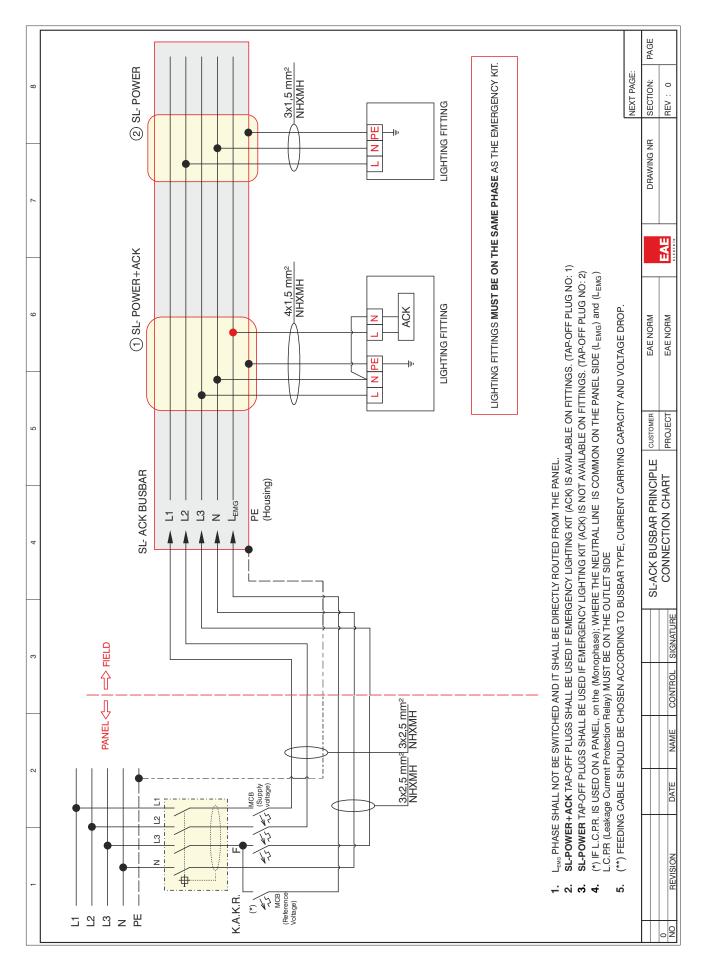




SL - ACK 16 - FS SL - ACK 16 - K

►► Busbar Principle Connection Chart





► General Characteristics

E-Line SL-DALI + ACK Busbar Systems are used in 25-40A energy consuming building electrical installation. Due to their 16A outlet plug features, especially the lighting fixtures with emergency lighting kit (ACK), DALI ballast lighting is designed to supply lighting circuits within lighting automation of luminaires.

EAE Busbar Systems are produced in accordance with ISO 9001 standards with a certified Quality Assurance System using the world's latest manufacturing technologies. Units are designed and tested according to IEC 61439-6.

Tap-off Plugs

Tap-off plugs of SL-DALI+ACK busbar systems are designed with different contact arrangements. All the plugs are produced in one direction to prevent the use of a wrong phase.

Safety

Earth contacts of the tap-off plugs make first when plugging-in, and the contact breaks last when unplugging.





Colour Coded Covers Indicate The Phases

The covers of the tap-off plugs are designed with different colours to indicate which phase the light fittings are fed from.

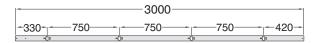
Tin Coated Conductors and Contact Structure

Formation of Copper Oxide is prevented by tin plating the conductors along their full length. This ensures that contact resistances are minimised. The contacts of the tap-off plugs contact the busbar conductors on two surfaces.

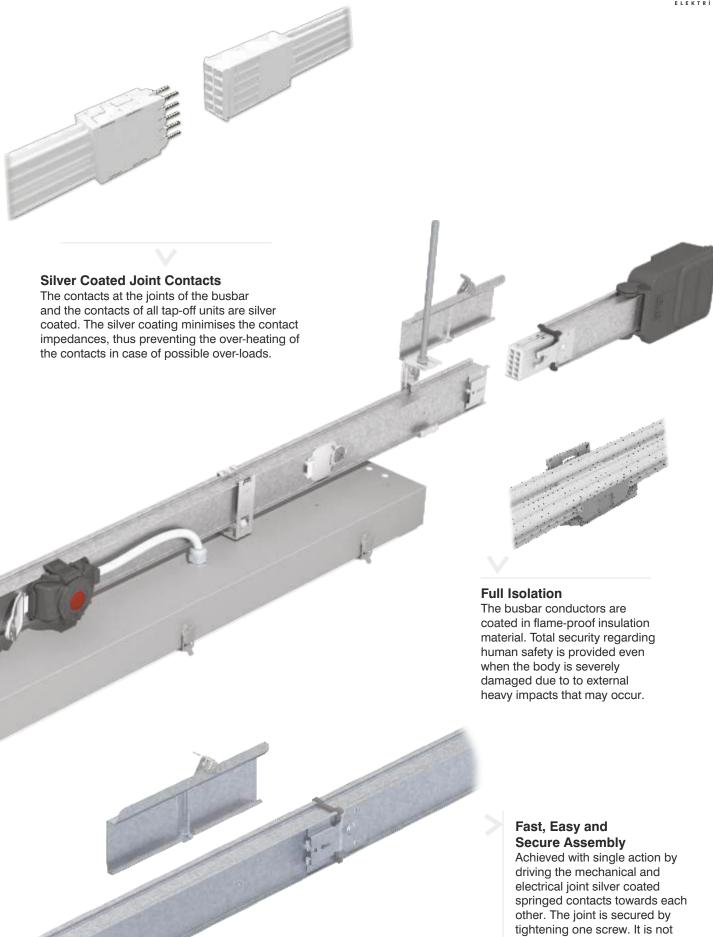


3m Standard Length 4 Current Tap-off Points

On one side of the busbar there is a total of 4 points of current tap-off points and is offered as standard.







