



HF

Electronic Ballasts

Issue I

Bernlite

Limited

Bernlite

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Bernlite have been accredited ISO 9001

TL5 HF ELECTRONIC BALLASTS



Product Reference			Lamp		Size in mm				Terminals
			Watts	Type	L	W	H	F.C.	
TRIDONIC ATCO 220-240v 50/60Hz HIGH FREQUENCY TL5 FIXED OUTPUT									
PC 1/14/21/28/35	T5 PRO LP	22087725	1x14 1x21 1x28 1x35	TL5	280	30	21	270	4
PC 1/24	T5 PRO LP	22087891	1x24	TL5	280	30	21	270	4
PC 1/39	T5 PRO LP	22087908	1x39	TL5	280	30	21	270	4
PC 1/49	T5 PRO LP	22087917	1x49	TL5	280	30	21	270	4
PC 1/54	T5 PRO LP	22087923	1x54	TL5	280	30	21	270	4
PC 1/80	T5 PRO LP	22087618	1x80	TL5	360	30	21	350	4
PC 2/14/21/28/35	T5 PRO LP	22087731	2x14 2x21 2x28 2x35	TL5	360	30	21	350	8
PC 2/24	T5 PRO LP	22087939	2x24	TL5	360	30	21	350	8
PC 2/39	T5 PRO LP	22087630	2x39	TL5	360	30	21	350	8
PC 2/49	T5 PRO LP	22087646	2x49	TL5	360	30	21	350	8
PC 2/54	T5 PRO LP	22087541	2x54/55	TL5 TC-L	360	30	21	350	8
PC 2/80	T5 PRO LP	22088109	2x80	TL5	425	30	21	415	8
PC 3/14	T5 PRO LP	22088962	3x14	TL5	360	30	21	350	8
PC 4/14	T5 PRO LP	22088978	4x14	TL5	360	30	21	350	12
PHILIPS 220-240v 50/60Hz HIGH FREQUENCY TL5 FIXED OUTPUT									
HFP 1x14-35 TL5	E11	Multi Single	1x14 1x21 1x28 1x35	TL5	360	30	21	350	4
HFP 124-139 TL5	E11		1x24/39	TL5	360	30	21	350	4
HFP 149 TL5	E11		1x49	TL5	360	30	21	350	4
HFP 154 TL5	E11		1x54	TL5	360	30	21	350	4
HFP 180 TL5	E11		1x80	TL5	360	30	21	350	4
HFP 2x14-35 TL5	E11	Multi Twin	2x14 2x21 2x28 2x35	TL5	360	30	21	350	8
HFP 224-239 TL5	E11		2x24/39	TL5	360	30	21	350	6
HFP 249 TL5	E11		2x49	TL5	360	30	21	350	6
HFP 254 TL5	E11		2x54	TL5	360	30	21	350	6
HFP 280 TL5	E11		2x80	TL5	425	30	21	415	6
HFP 3414 TL5	E11		3/4x14	TL5	360	30	21	350	8/10
HFP 3424 TL5	E11		3/4x24	TL5	360	30	21	350	8/10
OSRAM 220-240v 50/60Hz HIGH FREQUENCY TL5 FIXED OUTPUT									
QTP5114	Single Multi	QTP5 1x14-35	1x14 1x21 1x28 1x35	TL5	360	30	21	350	4
QTP5124		QTP5 1x24/39	1x24/39	TL5	360	30	21	350	4
QTP5149		QTP5 1x49	1x49	TL5	360	30	21	350	4
QTP5154		QTP5 1x54	1x54	TL5	360	30	21	350	4
QTP5180		QTP5 1x80	1x80	TL5	360	30	21	350	4

TL5 HF ELECTRONIC BALLASTS



Product Reference		Lamp		Size in mm				Terminals	
		Watts	Type	L	W	H	F.C.		
OSRAM 220-240v 50/60Hz HIGH FREQUENCY TL5 FIXED OUTPUT									
QTP5214	Twin Multi	QTP5 2x14-35	1x14 1x21 1x28 1x35	TL5	423	30	21	415	7
QTP5224		QTP5 2x24/39	2x24/39	TL5	423	30	21	415	7
QTP5249		QTP5 2x49	2x49	TL5	423	30	21	415	7
QTP5254		QTP5 2x54	2x54	TL5	423	30	21	415	7
QQ280CF		QT-FQ 2x80	2x80	TL5	423	30	21	415	6
QFH314		QT-FH 3x14	3x14	TL5	423	40	30	415	8
QFH414		QT-FH 4x14	4x14	TL5	423	40	30	415	10
Helvar 220-240v 50/60Hz HIGH FREQUENCY TL5 FIXED OUTPUT									
EL 1x14-35s			1x14 1x21 1x28 1x35	TL5	280	30	21	270	4
EL 1x24s			1x24	TL5	280	30	21	270	4
EL 1x39/36s			1x39/36	TL5/TC-L	280	30	21	270	4
EL 1x49s			1x49	TL5	280	30	21	270	4
EL 1x54s			1x54	TL5	280	30	21	270	4
EL 1x80s			1x80	TL5	280	30	21	270	4
EL 2x14-35s			2x14 2x21 2x28 2x35	TL5	360	30	21	350	7
EL 2x24s			2x24	TL5	360	30	21	350	7
EL 2x39/36s			2x39/36	TL5/TC-L	360	30	21	350	7
EL 2x49s			2x49	TL5	360	30	21	350	7
EL 2x54s			2x54	TL5	360	30	21	350	7
EL 3/4x14s			3/4x14	TL5	360	30	21	350	8/10
HÜCO 220-240v 50/60Hz HIGH FREQUENCY TL5 FIXED OUTPUT									
09 7204	Multi Single		1x14 1x21 1x28 1x35	TL5	280	30	21	270	4
09 7206			1x24/39	TL5	280	30	21	270	4
09 7207			1x49	TL5	280	30	21	270	4
09 7208			1x54	TL5	280	30	21	270	4
09 7209			1x80	TL5	280	30	21	270	4
09 7214	Multi Twin		2x14 2x21 2x28 2x35	TL5	360	30	21	350	7
09 7216			2x24/39	TL5	360	30	21	350	7
09 7217			2x49	TL5	360	30	21	350	7
09 7218			2x54	TL5	360	30	21	350	7
09 7381			3/4x14	TL5	280	39	21	270	8/10
09 7161			3x24	TL5	280	39	21	270	8

TL5 HF ELECTRONIC BALLASTS



Product Reference			Lamp		Size in mm				Terminals
			Watts	Type	L	W	H	F.C.	
VSS VOSSLÖH SCHWABE 220-240v 50/60Hz HIGH FREQUENCY TL5 FIXED OUTPUT									
ELXc 135.856	188093	Multi	1x14	TL5	359	30	21	350	4
			1x21						
			1x28						
			1x35						
			1x24/39						
ELXc 140.862	188140	Multi	1x49	TL5	359	30	21	350	4
ELXc 149.858	188095		1x54						
ELXc 154.864	188142		1x80						
ELXc 180.866	188144								
ELXc 235.857	188094	Multi	2x14	TL5	359	30	21	350	7
			2x21						
			2x28						
			2x35						
			2x24/39						
ELXc 240.863	188141	Multi	2x49	TL5	359	30	21	350	7
ELXc 249.859	188139		2x54						
ELXc 254.865	188143		2x80						
ELXc 280.538	188233								
ELXc 414.868	188438	Multi	3/4x14	TL5	230	41	28	220	10/12
ELXc 414.380	188117		3/4x14						
ELXc 424.379	188116		3/4x24						

