

## Magnetic ballasts for fluorescent T8 lamps



15 - 36 W 230 V, 50 Hz

- Meets EN 61347-2-8 & EN60921 requirements
- Low harmonics
- Low power losses
- Correctly trimmed lamp current guaranteed for entire lifetime
- 100 % quality controlled
- Double wire terminals without screws
- Small size
- Long lifetime



Lamp				Ballast						Compensation		
Lamp type	Lamp wattage (W)	No. of lamps	Lamp current (A)	Ballast type	EEl	Dimensions (p.44)	Connection (p.44)	Net weight (kg)	Inductive $\lambda$	Temp. rise $\Delta t$ (°C)	Parallel Ck 230/250V $\pm 10\%$ ( $\mu F$ )	Mains current (A)
T8	15	1	0.31	L 15 TL3	B1	3	1,2	0.76	0.31	40/70	4.0	0.12
	15	1	0.31	L 15 A-P	B2	1	1,2	0.55	0.31	50/95	4.0	0.12
	15	1	0.31	L 15 A	B2	1	1,2	0.60	0.35	55/80	4.0	0.12
	15	2	0.31	L 30 TL2	B1	3	4	0.82	0.45	30/70	4.5	0.21
	15	2	0.31	L 30 A	B2	1	4	0.61	0.50	55/110	4.5	0.20
	15	2	0.31	L 30 A-P	B2	1	4	0.56	0.50	50/125	4.5	0.21
	16	1	0.20	L 16 DL	B1	6	1,2	0.32	0.43	60/150	2.0	0.11
	16	1	0.20	L 16 D	B2	6	1,2	0.32	0.46	65/150	2.0	0.11
	18	1	0.37	L 18 TL2	B1	3	1,2	0.83	0.30	35/60	4.5	0.14
	18	1	0.37	L 18 TL3	B1	3	1,2	0.76	0.30	40/70	4.5	0.14
	18	1	0.37	L 18 TL4	B2	3	1,2	0.65	0.30	45/80	4.5	0.14
	18	1	0.37	L 18 A-T	B2	1	1,2	0.57	0.32	50/95	4.5	0.14
	18	1	0.37	L 18 A-K	B2	1	1,2	0.61	0.32	50/95	4.5	0.14
	18	1	0.37	L 20 A-P <sup>1)</sup>	C	1	1,2	0.56	0.32	55/95	4.5	0.14
	18	1	0.37	L 18 A-L <sup>1)</sup>	C	1	1,2	0.51	0.35	65/90	4.5	0.14
	18	2	0.37	L 36 TL2	B1	3	4	0.83	0.45	35/90	4.5	0.23
	18	2	0.37	L 36 TL3	B1	3	4	0.78	0.45	40/90	4.5	0.23
	18	2	0.37	L 36 TL4	B2	3	4	0.65	0.45	45/110	4.5	0.23
	18	2	0.37	L 36 A-K	B2	1	4	0.61	0.50	50/145	4.5	0.23
	18	2	0.37	L 36 A-TK	B2	1	4	0.57	0.50	50/140	4.5	0.23
	18	2	0.37	L 36 A-T	B2	1	4	0.57	0.50	50/155	4.5	0.23
	18	2	0.37	L 2x18 A-T	B1	1	4	0.56	0.55	55/155	4.5	0.23
	18	2	0.37	L 40 A-C <sup>1)</sup>	C	1	4	0.53	0.53	55/160	4.5	0.23
	18	2	0.37	L 2x18 A-L	B2	1	4	0.51	0.55	65 / -	4.5	0.23
	18	2	0.37	L 40 A-L <sup>1)</sup>	D	1	4	0.51	0.55	65/160	4.5	0.23
	25	1	0.29	L 15 TL3	B1	3	1,2	0.76	0.46	35/70	3.5	0.15
	25	1	0.29	L 15 A	B2	1	1,2	0.60	0.50	40/80	3.5	0.15
	25	1	0.29	L 15 A-P	B2	1	1,2	0.55	0.46	40/95	3.5	0.15
	30	1	0.365	L 30 TL2	B1	3	1,2	0.82	0.45	30/70	4.5	0.18
	30	1	0.365	L 30 A	B2	1	1,2	0.61	0.45	55/110	4.5	0.19
	30	1	0.365	L 30 A-P	B2	1	1,2	0.56	0.45	50/125	4.5	0.18
	36	1	0.43	L 36 TL2	B1	3	1,2	0.83	0.43	35/90	4.5	0.23
	36	1	0.43	L 36 TL3	B1	3	1,2	0.78	0.43	40/90	4.5	0.23
	36	1	0.43	L 36 TL4	B2	3	1,2	0.65	0.43	45/110	4.5	0.23
	36	1	0.43	L 36 A-K	B2	1	1,2	0.61	0.45	50/145	4.5	0.23
	36	1	0.43	L 36 A-TK	B2	1	1,2	0.57	0.45	50/140	4.5	0.23
	36	1	0.43	L 36 A-T	B2	1	1,2	0.57	0.45	50/155	4.5	0.23
	36	1	0.37	L 40 A-C <sup>1)</sup>	C	1	1,2	0.53	0.50	55/160	4.5	0.23
	36	1	0.43	L 40 A-L <sup>1)</sup>	D	1	1,2	0.51	0.50	65/160	4.5	0.23