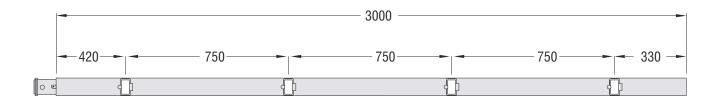
25

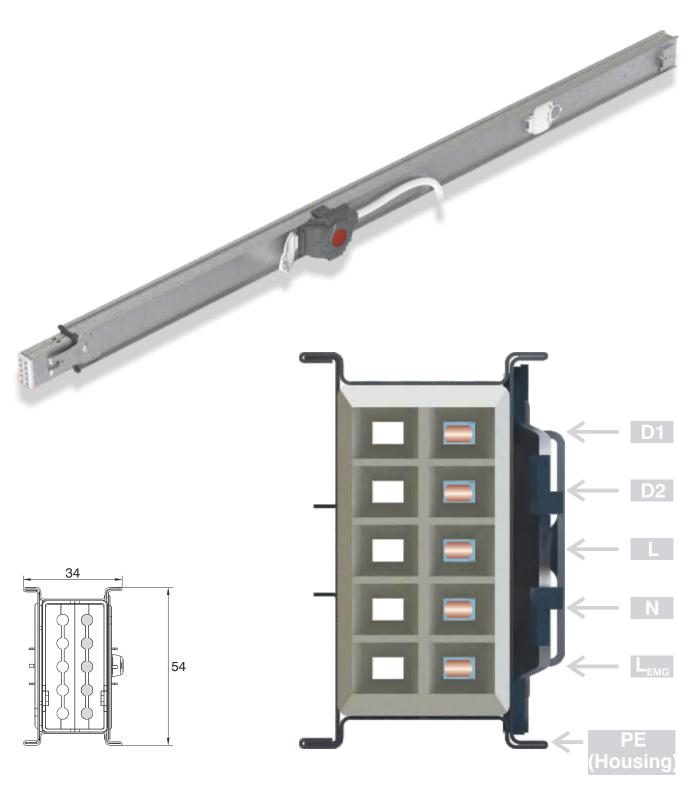
necessary to install the joint cover

to secure the joint.

▶▶ Product Selection Tables / Busbars







►► Product Selection Tables / Busbars



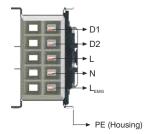


Standard Busbars (3m)

Current (A)	Description	Conductor Conf.(*)	Order Code
25	SL 25 - DALI+ACK - STD Busbar	5	3108918
32	SL 35 - DALI+ACK - STD Busbar	5	3108930
40	SL 45 - DALI+ACK - STD Busbar	5	3108942

Special Length Busbars (Special Length Busbars are manufactured as 1m/1,5m/2m/2,5m.)

Current (A)	Description	Conductor Conf.(*)	Order Code
25	SL 25 - DALI+ACK - X Special Length	5	3108919
32	SL 35 - DALI+ACK - X Special Length	5	3108931
40	SL 45 - DALI+ACK - X Special Length	5	3108943



ATTENTION:

(*) SL-DALI + ACK Busbar is single phase, and the reference voltage of the power supply, remote control and emergency kit unit (ACK) of the luminaries is provided by a single plug.

Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

▶▶ Product Selection Tables / Feeder Units

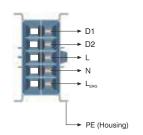


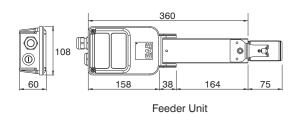


(B1) Feeder Units

Current (A)	Description	Busbars	Order Code
25	SL 25 - DALI + ACK B1 Feeder Unit	SL-DALI+ACK 25	3108923
32	SL 35 - DALI + ACK B1 Feeder Unit	SL-DALI+ACK 35	3108935
40	SL 45 - DALI + ACK B1 Feeder Unit	SL-DALI+ACK 45	3108947

^{*} With M25 Gland as standard.



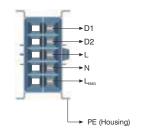


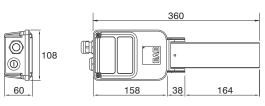
(B2) End Feeder Units



Current (A)	Description	Busbars	Order Code
25	SL 25 - DALI + ACK B2 End Feeder Unit	SL-DALI+ACK 25	3108924
32	SL 35 - DALI + ACK B2 End Feeder Unit	SL-DALI+ACK 35	3108936
40	SL 45 - DALI + ACK B2 End Feeder Unit	SL-DALI+ACK 45	3108948

^{*} With M25 Gland as standard.





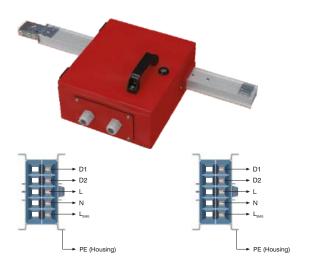
End Feeder Unit

The body is manufactured from 0,50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

▶ Product Selection Tables / Feeder Units

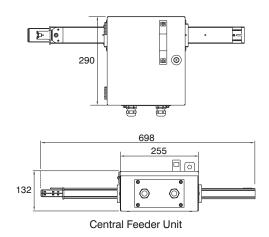




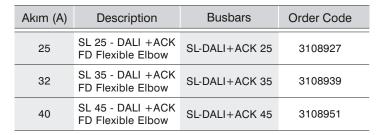
(BO) Central Feeder Units

Current (A)	Description	Busbars	Order Code	
25	SL 25 - DALI +ACK BO Central Feeder Unit	SL-DALI+ACK 25	3133171	
32	SL 35 - DALI +ACK BO Central Feeder Unit	SL-DALI+ACK 35	3133173	
40	SL 45 - DALI +ACK BO Central Feeder Unit	SL-DALI+ACK 45	3133175	

* With M25 Gland as standard.