T8 HF ELECTRONIC BALLASTS



Product Reference			Lamp Watts	Lamp Type	Size in mm				Terminals	
	L	W			H	F.C.				
TRIDONIC ATCO 220-240v 50/60Hz HIGH FREQUENCY T8 FIXED OUTPUT										
PC 1/18	T8	PRO	22716005	1x18	T8	234	40	28	220	4
PC 1/30	T8	PRO	22176077	1x30	T8	234	40	28	220	4
PC 1/36	T8	PRO	22176006	1x36	T8	234	40	28	220	4
PC 1x38	T8	E011	22086191	1x38	T8	234	40	28	220	4
PC 1/58	T8	PRO	22176007	1x58	T8	234	40	28	220	4
PC 1/70	T8	PRO	22088357	1x70	T8	234	40	28	220	4
PC 2/18	T8	PRO	22176008	2x18	T8	234	40	28	220	6
PC 2/30	T8	PRO	22086976	2x30	T8	234	40	28	220	6
PC 2/36	T8	PRO	22176009	2x36	T8	234	40	28	220	6
PC 2x38	T8	E011	22086201	2x38	T8	234	40	28	220	6
PC 2/58	T8	PRO	22176010	2x58	T8	234	40	28	220	6
PC 2/70	T8	PRO	22088341	2x70	T8	360	40	28	350	6
PC 3/18	T8	PRO	22088146	3x18	T8	234	40	28	220	8
PC 3/36	T8	PRO	22176075	3x36	T8	360	40	28	350	8
PC 4/18	T8	PRO	22088152	4x18	T8	234	40	28	220	10
PC 4x36	T8	GM001	89818848	4x36	T8	424	42	28	414	16
PHILIPS 220-240v 50/60Hz HIGH FREQUENCY T8 FIXED OUTPUT										
HFP 118	TLD	E11		1x18	T8	280	30	28	265	4
HFP 136	TLD	E11		1x36	T8	280	30	28	265	4
HFP 158	TLD	E11		1x58	T8	280	30	28	265	4
HFP 170	TLD	E11		1x70	T8	280	30	28	265	4
HFP 218	TLD	E11		2x18	T8	280	30	28	265	6
HFP 236	TLD	E11		2x36	T8	280	30	28	265	6
HFP 258	TLD	E11		2x58	T8	280	30	28	265	6
HFP 270	TLD	E11		2x70	T8	280	30	28	265	6
HFP 3418	TLD	E11		3/4x18	T8	280	39	28	265	8/10
OSRAM 220-240v 50/60Hz HIGH FREQUENCY T8 FIXED OUTPUT										
QTP8 118				1x18	T8	360	30	30	350	4
QTP8 136				1x36	T8	360	30	30	350	4
QTP8 158				1x58	T8	360	30	30	350	4
QT8 170				1x70	T8	360	30	30	350	4
QTP8 218				2x18	T8	423	30	30	415	7
QTP8 236				2x36	T8	423	30	30	415	7
QTP8 258				2x58	T8	423	30	30	415	7
QT8 270				2x70	T8	423	30	30	415	7
QTP8 348				3/4x18	T8	423	40	30	415	9/11


T8 HF ELECTRONIC BALLASTS



Product Reference		Lamp		Size in mm				Terminals
		Watts	Type	L	W	H	F.C.	
Helvar 220-240v 50/60Hz HIGH FREQUENCY T8 FIXED OUTPUT								
EL 1x18 HF		1x18	T8	280	30	28	270	4
EL 1x36 HF		1x36	T8	280	30	28	270	4
EL 1x58 HF		1x58	T8	280	30	28	270	4
EL 1x18 s		1x18	T8	280	30	21	270	4
EL 1x36 s		1x36	T8	280	30	28	270	4
EL 1x58 s		1x58	T8	280	30	28	270	4
EL 1x70 s		1x70	T8	280	30	28	270	4
EL 2x18 HF		2x18	T8	360	30	28	350	6
EL 2x36 HF		2x36	T8	360	30	28	350	6
EL 2x58 HF		2x58	T8	360	30	28	350	6
EL 2x18 s		2x18	T8	360	30	21	350	7
EL 2x36 s		2x36	T8	360	30	21	350	7
EL 2x58 s		2x58	T8	360	30	21	350	7
EL 2x70 s		2x70	T8	360	30	21	350	7
EL 3/4x18s		3/4x18	T8	360	30	21	350	9/11
Hüco 220240v 50/60Hz HIGH FREQUENCY T8 FIXED OUTPUT								
09 7113		1x18	T8	280	30	21	270	4
09 7114		1x36	T8	280	30	21	270	4
09 7115		1x58	T8	280	30	21	270	4
09 7123		2x18	T8	280	30	21	270	6
09 7124		2x36	T8	280	30	21	270	6
09 7125		2x58	T8	280	30	21	270	6
09 7161		3/4x18	T8	280	39	21	270	8/10
MagneTek 220-240v 50/60Hz HIGH FREQUENCY T8 FIXED OUTPUT								
BBT/UWS 118-W1	BE 118	1x18	T8/TC-L	230	40	28	220	4
BBT/UWS 136-W1	BE 136	1x36	T8/TC-L	230	40	28	220	4
BBT/UWS 158-W1	BE 158	1x58/55	T8/TC-L	230	40	28	220	4
BBT/UWS 170-WS		1x70	T8	330	40	30	320	4
BBT/UWS 218-W1	BE 236-2	2x18	T8/TC-L	230	40	28	220	6
BBT/UWS 236-W1	BE 236-2	2x36	T8/TC-L	230	40	28	220	6
BBT/UWS 258-W1	BE 258-2	2x58/55	T8/TC-L	230	40	28	220	6
BBT/UWS 270-WS		2x70	T8	330	40	30	320	6
BBT/UWS 318-W1	BE 318	3x18	T8/TC-L	230	40	28	220	8
BBT/UWS 336-WS	BE 336	3x36	T8/TC-L	360	40	28	350	10
BBT/UWS 418-W1	BE 418	4x18	T8/TC-L	230	40	28	220	12
BBT/UWS 436-WS	BE 436	4x36	T8/TC-L	360	40	28	350	13