**Note:** See page 44 for connection diagrams, dimensions and delivery information.

1) Not available for European Union market

2) Lamps excluded from the CELMA EEl directive do not have an EEl classification


## Magnetic ballasts for fluorescent T8 lamps



38 - 58 W 230 V, 50 Hz

- Meets EN 61347-2-8 & EN60921 requirements
- Low harmonics
- Low power losses
- Correctly trimmed lamp current guaranteed for entire lifetime
- 100 % quality controlled
- Double wire terminals without screws
- Small size
- Long lifetime



Lamp				Ballast							Compensation	
Lamp type	Lamp wattage	No. of lamps	Lamp current	Ballast type	EEL	Dimensions	Connec- tion	Net weight	Inductive	Temp. rise	ParallelCk 230/250V ±10 %	Mains current
	(W)		(A)			(p.44)	(p.44)	(kg)	$\lambda$	$\Delta t$ (°C)	( $\mu$ F)	(A)
	38	1	0.43	L 36 TL2	B1	3	1,2	0.83	0.45	35/90	4.5	0.24
	38	1	0.43	L 36 TL3	B1	3	1,2	0.78	0.45	40/90	4.5	0.24
	38	1	0.43	L 36 TL4	B2	3	1,2	0.65	0.45	45/110	4.5	0.24
	38	1	0.43	L 36 A-TK	B2	1	1,2	0.57	0.50	50/140	4.5	0.24
	38	1	0.43	L 36 A-K	B2	1	1,2	0.61	0.48	50/145	4.5	0.24
	38	1	0.43	L 36 A-T	B2	1	1,2	0.57	0.45	50/155	4.5	0.24
	38	1	0.37	L 40 A-C <sup>1)</sup>	C	1	1,2	0.53	0.50	55/160	4.5	0.24
	38	1	0.43	L 40 A-L <sup>1)</sup>	D	1	1,2	0.51	0.48	65/160	4.5	0.24
	58	1	0.67	L 58 TL2	B1	4	1,2	1.36	0.45	35/95	7.0	0.34
	58	1	0.67	L 58 TL3	B1	4	1,2	1.30	0.45	40/95	7.0	0.34
	58	1	0.67	L 58 TL4-220mm	B2	4	1,2	1.09	0.45	40/110	7.0	0.34
	58	1	0.67	L 58 TL4	B2	5	1,2	1.06	0.45	40/110	7.0	0.34
	58	1	0.67	L 58 A-S	B2	2	1,2	1.00	0.48	45/130	7.0	0.34
	58	1	0.67	L 58 A-K	B2	2	1,2	0.92	0.48	45/135	7.0	0.34
	58	1	0.67	L 58 A-TK	B2	2	1,2	0.88	0.48	50/140	7.0	0.34
	58	1	0.67	L 58 A-T	B2	2	1,2	0.88	0.48	50/145	7.0	0.34
	58	1	0.67	L 65 A-P <sup>1)</sup>	C	2	1,2	0.87	0.50	55/145	7.0	0.34

**Note:** See page 44 for connection diagrams, dimensions and delivery information.

1) Not available for European Union market

## Magnetic ballasts for fluorescent T8 lamps



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- Low harmonics
- Low power losses
- Correctly trimmed lamp current guaranteed for entire lifetime
- 100 % quality controlled
- Double wire terminals without screws
- Small size
- Long lifetime