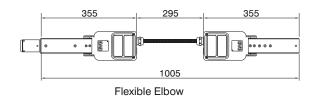


(FD) Flexible Elbow



^{*} With M25 Gland as standard.





Body is manufactured from 0.50 mm galvanised sheet steel.

For non-standard product, please contact our technical office.

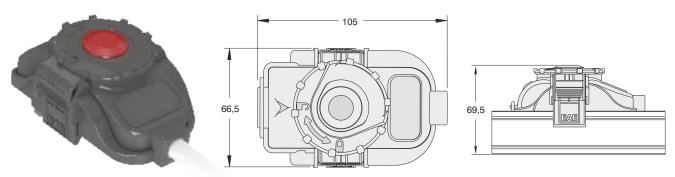
►► Product Selection Tables / Tap-off Plugs



Tap-off Plug (B)

Current		Cable Length / Type				Order Code	
(A)	Description	Halogen Free	Standard (PVC)	Phase	Properties	Halogen Free	Standard (PVC)
16	SL-DALI+ACK 16 - B Tap-off Plug D1,D2,L,N,L _{EMG}	0,75 m. 052XZ1-F 6x1,5 mm ² Cable(*)	0,75 m. NYMHY 6x1,5 mm ² Cable(*)	D1, D2, L, N, L _{EMG} , PE	With Red Cover	3108982	3108983
	SL-DALI 16 - B Tap-off Plug D1,D2,L,N	5x1,5 mm²	5x1,5 mm²	D1, D2, L, N, PE		3108984	3108985

^{*} Plugs with different length cable available upon request.



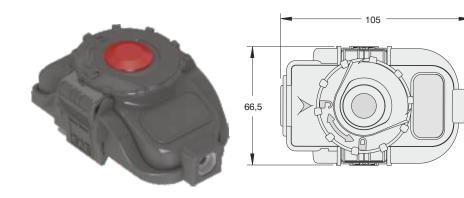
SL - DALI + ACK 16 - B

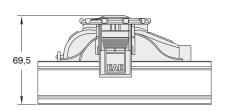
SL - DALI 16 - B

Plug with Fuse Holder (FS) / Plug with Clips (K)

Current (A)	Description	Cable Length / Type	Phase	Properties (Order Code		
16	SL 16 - FS DALI+ACK Tap-off Plug D1,D2,L,N,L _{EMG}	-	D1, D2, L, N, L _{ACK} , PE	With Red	With 5 x 20 mm fuse holders (**) Max. diameter of-	3108987		
16	SL 16 - FS DALI Tap-off Plug D1,D2,L,N	-	D1, D2, L, N, PE	Cover	Cover	feeder cable is Ø 11 mm.	3108988	
16	SL 16 - K DALI+ACK Tap-off Plug D1,D2,L,N,L _{EMG}	-	D1, D2, L, N, L _{ACK} , PE	Without Fuses. With Red Max. diameter of				3108990
10	SL 16 - K DALI Tap-off Plug D1,D2,L,N	-	D1, D2, L, N, PE	Cover	feeder cable is Ø 11 mm.	3108991		

^{**} Cylindrical fuse not included.





SL - DALI + ACK 16 - FS

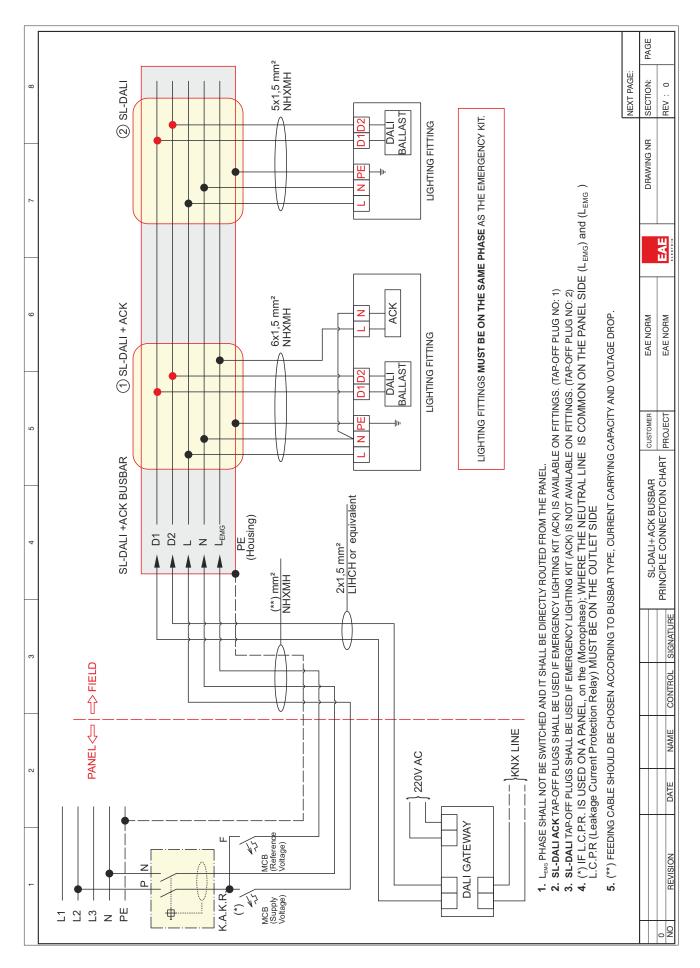
SL - DALI + ACK 16 - K

SL - DALI 16 - FS

SL - DALI 16 - K

►► Busbar Principle Connection Chart





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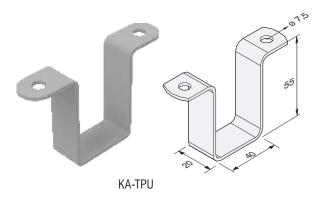