T8 HF ELECTRONIC BALLASTS



Product Reference		Lamp		Size in mm				Terminals
		Watts	Type	L	W	H	F.C.	
 220-240v 50/60Hz HIGH FREQUENCY T8 FIXED OUTPUT								
ELXc 136.200	188314	1x18/36	T8	359	30	28	350	4
ELXc 158.201	188315	1x58	T8	359	30	28	350	4
ELXc 170.205	188319	1x70	T8	359	30	28	350	4
ELXc 236.202	188316	2x18/36	T8	359	30	28	350	6
ELXc 258.203	188317	2x58	T8	359	30	28	350	6
ELXc 270.206	188320	2x70	T8	359	30	28	350	6
ELXc 418.204	188318	3/4x18	T8	230	41	28	220	10/12
ELXc 424.379	188116	3/4x18	T8	425	40	28	415	10/12

T2 HF ELECTRONIC BALLASTS



Product Reference		Lamp		Size in mm				Terminals
		Watts	Type	L	W	H	F.C.	
 220-240v 50/60Hz HIGH FREQUENCY T2 FIXED OUTPUT								
QTF6	QT-FM 1x6	1x6	T2	276	32	16	263	4
QTF8	QT-FM 1x8	1x8	T2	276	32	16	263	4
QTF11	QT-FM 1x11	1x11	T2	276	32	16	263	4
QTF13	QT-FM 1x13	1x13	T2	276	32	16	263	4
QTEF68	QT-ECO FM 1x6/8	1x6/8	T2	150	22	22	140	4
QTEF1113	QT-ECO FM 1x11/13	1x11/13	T2	150	22	22	140	4

COMPACT HF ELECTRONIC BALLASTS



Product Reference			Lamp			Size in mm				Terminals	
			Watts	Type	L	W	H	F.C.			
TRIDONIC ATCO 220-240v 50/60Hz HIGH FREQUENCY TC-L FIXED OUTPUT											
PC 1/26/32/42	TCT	PRO	22088329	Square	1x18/24		TC-L/F	103	67	31	4
PC 18/24	TCL	PRO	22176068	Linear	1x18/24		TC-L	234	40	28	220
PC 1/36	TCL	PRO	22088398	Linear	1x36		TC-L	234	40	28	220
PC 1/40	TCL	PRO	22088410	Linear	1x40		TC-L	234	40	28	220
PC 1/55	TCL	PRO	22088432	Linear	1x55		TC-L	234	40	28	220
PC 2/26/32	TCT	PRO	22088943	Square	2x18/24		TC-L/F	123	79	31	6
PC 2x18/24	TCL	PRO	22176069	Linear	2x18		TC-L	234	40	28	220
PC 2/36	TCL	PRO	22088401	Linear	2x36		TC-L	234	40	28	220
PC 2/40	TCL	PRO	22088426	Linear	2x40		TC-L	234	40	28	220
PC 2/55	TCL	PRO	22088448	Linear	2x55		TC-L	360	40	28	350
TRIDONIC ATCO 220-240v 50/60Hz HIGH FREQUENCY COMPACT FIXED OUTPUT											
PC 1/9/11	TCS	PRO	22176027	Square	1x9/11		FSD - TC-SE	103	67	30	4
PC 1/10/13	TCD	PRO	22088899	Square	1x10/13		FSQ - TC-DE/TE	103	67	30	4
PC 1/18	TCD	PRO	22088906	Square	1x18		FSQ - TC-DE/TE	103	67	30	4
PC 1/26/32/42	TCT	PRO	22088329	Square	1x26/32/42		FSM - TC-DE/TE	103	67	30	4
PC 1/57/70	TCT	PRO	22088915	Square	1x57/70		FSM - TC-TE	123	79	30	4
PC 2/9/11	TCS	PRO	22176028	Square	2x9/11		FSD - TC-SE	123	79	30	6
PC 2/10/13	TCD	PRO	22088921	Square	2x10/13		FSQ - TC-DE/TE	123	79	30	6
PC 2/18	TCD	PRO	22088937	Square	2x18		FSQ - TC-DE/TE	123	79	30	6
PC 2/26/32	TCT	PRO	22088943	Square	2x26/32		FSM - TC-DE/TE	123	79	30	6
PC 2/32/42	TCT	PRO	22088959	Square	2x32/42		FSM - TC-TE	123	79	30	6
PC 1x28	DD	PRO	89895964	Linear	1x28		TC-DD	154	40	28	140
PC 1x38	DD	PRO	89895965	Linear	1x38		TC-DD	154	40	28	140
PC 1x55	DD	PRO	89895967	Linear	1x55		TC-DD	154	40	28	140
TRIDONIC ATCO 220-240v 50/60Hz HIGH FREQUENCY COMPACT BASIC FIXED OUTPUT											
PC 1x4-13	BASIC		24138831	Square	1x4/6/8/13		T5 TC-DD	80	40	21	70
PC 1x5-16	BASIC		24138830	Square	1x5/7/9/11 10/13 16		TC-SE TC-DE TC-DD	80	40	21	70
PC 1x18	BASIC		24138829	Square	1x18		TC-DE/TE	80	40	21	70
PC 1x4-13	BASIC sl		24138834	Linear	1x4/6/8/13		T5 TC-DD	145	22	21	136
PC 1x5-16	BASIC sl		24138833	Linear	1x5/7/9/11 10/13 16		TC-SE TC-DE TC-DD	145	22	21	136
PC 1x14-21	BASIC sl		22176001	Linear	1x14/21		TL5	145	22	21	136
PC 1x18	BASIC sl		24138832	Linear	1x18		TC-DE/TE	145	22	21	136
PC 1x18-24	BASIC sl		22176000	Linear	1x24 1x22 18		TL5 T5-C T8	145	22	21	136
PC 1x26	BASIC sl		22176002	Linear	18/24 1x26		TC-L/F TC-DE/TE	145	22	21	136
PHILIPS 220-240v 50/60Hz HIGH FREQUENCY TC-L FIXED OUTPUT											
HFP 118	PLL			Square	1x18		TC-L	103	67	30	4
HFP 124	PLL			Square	1x24		TC-L	103	67	30	4
HFP 118-124	PLL			Square	1x18/24		TC-L	103	67	30	4
HFP 136	PLL	E11		Linear	1x36		TC-L	280	30	28	270
HFP 140	PLL	E11		Linear	1x40		TC-L	280	30	28	270
HFP 155	PLL	E11		Linear	1x55		TC-L	280	30	28	270