Lamp				Ballast							Compensation	
Lamp type	Lamp wattage (W)	No. of lamps	Lamp current (A)	Ballast type	EEL	Dimensions (p.44)	Connection (p.44)	Net weight (kg)	Inductive $\lambda$	Temp. rise $\Delta t$ (°C)	Parallel Ck 230/250V $\pm 10\%$ ( $\mu F$ )	Mains current (A)
	15	1	0.31	L 15 A	B2	1	1,2	0.60	0.35	55/80	4.0	0.11
	15	2	0.31	L 30 A-P	B2	1	4	0.56	0.45	55/125	4.0	0.17
	15	2	0.31	L 30 A	B2	1	4	0.61	0.45	55/125	4.0	0.17
	16	1	0.2	L 16 D	B2	6	2	0.32	0.45	65/160	2.0	0.10
	18	1	0.37	L 18 TL4	B2	3	1,2	0.65	0.29	45/80	4.0	0.14
	18	1	0.37	L 18 A-K	B2	1	1,2	0.61	0.32	55/90	4.0	0.13
	18	1	0.37	L 20 A-P <sup>3)</sup>	C	1	1,2	0.56	0.35	60/90	4.0	0.13
	18	1	0.37	L 18 A-L <sup>3)</sup>	C	1	1,2	0.51	0.33	65/100	4.0	0.13
	18	2	0.37	L 36 TL2	B1	3	4	0.83	0.44	35/95	4.0	0.22
	18	2	0.37	L 36 A-K	B2	1	4	0.61	0.50	55/155	4.0	0.22
	18	2	0.37	L 36 A-T	B2	1	4	0.57	0.52	55/155	4.0	0.22
	18	2	0.37	L 2x18 A-L	B2	1	4	0.51	0.52	65/ -	4.0	0.22
	18	2	0.37	L 40 A-P <sup>3)</sup>	C	1	4	0.56	0.53	70/160	4.0	0.22
	25	1	0.29	L 15 A	B2	1	1,2	0.60	0.45	55/90	3.0	0.14
	30	1	0.365	L 30 A	B2	1	1,2	0.61	0.45	55/125	4.0	0.17
	30	1	0.365	L 30 A-P	B2	1	1,2	0.56	0.45	55/125	4.0	0.17
	36	1	0.43	L 36 TL2	B1	3	1,2	0.83	0.42	35/95	4.5	0.22
	36	1	0.43	L 36 A-K	B2	1	1,2	0.61	0.45	55/155	4.5	0.22
	36	1	0.43	L 36 A-T	B2	1	1,2	0.57	0.47	55/155	4.5	0.22
	36	1	0.43	L 40 A-P <sup>3)</sup>	C	1	1,2	0.56	0.50	70/160	4.5	0.22
	38	1	0.43	L 36 TL2	B1	3	1,2	0.83	0.44	35/95	4.0	0.22
	38	1	0.43	L 36 A-K	B2	1	1,2	0.61	0.45	55/155	4.0	0.23
	38	1	0.43	L 36 A-T	B2	1	1,2	0.57	0.49	55/155	4.0	0.23
	38	1	0.43	L 40 A-P <sup>3)</sup>	C	1	1,2	0.56	0.52	70/160	4.0	0.23
	58	1	0.67	L 58 TL2	B1	4	1,2	1.36	0.42	35/95	7.0	0.32
58	1	0.67	L 58 A-K	B2	2	1,2	0.92	0.48	50/145	7.0	0.32	
58	1	0.67	L 58 A-T	B2	2	1,2	0.88	0.48	55/145	7.0	0.32	
58	1	0.67	L 65 A-P <sup>3)</sup>	C	2	1,2	0.88	0.50	60/145	7.0	0.32	
70	1	0.70	L 75 A-S	B2	2	1,2	1.00	0.51	60	6.0	0.41	
70	1	0.70	L 70 TL4	B2	5	1,2	1.09	0.50	45	6.0	0.40	
100	1	0.96	L100 TE61	- <sup>4)</sup>	4	1,2	1.28	0.52	60/145	10.0	0.55	
125	1	0.94	L100 TE61	- <sup>4)</sup>	4	3	1.32	0.62c <sup>2)</sup>	60/145	- <sup>1)</sup>	-	