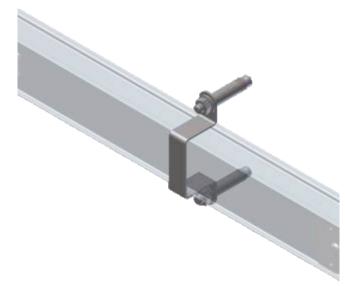
▶► Brackets and Joints



NOTE: All specified accessories; SL, SL-ACK, SL-DALI+ACK is valid for all busbar models.

Description	Order Code
KA - TPU Fitting U - Unpainted	3025158
KA - TPU Fitting U - Painted	3025159





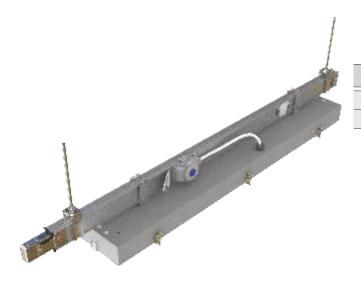
ATTENTION:

The joint cover must be attached to the screwless side of the busbar.



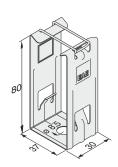
▶▶ Busbar and Fitting Brackets

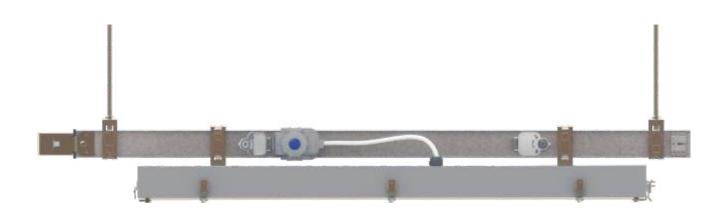


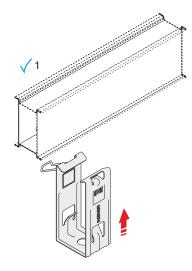


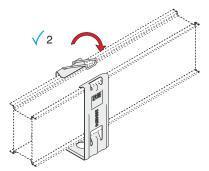
Description	Order Code
U-Bracket - Unpainted	1004874
U-Bracket - Painted	2037294

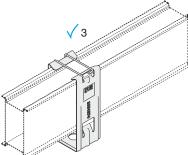














▶▶ Busbar and Fitting Brackets

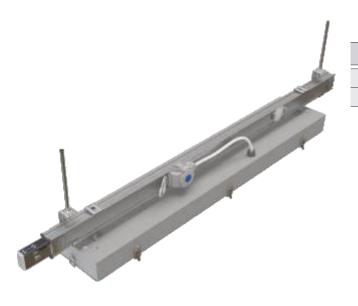


Description	Order Code	Description	Order Code
Universal Fitting Bracket - Unpainted	1004189	DL/SL Multifunctional Bracket - Unpainted	3122646
Universal Fitting Bracket - Painted	2033519	DL/SL Multifunctional Bracket - Painted	3122647
Ceiling Installation Wall Installation Floor Installation	99 19 55	23	25 9 0 0
		26	55 85
✓ 1	√2		3



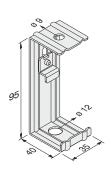
▶▶ Busbar and Fitting Brackets

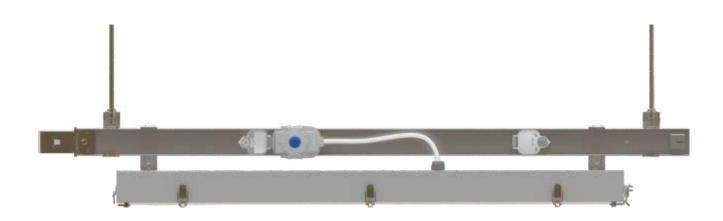


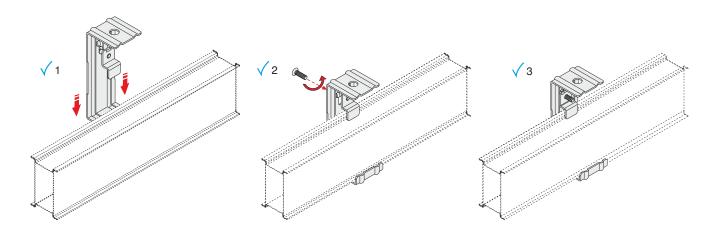


Description	Order Code
L-Bracket - Unpainted	1004283
L-Bracket - Painted	2037295







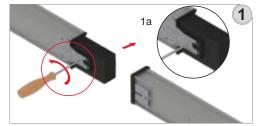




▶ Busbar Joint Installation



► SL Busbar Joint Installation



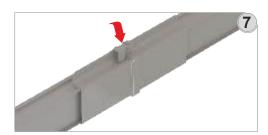
Detach the protective plastic from both ends of the busbar.(1a)



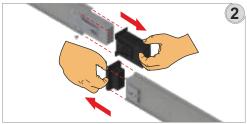
Connect the male side of the busbar with the female side of the other busbar. Make sure that you hear the locking sound for correct connection. (3a)



Install the joint cover to the screwless side.