COMPACT HF ELECTRONIC BALLASTS



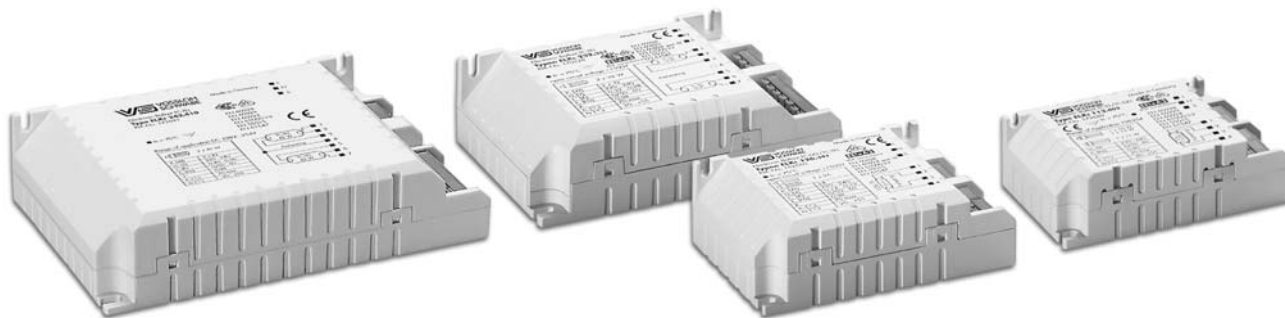
Product Reference				Lamp		Size in mm				Terminals
				Watts	Type	L	W	H	F.C.	
PHILIPS 220-240v 50/60Hz HIGH FREQUENCY TC-L FIXED OUTPUT										
HFP 218	PLL		Square	2x18	TC-L	123	79	33		6
HFP 224	PLL		Square	2x24	TC-L	123	79	33		6
HFP 218-224	PLL		Square	2x18/24	TC-L	123	79	33		6
HFP 236	PLL	E11	Linear	2x36	TC-L	280	30	28	270	6
HFP 240	PLL	E11	Linear	2x40	TC-L	280	30	28	270	6
HFP 255	PLL	E11	Linear	2x55	TC-L	280	30	28	270	6
PHILIPS 220-240v 50/60Hz HIGH FREQUENCY COMPACT FIXED OUTPUT										
HFP 113	PLC		Square	1x13	TC-DE	103	67	30		4
HFP 118	PLC/T		Square	1x18	TC-DE/TE	103	67	30		4
HFP 1x26/32/42	PLC/T	Multi	Square	1x26/32/42	TC-DE/TE	103	67	30		4
HFP 157	PLT		Square	1x57	TC-TE	103	67	30		4
HFP 213	PLC/T		Square	2x13	TC-DE/TE	123	79	33		6
HFP 218	PLC/T		Square	2x18	TC-DE/TE	123	79	33		6
HFP 2x26/32/42	PLC/T	Multi	Square	2x26	TC-DE/TE	123	79	33		6
HFP 257	PLT		Square	2x57	TC-TE	123	79	33		6
PHILIPS 220-240v 50/60Hz HIGH FREQUENCY MATCHBOX FIXED OUTPUT										
HFM 105	LH	Blue	Linear	4 - 5	T5 - TC-SE	144	22	22	133	4
HFM 109	LH	Blue	Linear	6/8 - 7/9/11	T5 - TC-SE	144	22	22	133	4
HFM 114	LH	Blue	Linear	13 - 10/13	T5 - TC-DE	144	22	22	133	4
				14 - 11	TL5 - TC-SE					
HFM 121	LH	Blue	Linear	21	TL5	187	22	22	172	4
HFM 124	LH	Blue	Linear	15/18 - 18/24	T8 - TC-L	187	22	22	172	4
				24 - 22	TL5 TL5-C					
HFM 128	LH	Blue	Linear	28	TL5	187	22	22	172	4
HFM 105	SH	Blue	Square	4 - 5	T5 - TC-SE	80	40	22	70	4
HFM 109	SH	Blue	Square	6/8 - 7/9/11	T5 - TC-SE	80	40	22	70	4
HFM 114	SH	Blue	Square	13 - 10/13	T5 - TC-DE	80	40	22	70	4
				14 - 11	TL5 - TC-SE					
HFM 118	SH	Blue	Square	18	TC-DE/TE	80	40	22	75	4
HFM 124	SH	Blue	Square	15/18 - 18/24	T8 - TC-L	94	40	22	84	4
				24 - 22	TL5 TL5-C					
HFM 128	SH	Blue	Square	28	PL-Q	94	40	22	84	4
Blue = Cold Start		Red = Warm Start								
OSRAM 220-240v 50/60Hz HIGH FREQUENCY TC-L FIXED OUTPUT										
QTPDL118-24		QTP-DL 1x18-24	Linear	1x18/24	TC-L/F	237	30	29	230	4
QTPDL136		QTP-DL 1x36-40	Linear	1x36/40	TC-L/F	239	30	28	229	4
QTPDL155		QTP-DL 1x55	Linear	1x55	TC-L	360	30	21	350	4
QTPDL218-24		QTP-DL 2x18-24	Linear	2x18/24	TC-L/F	239	40	28	229	6
QTPDL236		QTP-DL 2x36-40	Linear	2x36	TC-L/F	280	40	28	270	6
QTPDL255		QTP-DL 2x55	Linear	2x55	TC-L	423	30	21	415	6
OSRAM 220-240v 50/60Hz HIGH FREQUENCY COMPACT FIXED OUTPUT										
QTDE9		QT-D/E 1x9-13		1x9/10/11/13	TC-SE/DE	93	58	29		4
QTDE18		QT-D/E 1x18		1x18	TC-DE/TE	103	67	31		4
QTM1	Multi	QT-M 1x26-42		1x26/32/42	TC-DE/TE	103	67	31		4
				1x18/24/36/40	TC-L/F					
				1x18/36	T8					
				1x22/40	TL5-C					
				1x24/39	TL5					
QTTE57		QT-T/E 1x57		1x57	TC-T/E	123	79	33		4

COMPACT HF ELECTRONIC BALLASTS



Product Reference		Lamp	Watts	Type	Size in mm				Terminals
					L	W	H	F.C.	
OSRAM 220-240v 50/60Hz HIGH FREQUENCY COMPACT FIXED OUTPUT									
QTDE29	Multi	QT-D/E 2x10-13	2x10/11/13	TC-SE/DE	123	79	33		6
QTD218		QT-D/E 2x18	2x18	TC-DE/TE	123	79	33		6
QTM2		QT-M 2x26-32	2x26/32	TC-DE/TE	123	79	33		6
			2x18/24/36	TC-L/F					
			2x18	T8					
			2x22	TL5-C					
	1x22+40	TL5-C							
QTE257		QT-T/E 2x42-57	2x24	TL5					
			2x42/57	TC-T/E	158	102	39		7
Metvar 220-240v 50/60Hz HIGH FREQUENCY TC-L FIXED OUTPUT									
EL1/2x18-42TCs		Square	1x18/24	TC-L/F	103	67	28		4/6
EL1x36/40/18s		Linear	1x18/40	TC-L/F	280	30	21	270	4
EL1x24s		Linear	1x24	TC-L/F	280	30	21	270	4
EL1x39/36s		Linear	1x36	TC-L	280	30	21	270	4
EL1x55s		Linear	1x55	TC-L	280	30	21	270	4
EL1/2x18-42TCs		Square	2x18/24	TC-L/F	103	67	28		4/6
EL2x24s		Linear	2x24	TC-L/F	360	30	21	350	6
EL2x39/36s		Linear	2x36	TC-L	360	30	21	350	7
EL2x36/40s		Linear	2x40	TC-L	360	30	21	350	7
EL2x55s		Linear	2x55	TC-L	360	30	21	350	7
EL1/2x9-13TCs		Square	1or2x9/11	TC-SE	103	67	28		4/6
			1or2x10/13	TC-DE					
EL1/2x18TCs		Square	1or2x18	TC-DE/TE	103	67	28		4/6
EL1/2x18-42TCs		Square	1or2x26	TC-DE/TE	103	67	28		4/6
			1x32/42	TC-TE					
			1x22/40	T5-c					
EL2x32/42TCs		Square	2x32/42	TC-TE	103	67	28		6
			22+40	T5-c					
HÜCO 220-240v 50/60Hz HIGH FREQUENCY TC-L FIXED OUTPUT									
09 7206			1x36/40	TC-L	280	30	21	270	4
09 7039			1x55	TC-L	280	30	21	270	4
09 7209			1x80	TC-L	280	30	21	270	4
09 7216			2x36/40	TC-L	360	30	21	350	7
09 7058			2x55	TC-L	360	30	21	350	7
HÜCO 220-240v 50/60Hz HIGH FREQUENCY COMPACT FIXED OUTPUT									
09 7436			1x28	TC-DD	103	67	30		4
09 7437			1x38	TC-DD	103	67	30		4
09 7438			1x55	TC-DD	123	79	33		4