**Note:** See page 44 for connection diagrams, dimensions and delivery information.

1) Essential: Series capacitor 7.2  $\mu F \pm 4\%$  440 V

2) Capacitive

3) Not available for European Union market


4) Lamps excluded from the CELMA EEL directive do not have an EEL classification

## Magnetic ballasts for fluorescent T8 lamps



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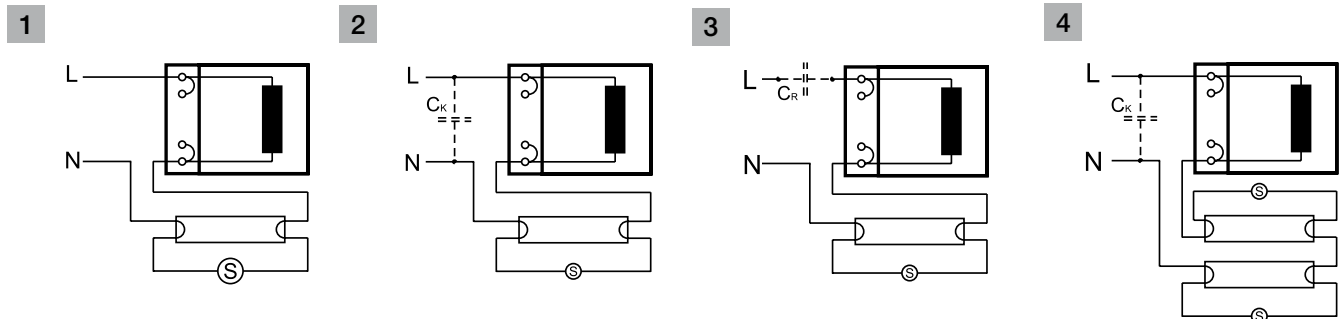
Lamp				Ballast							Compensation	
Lamp type	Lamp wattage	No. of lamps	Lamp current	Ballast type	EEL	Dimensions	Connection	Net weight	Inductive	Temp. rise	Parallel Ck 230/250V ±10 %	Mains current
	(W)		(A)			(p.44)	(p.44)	(kg)	$\lambda$	$\Delta t$ (°C)	( $\mu$ F)	(A)
	18	1	0.37	L 18 A-L <sup>1)</sup>	C	1	1,2	0.51	0.35	65/90	4.5	0.16
	18	2	0.37	L 40 A-C <sup>1)</sup>	C	1	4	0.52	0.53	55/150	4.5	0.24
	18	2	0.37	L 40 A-L <sup>1)</sup>	C	1	4	0.51	0.55	65/160	4.5	0.24
	25	1	0.29	L 15 A-P	B2	1	1,2	0.55	0.50	50/85	3.5	0.15
	30	1	0.365	L 30 A-P	B2	1	1,2	0.56	0.50	45/110	4.5	0.21
	36	1	0.43	L 40 A-C <sup>1)</sup>	C	1	1,2	0.52	0.50	55/150	4.5	0.24
	36	1	0.43	L 40 A-L <sup>1)</sup>	D	1	1,2	0.51	0.50	65/160	4.5	0.24
	38	1	0.43	L 40 A-L <sup>1)</sup>	D	1	1,2	0.51	0.49	65/160	4.5	0.24
	58	1	0.67	L 65 A-P <sup>1)</sup>	C	2	1,2	0.88	0.50	55/145	7.0	0.35

**Note:** See page 44 for connection diagrams, dimensions and delivery information

1) Not available for European Union market

# Connection diagrams

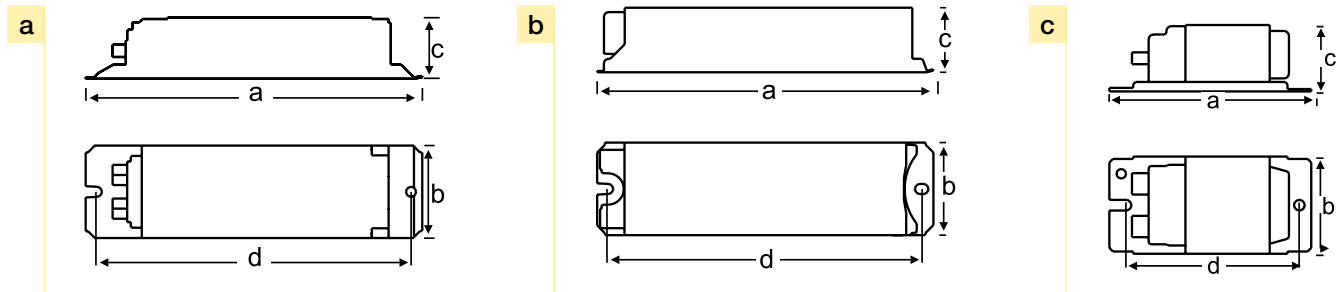
## L-A... / L-T... / L-D



4

## Dimensions

No.	1	2	3	4	5	6
Drawing	A	A	B	B	B	C
Length 'a' (mm)	150	190	150	230	190	85
Width 'b' (mm)	42	42	42	42	42	41.5
Height 'c' (mm)	28	28	28.8	28.8	28.8	28
'd' (mm)	140	180	140	220	180	73



## Delivery information

Delivery information									
Ballast	Unit package			Transportation package					
	Minimum delivery amount	Plastic binding strip	Carton box	Eur pallet 1200 x 820 (pcs.)	One-way pallet			Pallet weight (kg)	Pallet height (cm)
					1080 x 770 (pcs.)	730 x 650 (pcs.)	1120 x 730 (pcs.)		
L 18 - 36TL	10	X		1250	1400	840	-	720-1190	53
L...TS / TLD, L 21TL	10	X		2100	1500	-	-	1010-1159	63
L 42 - 100 T/TL/TE	10	X		750	750	-	-	1080	45
L 15 - 40 A...	10	X		2000	2000	960	-	A/AK 602-1256	68
L 58. - 85 A...	10	X		1000				AP/AT 545-1135	68
L...D / DL	30		X	1200	1200	720	-	720-1215	58
				1800	-	-	1800	612	40