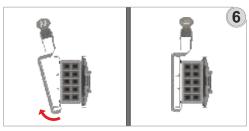
By closing the snap-in latch, you may complete the snap-in connection.



Remove the plastic protective covers from the system as shown in the figure.



Tightening the joint screw.



Make sure that the joint cover structure fully grips the busbars.

(**Caution:** The joint cover must be attached to the screwless side of the busbar.)

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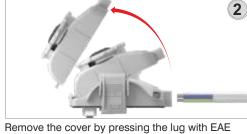
►► Tap-off Plug Fixing



► Tap-off Plugs with clips/Cyclindrical Fuse Installation



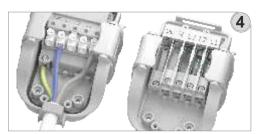
Use 052XZ1-F type cable, (3x1,5mm² for single phase, 5x1,5mm² for three phase) as required. Turn over the plug and remove the two screws.



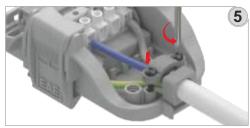
logo as shown in figure.



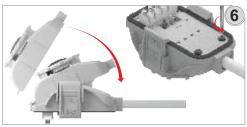
Remove the plastic cable grip. Pass the cable through the gland which maintains the IP rating.



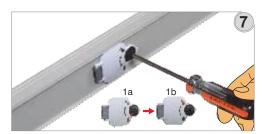
Connect the yellow green cable to the earth terminal, blue cable to "N" terminal and phase cables to related terminals of plug.



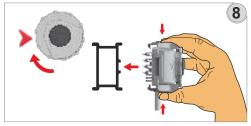
Refit the plastic cable grip.



Replace the cover and turn over the plug and tighten the screws.



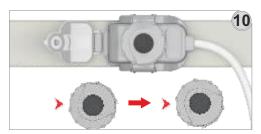
Put the plug in cover into open () position.



Put the lock mechanism of plug into open (➤■) position.



Direction of contacts should be as shown figure.



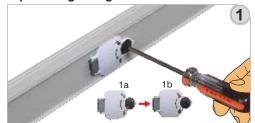
After connecting plug to busbar, put the lock mechanism of plug into close (>) position.



►► Tap-off Plug Fixing



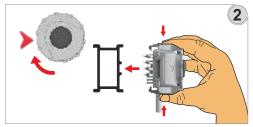
► Tap-off Plug Fixing



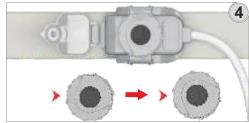
Turn the locking button on the busbar to OPEN () position.



Direction of contacts should be as shown figure.



Put the lock mechanism of plug into open (\gg \bigcirc) position.



After fixing the plug to the busbar properly, turn the locking knob to LOCK (\triangleright **D**) position.

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►► Tap-off Box Installation



Mounting Tap-off Box with Miniature Circuit Breaker (MCB)



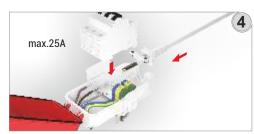
Use 052XZ1-F type cable, (3x2,5mm² for single phase, 5x2,5mm² for three phase) as required. Turn over the tap-off box and remove the two screws.



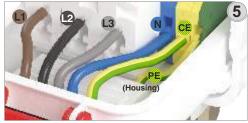
Open the cover of tap-off box.



Remove the plastic cable grip. Pass the cable through the gland which maintains the IP rating.



Install the MCB with a maximum of 25A to the DIN rail. (MCB should be "OFF" position.)



Connect the wiring at fuse entry terminal according to the colour combination as shown in the image. Make sure that the screws are tight.



Install the feeder cable at the fuse outlet terminal in the same way. Make sure that the screws are tight.



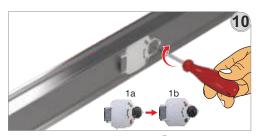
Refit the plastic cable grip.



Close the cover of tap-off box.



Turn over the tap-off box and tighten the screws. Make sure that the screws are tight.



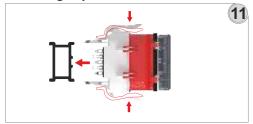
Put the plug in cover into open () position.



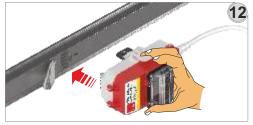
►► Tap-off Box Installation



► Mounting Tap-off Box with Miniature Circuit Breaker (MCB)



Align tap-off box with busbar plug-in while squeezing the ears on the sides of tap-off boxes.



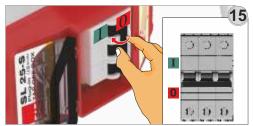
Direction at the tap-off box should be as shown in figure.



First, connect product earth terminal to busbar plug-in point. Then make sure that other terminals connect to busbar. Finally you should hear "CLICK" sound when you press tap-off box towards busbar.



Open the transparent cover of the tap-off box by untightening the screw.



Put "Miniature Circuit Breaker (MCB) "ON" position.



Close the transparent cover of the tap-off box by screwing.

ELINESL

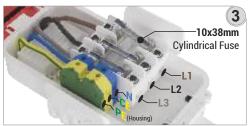
►► Tap-off Box Installation



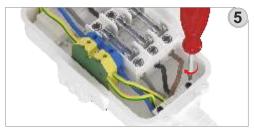
► Mounting Tap-off Box with Cylindrical Fuse



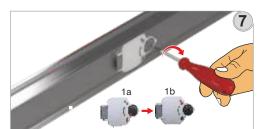
Use 052XZ1-F type cable, (3x2,5mm² for single phase, 5x2,5mm² for three phase) as required. Turn over the tap-off box and remove the two screws.