COMPACT HF ELECTRONIC BALLASTS



Product Reference		Lamp		Size in mm				Terminals
		Watts	Type	L	W	H	F.C.	
VSS VOSSLÖH SCHWABE 220-240v 50/60Hz HIGH FREQUENCY TC-L FIXED OUTPUT								
ELXc 140.862	188140	1x18/24/36/40	TC-L/F	359	30	21	350	4
ELXc 180.866	188144	1x55/80	TC-L	359	30	21	350	4
ELXc 240.863	188141	2x18/24/36/40	TC-L/F	359	30	21	350	6
ELXc 254.865	188143	2x55	TC-L	359	30	21	350	6
ELXc 280.538	188233	2x80	TC-L	359	30	21	350	6
ELXc 113.392	188454	1x5/7/9/11	TC-SE	93	58	29	74	4
		1x10/13	TC-DEL/TEL					
		1x16	TC-DD					
ELXc 118.831	188219	1x18	TC-DEL/TEL	103	67	31	83.5	4
ELXc 142.835	188221	1x26/32/42	TC-DEL/TEL	103	67	31	83.5	4
		1x18/24/36/40	TC-L/F					
ELXc 170.833	188275	1x57/70	TC-TEL	123	79	33	99	4
ELXc 120.838	188238	1x60/85/120	TC-TEL	158	102	38	134	4
ELXc 213.346	188285	2x9/11	TC-SE	123	79	33	99	6
		2x10/13	TC-DEL/TEL					
ELXc 218.832	188212	2x18	TC-DEL/TEL	123	79	33	99	6
ELXc 242.837	188202	2x26/32/42	TC-DEL/TEL	123	79	33	99	6
		2x18/24/36/40	TC-L/F					
ELXc 257.836	188132	2x26/32/42/57	TC-DEL/TEL	158	102	38	134	6
ELXc 120.838	188238	2x60	TC-TEL	158	102	38	134	6
ELXc 142.835	188221	1x38	TC-DD	103	67	31	83.5	4
ELXc 242.837	188202	2x38	TC-DD	123	79	33	99	6
Harvard ENGINEERING PLC 220-240v 50/60Hz HIGH FREQUENCY COMPACT FIXED OUTPUT <small>Electronic Engineers & Manufacturers</small>								
DK13		1x7/9/11	TC-S/E	110	41	29	105	4
		1x10/13	TC-D/E					
		1x10/16	TC-DD					
DK18		1x18	TC-D/E T/E	110	41	29	105	4
DK18L		1x18	TC-L	110	41	29	105	4
		1x18	T8					
DK21		1x21	TC-DD	110	41	29	105	4
DK22-T5		1x21/22	T5	110	41	29	105	4
DK26		1x26	TC-D/E T/E	110	41	29	105	4
		1x24	TC-L					
DK28		1x28	TC-DD	110	41	29	105	4
DK32		1x32	TC-T/E	110	41	29	105	4
DK38		1x38	TC-DD	110	41	29	105	4
		1x36	TC-L/F					
		1x36	T8					
DK213		2x7/9/11	TC-S/E	110	41	29	105	6
		2x10/13	TC-D/E					
		2x10	TC-DD					
		2x6-14	T5					
DK218		2x18	TC-D/E T/EL	110	41	29	105	6
DK218L		2x18	TC-L	110	41	29	105	6
		2x18	T8					
DX142		1x42	TC-T	160	44	30	149	4
DX155		1x55	TC-T	160	44	30	149	4
DX157		1x57	TC-T	160	44	30	149	4
DX226		2x26	TC-D/E T/E	160	44	30	149	6