Install 10x38mm cylindrical fuse with maximum of 16A to fuse holder.



Fit the plastic component that organizes the cables and holds them together.



Put the plug-in cover to() position.



Direction at the tap-off box should be as shown in figure.



Make sure that tap-off box is locked.



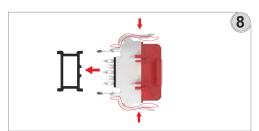
Open the cover of tap-off box.



Connect feeder cables as shown above.



After closing the tap-off box cover, turn the tap-off box upside down and tighten the screws.



Align tap-off box with busbar plug-in while squeezing the ears on the sides of tap-off boxes.



First, connect product earth terminal to busbar plug-in point. Then make sure that other terminals connect to busbar. Finally you should hear "CLICK" sound when you press tap-off box towards busbar.



▶► Technical Specifications



SL / SL-ACK / SL-DALI+ACK

Rated Current	In	A	25	32	40
Busbar Code			24	35	45
Main Standards	IEC 6143	9-1/6, TS EN	51439-1/6		
Rated Isolation Voltage	Ui	V	690	690	690
Rated Frequency	f	Hz	50	50	50
Protection Degree	IP55				
External Mechanical Impacts (IK Code)*	IK07				
Rated Short-time Withstand Current (0,1s)	I _{cw}	kA _(rms)	2,5	3	4
Rated Peak Withstand Current	I_{pk}	kA	4	5	6,5
MEAN PHASE CONDUCTOR CHARACTERISTICS AT RATED CURRENT	l _n				
Resistance at a conductor temperature of 20 °C	R ₂₀	mW/m	7,643	4,525	3,021
Resistance at an ambient air temperature of 35 °C	R	mW/m	9,185	5,424	3,584
Reactance (Independent from Temperature)	Χ	mW/m	0,974	0,632	0,381
Positive and negative sequence impedances at an ambient air temperature of 35 °C	Z	mW/m	9,237	5,461	3,604
Positive and negative sequence impedances at a conductor temperature of 20 $^{\circ}\text{C}$	Z ₂₀	mW/m	7,705	4,569	3,045
Rated Power Loss at 35 °C		W/m	16,8	16,1	17,3
DC Resistance at a conductor temperature of 20 °C for Phases	R/ort _{Ph}	mW/m	7,116	4,456	3,030
DC Resistance at a conductor temperature of 20 °C for Neutral	R_N	mW/m	7,067	4,384	3,026
DC Resistance at a conductor temperature of 20 °C for PE	R _{PE}	mW/m	3,090	3,090	3,090
DC Resistance at a conductor temperature of 20 °C for CE	R _{CPE}	mW/m	7,118	4,400	3,032
SECTIONS					
L1,L2,L3,N		mm²	2,54	3,98	6,16
CE (5 Conductors - Optional "PE" for DL-DALI)		mm²	2,54	3,98	6,16
PE (Sheet Steel)		mm²	105	105	105
PE (Cu Equivalent-Sheet Steel)		mm²	5,8	5,8	5,8
Busbar Weight (4 Conductors)		kg/m	0,948	1,005	1,070
Busbar Weight (5 Conductors)		kg/m	0,986	1,040	1,134





25-32-40A PLUG-IN BUSBAR SYSTEMS PRODUCT SPECIFICATION (E-Line SL)

- 1- The busbar systems shall be type tested and certified according to IEC 61439-6 by international laboratories. They shall be manufactured in an ISO 9001 and ISO 14001 certified facility.
- 2- The rated insulation voltage of the system shall be 690V.
- 3- The busbar system shall have current ratings between 25A-32A-40A, Conductors shall be electrolytic copper and continuously tin plated along their entire length.
- 4- The conductors in the housing shall be insulated along their whole length an only stripped at the plug-in points to create the contact area.
- 5- The busbar shall have a total of 4 tap-off points on single side only on a standard 3m length. The system should have the possibility to increase the number of tap-off points at the time of ordering. The tap-off points shall have protective covers to maintain the IP55 rating.
- 6- The SL Busbar System has five independent conductors and is produced with outlets on one side only. The number of conductors and the phase structure alternatives are as follows.
 - a) 2 Conductors; L3 / N / PE (Housing)
 - b) 3 Conductors; L3 / N / CE + PE (Housing)
 - c) 4 Conductors; L1 / L2 / L3 / N / PE (Housing)
 - d) 5 Conductors; L1 / L2 / L3 / N / CE + PE (Housing)
- Phase and Neutral conductor sections;
 - for 25A; **2,54** mm²
 - for 32A; **3,98** mm²
 - for 40A; It is produced as 6,16 mm².
- PE (Housing); The body is used as an earth conductor and the equivalent copper cross-sectional area is 5,8 mm².
- CE (Clean Earth); Clean Earth is a separate and independent conductor, the cross-sectional area is
 equivalent to the phase conductors.

The conductors and numbers mentioned above are valid for single side, and the SL Busbar system can be produced in different structures for single side, depending on demand and supply.

- 7- There shall be insulator supports at the plug-in points.
- 8- The joint of the busbar shall be a push-fit joint. Joint contacts shall be silver plated.

 To ensure a secure joint contact there shall be springs on both sides of the joint. Also, the additional cover which prevents extension points from flexing and squeezing, can be easily mounted without screws and without the need for a hand tool.
- 9- SL Busbars are within the IP 55 protection and IK07 mechanical impact resistance class.
- 10- The housing of the busbar shall be manufactured from 0.50mm thick galvanised sheet steel with an option for a RAL 7038 electrostatic oven dried paint finish.
- 11- The contacts on the tap-off plugs shall be silver plated jawed construction which contact the conductors on both sides.
- 12- Standard brackets and fittings suitable for the housing of the busbar shall be those produced by the busbar manufacturer. The suspension brackets can also carry 50 mm cable ducts using additional components.





25-32-40A SL-ACK PLUG-IN BUSBAR SYSTEMS PRODUCT SPECIFICATION (E-Line SL-ACK)

- 1- SL-ACK busbar systems shall be type tested and certified according to IEC 61439-6 by international laboratories. They shall be manufactured in an ISO 9001 and ISO 14001 certified facility.
- 2- The rated insulation voltage of the system shall be 690V.
- 3- The busbar system shall have current ratings between 25A-32A-40A, Conductors shall be electrolytic copper and continuously tin plated along their entire length.
- 4- The conductors in the housing shall be insulated along their whole length an only stripped at the plug-in points to create the contact area.
- 5- The SL-ACK Busbar System is produced in a standard length of 3 m and has a total of 4 plug-in tap-off points on one side. The number of tap-off points can be increased upon special requests.

 Also, on the plug-in tap-off point there is a IP55 protection that has a sealed and hinged protective cover.
- 6- SL-ACK Busbar System; has 5 independent conductors and is produced with a single sided outlet. The number of conductors and the phase structure alternatives are as follows;
 - a) 3 Conductors; L3 / N / $\rm L_{\scriptscriptstyle EMG}$ / PE (Housing) Single Phase Systems
 - b) 5 Conductors; L1 / L2 / L3 / N / $L_{\scriptscriptstyle EMG}$ / PE (Housing) Three Phase Systems
 - Phase and Neutral conductor sections;
 - for 25A; 2,54 mm²
 - for 32A; 3,98 mm²
 - for 40A; It is produced as 6,16 mm².
 - PE (Housing); The body is used as an earth conductor and the equivalent copper cross-sectional area is 5,8 mm².

The conductors and numbers mentioned above are suitable for single sided outlets, and for a single side of the SL-ACK Busbar system depending on need and demand can be produced in different structures .

- 7- The SL-ACK Busbar tap-off plugs are manufactured to be fitted only on one side of the busbar, and the use to prevent connection to the wrong phase. The covers of the tap-off plugs have coloured labels fitted to indicate which phase the luminaires are fed from.
- 8- The SL-ACK busbar tap-off points are plug contacts are addressed, and the SL and DL group busbar tap-off plugs have been disabled for this use .
- 9- There shall be insulated conductor supports at the plug-in points.
- 10- The joint of the SL-ACK Busbar shall be a push-fit joint. Joint contacts shall be silver plated. To ensure a secure joint contact there shall be springs on both sides of the joint. Also, the additional cover which prevents extension points from flexing and squeezing, can be easily mounted without screws and without the need for a hand tool.
- 11- SL-ACK Busbars are within the IP 55 protection and IK07 mechanical impact resistance class.
- 12- The housing of the SL-ACK Busbar shall be manufactured from 0.50mm thick galvanised sheet steel with an option for a RAL 7038 electrostatic oven dried paint finish.
- 13- The contacts on the tap-off plugs shall be silver plated jawed construction which contact the conductors on both sides.
- 14- Busbar system has a standard suspension system suitable and fixing elements and are manufactured by the manufacturer. By attaching additional small pieces to the suspension elements can also carry a 50 mm cable tray.





25-32-40A SL-DALI+ACK PLUG-IN BUSBAR SYSTEMS PRODUCT SPECIFICATION (E-Line SL-DALI+ACK)

- 1- SL-DALI+ACK busbar systems shall be type tested and certified according to IEC 61439-6 by international laboratories. They shall be manufactured in an ISO 9001 and ISO 14001 certified facility.
- 2- The rated insulation voltage of the system shall be 690V.
- 3- The busbar system shall have current ratings between 25A-32A-40A, Conductors shall be electrolytic copper and continuously tin plated along their entire length.
- 4- The conductors in the housing shall be insulated along their whole length an only stripped at the plug-in points to create the contact area.
- 5- The SL-DALI+ACK Busbar System is produced in a standard length of 3 m and has a total of 4 plug-in tap-off points on one side. The number of tap-off points can be increased upon special requests.

 Also, on the plug-in tap-off point there is a IP55 protection that has a sealed and hinged protective cover.
- 6- SL-DALI+ACK Busbar System; has 5 independent conductors and is produced with a single sided outlet. The number of conductors and the phase structure alternatives are as follows;
 - \bullet 5 Conductors; D1 / D2 / L / N / L $_{\!\scriptscriptstyle EMG}$ / PE (Housing) Single Phase System
 - Phase and Neutral conductor sections ;
 - for 25A; 2,54 mm²
 - for 32A; 3,98 mm²
 - for 40A; It is produced as 6,16 mm².
 - PE (Housing); The body is used as an earth conductor and the equivalent copper cross-sectional area is 5.8 mm².

The conductors and numbers mentioned above are suitable for single sided outlets, and for a single side of the SL-DALI+ACK Busbar system depending on need and demand can be produced in different structures.