TRIDONIC DIGITAL DIMMING



Product Reference			Lamp Type	Size in mm				Terminals		
	Watts			L	W	H	F.C.			
TRIDONIC ATCO 240v 50Hz HIGH FREQUENCY T8 ECO DIGITAL DIMMING										
PCA 1/18	T8	22085406	ECO	1x18	T8	360	30	28	350	4
PCA 1/30	T8	22086116	ECO	1x30	T8	360	30	28	350	4
PCA 1/36	T8	22085421	ECO	1x36	T8	360	30	28	350	4
PCA 1/58	T8	22085443	ECO	1x58	T8	360	30	28	350	4
PCA 2/18	T8	22085415	ECO	2x18	T8	360	30	28	350	8
PCA 2/30	T8	22086122	ECO	2x30	T8	360	30	28	350	8
PCA 2/36	T8	22085437	ECO	2x36	T8	360	30	28	350	8
PCA 2/58	T8	22084837	ECO	2x58	T8	360	30	28	350	8
PCA 3/18	T8	22086721	ECO	3x18	T8	360	40	28	350	8
PCA 4/18	T8	22086706	ECO	4x18	T8	360	40	28	350	12
TRIDONIC ATCO 240v 50Hz HIGH FREQUENCY TL5 ECO DIGITAL DIMMING										
PCA 1/14	T5	22089436	ECO Low Profile	1x14	TL5	360	30	21	350	4
PCA 1/21	T5	22089414	ECO Low Profile	1x21	TL5	360	30	21	350	4
PCA 1/28	T5	22089392	ECO Low Profile	1x28	TL5	360	30	21	350	4
PCA 1/35	T5	22089370	ECO Low Profile	1x35	TL5	360	30	21	350	4
PCA 2/14	T5	22089442	ECO Low Profile	2x14	TL5	360	30	21	350	8
PCA 2/21	T5	22089420	ECO Low Profile	2x21	TL5	360	30	21	350	8
PCA 2/28	T5	22089405	ECO Low Profile	2x28	TL5	360	30	21	350	8
PCA 2/35	T5	22089386	ECO Low Profile	2x35	TL5	425	30	21	415	8
PCA 3/14	T5	22088962	ECO Low Profile	3x14	TL5	360	40	21	350	8
PCA 4/14	T5	22088978	ECO Low Profile	4x14	TL5	360	40	21	350	12
PCA 1/24	T5	22089521	ECO Low Profile	1x24	TL5	360	30	21	350	4
PCA 1/39	T5	22089506	ECO Low Profile	1x39	TL5	360	30	21	350	4
PCA 1/49	T5	22089483	ECO Low Profile	1x49	TL5	360	30	21	350	4
PCA 1/54	T5	22089461	ECO Low Profile	1x54	TL5	360	30	21	350	4
PCA 1/80	T5	22089458	ECO Low Profile	1x80	TL5	425	30	21	415	4
PCA 2/24	T5	22089537	ECO Low Profile	2x24	TL5	360	30	21	350	8
PCA 2/39	T5	22089515	ECO Low Profile	2x39	TL5	360	30	21	350	8
PCA 2/49	T5	22089499	ECO Low Profile	2x49	TL5	425	30	21	415	8
PCA 2/54	T5	22089477	ECO Low Profile	2x54	TL5	425	30	21	415	8
PCA 1/22	T5c	22086897	ECO	1x22	TL5-C	123	79	31		4
PCA 1/40	T5c	22086913	ECO	1x40	TL5-C	123	79	31		4
PCA 1/55	T5c	22086935	ECO	1x55	TL5-C	123	79	31		4
TRIDONIC ATCO 240v 50Hz HIGH FREQUENCY COMPACT ECO DIGITAL DIMMING										
PCA 1/18	TCL	22085462	ECO C	1x18	TC-L/F	123	79	31		4
PCA 1/24	TCL	22085484	ECO C	1x24	TC-L/F	123	79	31		4
PCA 1/36	TCL	22085507	ECO	1x36	TC-L/F	360	30	28	350	4
PCA 1/40	TCL	22085522	ECO	1x40	TC-L	360	30	28	350	4
PCA 1/55	TCL	22085544	ECO	1x55	TC-L	360	30	28	350	4
PCA 2/18	TCL	22085478	ECO C	2x18	TC-L/F	123	102	31		8
PCA 2/18	TCL	22086856	ECO	2x18	TC-L	360	30	28	350	8
PCA 2/24	TCL	22085490	ECO C	2x24	TC-L/F	123	102	31		8
PCA 2/24	TCL	22086875	ECO	2x24	TC-L	360	30	28	350	8
PCA 2/36	TCL	22085516	ECO	2x36	TC-L/F	360	30	28	350	8
PCA 2/40	TCL	22085538	ECO	2x40	TC-L	360	30	28	350	8
PCA 2/55	TCL	22085550	ECO	2x55	TC-L	360	30	28	350	8

TRIDONIC DIGITAL DIMMING



Product Reference	Lamp		Size in mm				Terminals	
			Watts	Type	L	W		H
TRIDONIC ATCO 240v 50Hz HIGH FREQUENCY COMPACT ECO DIGITAL DIMMING								
PCA 1/11/13 TCD 22084878	ECO	1x11/13	TC-DE	123	79	31	4	
PCA 1/18 TCD 22084859	ECO	1x18	TC-DE/TE	123	79	31	4	
PCA 1/26 TCD 22084765	ECO	1x26	TC-DE/TE	123	79	31	4	
PCA1/32 TCT 22088644	ECO	1x32	TC-TE	123	79	31	4	
PCA 1/42 TCT 22088685	ECO	1x42	TC-TE	123	79	31	4	
PCA 1/57 TCT 22086957	ECO	1x57	TC-TE	123	79	31	4	
PCA 2/11/13 TCD 22084862	ECO	2x11/13	TC-DE	123	102	31	8	
PCA 2/18 TCD 22084843	ECO	2x18	TC-DE/TE	123	102	31	8	
PCA 2/26 TCD 22084752	ECO	2x26	TC-DE/TE	123	102	31	8	
PCA 2/32 TCT 22088650	ECO	2x32	TC-TE	123	102	31	8	
PCA 2/42 TCT 22088691	ECO	2x42	TC-TE	123	102	31	8	
PCA 1/55 TC-DD 22086642	ECO	1x55	TC-DD	123	102	31	4	
TRIDONIC ATCO 240v 50Hz HIGH FREQUENCY T8 EXCEL DIGITAL DIMMING								
PCA 1/18 T8 22085245	EXCEL one4all	1x18	T8	360	30	28	350	4
PCA 1/30 T8 22086092	EXCEL one4all	1x30	T8	360	30	28	350	4
PCA 1/36 T8 22085264	EXCEL one4all	1x36	T8	360	30	28	350	4
PCA 1/58 T8 22085286	EXCEL one4all	1x58	T8	360	30	28	350	4
PCA 2/18 T8 22085251	EXCEL one4all	2x18	T8	360	30	28	350	8
PCA 2/30 T8 22086107	EXCEL one4all	2x30	T8	360	30	28	350	8
PCA 2/36 T8 22085270	EXCEL one4all	2x36	T8	360	30	28	350	8
PCA 2/58 T8 22084608	EXCEL one4all	2x58	T8	360	30	28	350	8
PCA 3x18 T8 22086715	EXCEL one4all	3x18	T8	360	40	28	350	8
PCA 4x18 T8 22086699	EXCEL one4all	4x18	T8	360	40	28	350	12
TRIDONIC ATCO 240v 50Hz HIGH FREQUENCY TL5 EXCEL DIGITAL DIMMING								
PCA 1/14 T5 22088511	EXCEL one4all Low Profile	1x14	TL5	360	30	21	350	4
PCA 1/21 T5 22088495	EXCEL one4all Low Profile	1x21	TL5	360	30	21	350	4
PCA 1/28 T5 22088473	EXCEL one4all Low Profile	1x28	TL5	360	30	21	350	4
PCA 1/35 T5 22088454	EXCEL one4all Low Profile	1x35	TL5	360	30	21	350	4
PCA 1/24 T5 22088607	EXCEL one4all Low Profile	1x24	TL5	360	30	21	350	4
PCA 1/39 T5 22088580	EXCEL one4all Low Profile	1x39	TL5	360	30	21	350	4
PCA 1/49 T5 22088568	EXCEL one4all Low Profile	1x49	TL5	360	30	21	350	4
PCA 1/54 T5 22088549	EXCEL one4all Low Profile	1x54	TL5	360	30	21	350	4
PCA 1/80 T5 22088533	EXCEL one4all Low Profile	1x80	TL5	425	30	21	415	4
PCA 2/14 T5 22088527	EXCEL one4all Low Profile	2x14	TL5	360	30	21	350	8
PCA 2/21 T5 22088502	EXCEL one4all Low Profile	2x21	TL5	360	30	21	350	8
PCA 2/28 T5 22088489	EXCEL one4all Low Profile	2x28	TL5	360	30	21	350	8
PCA 2/35 T5 22088467	EXCEL one4all Low Profile	2x35	TL5	425	30	21	415	8
PCA 2/24 T5 22088616	EXCEL one4all Low Profile	2x24	TL5	360	30	21	350	8
PCA 2/39 T5 22088596	EXCEL one4all Low Profile	2x39	TL5	360	30	21	350	8
PCA 2/49 T5 22088574	EXCEL one4all Low Profile	2x49	TL5	425	30	21	415	8
PCA 2/54 T5 22088555	EXCEL one4all Low Profile	2x54	TL5	425	30	21	415	8
PCA 3/14 T5 22086658	EXCEL one4all	3x14	TL5	360	40	28	350	8
PCA 4/14 T5 22086677	EXCEL one4all	4x14	TL5	360	40	28	350	12
PCA 22 TL5c 22086881	EXCEL one4all	1x22	TL5-C	123	79	31	4	
PCA 40 TL5c 22086904	EXCEL one4all	1x40	TL5-C	123	79	31	4	
PCA 55 TL5c 22086929	EXCEL one4all	1x55	TL5-C	123	79	31	4	