- 7- Within the SL-DALI + ACK Busbar system, the centralized control of the DALI ballasts used for lighting automation within a scenario allows the lighting fixture energy supplies to be "single phase" and at the same time the provision of the reference voltage of the emergency lighting kits (ACK) in the luminaires is possible with a single "tap-off plug".
- 8- SL-DALI + ACK Busbar tap-off points and plug contacts are addressed, and the SL and DL group busbar tap-off plugs are prevented from being used in this mode.
- 9- There shall be insulated conductor supports at the plug-in points.
- 10- SL-DALI + ACK Busbar tap-off plugs are manufactured to be installed only on one side of the busbars to prevent connection to the wrong phase. The covers of the tap-off plugs have coloured labels fitted to indicate which phase the luminaires are fed from.
- 11- The joint points of the SL-DALI + ACK Busbar System shall be a push-fit joint. Joint contacts shall be silver plated. To ensure a secure joint contact there shall be springs on both sides of the joint. Also, the additional cover which prevents extension points from flexing and squeezing, can be easily mounted without screws and without the need for a hand tool.
- 12- SL-DALI + ACK Busbars are within the IP 55 protection and IK07 mechanical impact resistance class.
- 13- The housing of the SL-DALI + ACK Busbar System shall be manufactured from 0.50mm thick galvanised sheet steel with an option for a RAL 7038 electrostatic oven dried paint finish.
- 14- The contacts on the tap-off plugs shall be silver plated jawed construction which contact the conductors on both sides.
- 15- Busbar system has a standard suspension system suitable and fixing elements and are manufactured by the manufacturer. By attaching additional small pieces to the suspension elements can also carry a 50 mm cable tray.





CE DECLARATION OF CONFORMITY

Product Group E-Line SL Busbar Systems

Manufacturer EAE Elektrik Asansor End. Insaat San. ve Tic. A.S.

Akcaburgaz Mahallesi, 3114. Sokak, No:10 34522 Esenyurt-Istanbul

The objects of the declaration described below is in conformity with the relevant Union harmonisation legislation. This declaration of conformity is issued under the sole responsibility of the manufacturer.

Standard:

EN 61439-6

Low-voltage switchgear and controlgear assemblies - Part 6: Busbar trunking systems

CE - Directive

2014/35/EU "The Low Voltage Directive"

2014/30/EU "Electromagnetic Compatibility (EMC) Directive"

2011/65/EU "Restriction of the use of certain hazardous substances (RoHS)"

Technical Document Preparation Official:

EAE Elektrik Asansör End. İnşaat San. ve Tic. A.Ş. Akçaburgaz Mahallesi, 3114. Sokak, No:10 34522 Esenyurt-İstanbul

Emre GÜRLEYEN

Date

Document Authorized Signatory

20.04.2022

Elif Gamze KAYA OK Deputy General Manager







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TEST CERTIFICATE

Issued to: EAE Elektrik Asansör End.

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No: 10

34510 Esenyurt / Istanbul

Turkey

For the product: Low-voltage busbar trunking system

Trade name: EAE

Type/Model: DL 02

Ratings: Inc 25 A at 50 Hz, U, 690 V, U_{imp} 6 kV, I_{ov} 2,5 kA - 0,1 s

For more details see annex

Manufactured by: EAE Elektrik Asansör End

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No: 10

34510 Esenyurt / Istanbul

Turkey

Subject: Design verification

Requirements: IEC 61439-6: 2012

Clauses: 10.2, 10.3, 10.4, 10.5, 10.9, 10.10, 10.11, 10.101 and

Annex BB, CC, and DD

Remarks: Busbar trunking system consists of feeder box, joint and straight lengths

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2172392.01-INC, dated 4 May 2015.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 4 May 2015 Number: 2172392.100

DEKRA Certification B.V.

F.S. Strikwerda Certification Manager

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TEST CERTIFICATE

Issued to: EAE Elektrik Asansör End.

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No: 10

34510 Esenyurt / Istanbul

Turkey

For the product: Low-voltage busbar trunking system

Trade name: EAE

Type/Model: DL 03

Ratings: Inc 32 A at 50 Hz, U₁ 690 V, U_{mp} 6 kV, I_{ov} 3 kA - 0,1 s

For more details see annex

Manufactured by: EAE Elektrik Asansör End.

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No: 10

34510 Esenyurt / Islanbul

Turkey

Subject: Design verification

Requirements: IEC 61439-6: 2012

Clauses: 10.2, 10.3, 10.4, 10.5, 10.9, 10.10, 10.11, 10.101 and

Annex BB, CC, and DD

Remarks: Busbar trunking system consists of feeder box, joint and straight lengths

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2172392.02-INC, dated 4 May 2015.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 4 May 2015 Number: 2172392.101

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TEST CERTIFICATE

Issued to: EAE Elektrik Asansör End.

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No: 10

34510 Esenyurt / Istanbul

Turkey

For the product: Low-voltage busbar trunking system

Trade name: EAE

Type/Model: DL 04

Ratings: Inc 40 A at 50 Hz, U; 690 V, U_{imp} 6 kV, I_{cw} 4 kA - 0,1 s

For more details see annex

Manufactured by: EAE Elektrik Asansör End

Insaat San. ve Tic. A.S.

Akçaburgaz Mahallesi 119, Sokak No: 10

34510 Esenyurt / Istanbul

Turkey

Subject: Design verification

Requirements: IEC 61439-6: 2012

Clauses: 10.2, 10.3, 10.4, 10.5, 10.9, 10.10, 10.11, 10.101 and

Annex BB, CC, and DD

Remarks: Busbar trunking system consists of feeder box, joint and straight lengths

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2172392.03-INC, dated 4 May 2015.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 4 May 2015 Number: 2172392.102

DEKRA Certification B.V.

F.S. Strikwerda Certification Manager

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Component List Output List Output Outp		Quantity					
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PRODUCT TYPES



BUSBAR ENERGY DISTRIBUTION SYSTEMS

CABLE TRAYS





TROLLEY BUSBAR ENERGY DISTRIBUTION SYSTEMS



INDOOR SOLUTIONS



SUPPORT SYSTEMS

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