TRIDONIC DIGITAL DIMMING



Product Reference			Lamp		Size in mm				Terminals	
			Watts	Type	L	W	H	F.C.		
TRIDONIC ATCO 240v 50Hz HIGH FREQUENCY COMPACT EXCEL DIGITAL DIMMING										
PCA 18	TCLc	22085309	EXCEL one4all	1x18	TC-L	123	79	31		4
PCA 24	TCLc	22085324	EXCEL one4all	1x24	TC-L	360	30	28	350	4
PCA 1/36	TCL	22085346	EXCEL one4all	1x36	TC-L	360	30	28	350	4
PCA 1/40	TCL	22085365	EXCEL one4all	1x40	TC-L	360	30	28	350	4
PCA 1/55	TCL	22085387	EXCEL one4all	1x55	TC-L	360	30	28	350	4
PCA 2/18	TCL	22086840	EXCEL one4all	2x18	TC-L	360	30	28	350	8
PCA 2/24	TCL	22086869	EXCEL one4all	2x24	TC-L	360	30	28	350	8
PCA 2/36	TCL	22085352	EXCEL one4all	2x36	TC-L	360	30	28	350	8
PCA 2/40	TCL	22085371	EXCEL one4all	2x40	TC-L	360	30	28	350	8
PCA 2/55	TCL	22085393	EXCEL one4all	2x55	TC-L	360	30	28	350	8
PCA 1/11/13	TCD	22084724	EXCEL one4all	1x11/13	TC-D/E	123	79	31		4
PCA 1/18	TCD	22084709	EXCEL one4all	1x18	TC-D/E	123	79	31		4
PCA 1/26	TCD	22084686	EXCEL one4all	1x26	TC-D/E	123	79	31		4
PCA 1/32	TCT	22088622	EXCEL one4all	1x32	TC-T/E	123	79	31		4
PCA 1/42	TCT	22088663	EXCEL one4all	1x42	TC-T/E	123	79	31		4
PCA 1/57	TCT	22086941	EXCEL one4all	1x57	TC-T/E	123	79	31		4
PCA 1/55	TC-DD	22086636	EXCEL one4all	1x55	TC-DD	123	79	31		4
PC 2x11/13	TCD	22084718	EXCEL one4all	2x11/13	TC-D/E	123	102	31		8
PC 2/18	TCD	22084692	EXCEL one4all	2x18	TC-D/E	123	102	31		8
PC 2/26	TCD	22084670	EXCEL one4all	2x26	TC-D/E	123	102	31		8
PC 2/32	TCT	22088638	EXCEL one4all	2x32	TC-T/E	123	102	31		8
PC 2/42	TCT	22088679	EXCEL one4all	2x42	TC-T/E	123	102	31		8

PHILIPS DIMMING



Product Reference			Lamp		Size in mm				Terminals
			Watts	Type	L	W	H	F.C.	
PHILIPS 240v 50Hz HIGH FREQUENCY T8 FOR ANALOGUE DIMMING									
HFR 118 TLD	E11	1-10V Dimming	1x18	T8	360	30	21	350	4
HFR 136 TLD	E11	1-10V Dimming	1x36	T8	360	30	21	350	4
HFR 158 TLD	E11	1-10V Dimming	1x58	T8	360	30	21	350	4
HFR 218 TLD	E11	1-10V Dimming	2x18	T8	360	30	21	350	7
HFR 236 TLD	E11	1-10V Dimming	2x36	T8	360	30	21	350	7
HFR 258 TLD	E11	1-10V Dimming	2x58	T8	360	30	21	350	7
HFR 3418 TLD	E11	1-10V Dimming	3/4x18	T8	360	40	21	350	8/10
PHILIPS 240v 50Hz HIGH FREQUENCY TL5 FOR ANALOGUE DIMMING									
HFR 114 TL5	E11	1-10V Dimming	1x14	TL5	360	30	21	350	4
HFR 121 TL5	E11	1-10V Dimming	1x21	TL5	360	30	21	350	4
HFR 128-35 TL5	E11	1-10V Dimming	1x28/35	TL5	360	30	21	350	4
HFR 124 TL5	E11	1-10V Dimming	1x24	TL5	360	30	21	350	4
HFR 139 TL5	E11	1-10V Dimming	1x39	TL5	360	30	21	350	4
HFR 149 TL5	E11	1-10V Dimming	1x49	TL5	360	30	21	350	4
HFR 154 TL5	E11	1-10V Dimming	1x54	TL5	360	30	21	350	4
HFR 180 TL5	E11	1-10V Dimming	1x80	TL5	360	30	21	350	4
HFR 214 TL5	E11	1-10V Dimming	2x14	TL5	360	30	21	350	7
HFR 221 TL5	E11	1-10V Dimming	2x21	TL5	360	30	21	350	7
HFR 228-35 TL5	E11	1-10V Dimming	2x28/35	TL5	360	30	21	350	7
HFR 224 TL5	E11	1-10V Dimming	2x24	TL5	360	30	21	350	7
HFR 239 TL5	E11	1-10V Dimming	2x39	TL5	360	30	21	350	7
HFR 249 TL5	E11	1-10V Dimming	2x49	TL5	360	30	21	350	7
HFR 254 TL5	E11	1-10V Dimming	2x54	TL5	360	30	21	350	7
HFR 280 TL5	E11	1-10V Dimming	2x80	TL5	425	30	21	415	7
HFR 3414 TL5	E11	1-10V Dimming	3/4x14	TL5	360	39	21	350	8/10
HFR 3424 TL5	E11	1-10V Dimming	3/4x24	TL5	360	39	21	350	8/10
PHILIPS 240v 50Hz HIGH FREQUENCY COMPACT FOR ANALOGUE DIMMING									
HFR 124 PLL	E11	1-10V Dimming	1x24	TC-L	360	30	21	350	4
HFR 136 PLL	E11	1-10V Dimming	1x36	TC-L	360	30	21	350	4
HFR 140 PLL	E11	1-10V Dimming	1x40	TC-L	360	30	21	350	4
HFR 155 PLL	E11	1-10V Dimming	1x55	TC-L	360	30	21	350	4
HFR 180 PLL	E11	1-10V Dimming	1x80	TC-L	360	30	21	350	4
HFR 224 PLL	E11	1-10V Dimming	2x24	TC-L	360	30	21	350	6
HFR 236 PLL	E11	1-10V Dimming	2x36	TC-L	360	30	21	350	6
HFR 240 PLL	E11	1-10V Dimming	2x40	TC-L	360	30	21	350	6
HFR 255 PLL	E11	1-10V Dimming	2x55	TC-L	360	30	21	350	6
HFR 280 PLL	E11	1-10V Dimming	2x80	TC-L	425	30	21	415	6
HFR 324 PLL	E11	1-10V Dimming	3x24	TC-L	360	39	21	350	8/10
HFR 424 PLL	E11	1-10V Dimming	4x24	TC-L	360	39	21	350	8/10
HFR 118 PLC/T		1-10V Dimming	1x18	TC-DE/TE	123	79	33		4
HFR 126-42 PLC/T		1-10V Dimming	1x26/32/42	TC-DE/TE	123	79	33		4
HFR 157 PLT		1-10V Dimming	1x57	TC-TE	123	79	33		4
HFR 218 PLC/T		1-10V Dimming	2x18	TC-DE/TE	123	79	33		8
HFR 226-42 PLC/T		1-10V Dimming	2x26/32/42	TC-DE/TE	123	79	33		8
HFR 257 PLT		1-10V Dimming	2x57	TC-TE	123	79	33		8

OSRAM DIMMING



Product Reference		Lamp		Size in mm				Terminals
		Watts	Type	L	W	H	F.C.	
OSRAM 240v 50Hz HIGH FREQUENCY T8 and COMPACT FOR DALI DIMMING								
QNDA 118	QTi DALI 1x18 DIM	1x18	T8/TC-L	360	30	21	350	4
QNDA 136	QTi DALI 1x36 DIM	1x36	T8/TC-L	360	30	21	350	4
QNDA 158	QTi DALI 1x58 DIM	1x58	T8	360	30	21	350	4
QNDA 218	QTi DALI 2x18 DIM	2x18	T8/TC-L	423	30	21	415	7
QNDA 236	QTi DALI 2x36 DIM	2x36	T8/TC-L	423	30	21	415	7
QNDA 258	QTi DALI 2x35 DIM	2x58	T8	423	30	21	415	7
QNDA 318	QTi DALI 3x18 DIM	3x18	T8/TC-L	360	40	21	350	10
QNDA 418	QTi DALI 4x18 DIM	4x18	T8/TC-L	360	40	21	350	12
OSRAM 240v 50Hz HIGH FREQUENCY TL5 and COMPACT FOR DALI DIMMING								
QNDA 114	QTi DALI 1x14/24 DIM	1x14HE 1x24HO 1x24DL	TL5 TL5 TC-L	360	30	21	350	4
QNDA 121	QTi DALI 1x21/39 DIM	1x21HE 1x39HO 1x40DL	TL5 TL5 TC-L	360	30	21	350	4
QNDA 128	QTi DALI 1x28/54 DIM	1x28HE 1x54HO 1x55DL	TL5 TL5 TC-L	360	30	21	350	4
QNDA 135	QTi DALI 1x35/49/80 DIM	1X35HE 1x49HO 1x80HO 1x80DL	TL5 TL5 TL5 TC-L	360	30	21	350	4
QNDA 214	QTi DALI 2x14/24 DIM	2x14HE 2x24HO 2x24DL	TL5 TL5 TC-L	423	30	21	415	7
QNDA 221	QTi DALI 2x21/39 DIM	2x21HE 2x39HO 2x40DL	TL5 TL5 TC-L	423	30	21	415	7
QNDA 228	QTi DALI 2x28/54DIM	2x28HE 2x54HO 2x55DL	TL5 TL5 TC-L	423	30	21	415	7
QNDA 235	QTi DALI 2x35/49 DIM	2X35HE 2x49HO 2x80HO 2x80DL	TL5 TL5 TL5 TC-L	423	30	21	415	7
QNDA 314	QTi DALI 3x14/24 DIM	3x14HE 3x24HO 3x24DL	TL5 TL5 TC-L	360	40	21	350	10
QNDA 414	QTi DALI 4x14/24 DIM	4x14HE 4x24HO 4x24DL	TL5 TL5 TC-L	360	40	21	350	12

OSRAM DIMMING



Product Reference		Lamp		Size in mm				Terminals
		Watts	Type	L	W	H	F.C.	
OSRAM QUICKTRONIC INTELLIGENT 240v 50Hz HIGH FREQUENCY T8 and COMPACT ANALOGUE DIMMING								
QN 118D	QTi 1x18 DIM	1x18	T8/TC-L	360	30	21	350	4
QN 136D	QTi 1x36 DIM	1x36	T8/TC-L	360	30	21	350	4
QN 158D	QTi 1x58 DIM	1x58	T8	360	30	21	350	4
QN 218D	QTi 2x18 DIM	2x18	T8/TC-L	423	30	21	415	7
QN 236D	QTi 2x36 DIM	2x36	T8/TC-L	423	30	21	415	7
QN 258D	QTi 2x58 DIM	2x58	T8/TC-L	423	30	21	415	7
QN 318D	QTi 3x18 DIM	3x18	T8/TC-L	360	40	21	350	10
QN 418D	QTi 4x18 DIM	4x18	T8/TC-L	360	40	21	350	12
OSRAM QUICKTRONIC INTELLIGENT 240v 50Hz HIGH FREQUENCY TL5 and COMPACT ANALOGUE DIMMING								
QN 114D	QTi 1x14/24 DIM	1x14HE 1x24HO 1x24DL	TL5 TL5 TC-L	360	30	21	350	4
QN 121D	QTi 1x21/39 DIM	1x21HE 1x39HO 1x40DL	TL5 TL5 TC-L	360	30	21	350	4
QN 128D	QTi 1x28/54 DIM	1x28HE 1x54HO 1x55DL	TL5 TL5 TC-L	360	30	21	350	4
QN 135D	QTi 1x35/49/80 DIM	1x35HE 1x49HO 1x80HO 1x80DL	TL5 TL5 TL5 TC-L	360	30	21	350	4
QN 214D	QTi 2x14/24 DIM	2x14HE 2x24HO 2x24DL	TL5 TL5 TC-L	423	30	21	415	7
QN 221D	QTi 2x21/39 DIM	2x21HE 2x39HO 2x40DL	TL5 TL5 TC-L	423	30	21	415	7
QN 228D	QTi 2x28/54 DIM	2x28HE 2x54HO 2x55DL	TL5 TL5 TC-L	423	30	21	415	7
QN 235D	QTi 2x35/49 DIM	2x35HE 2x49HO 2x80HO 2x80DL	TL5 TL5 TL5 TC-L	423	30	21	415	7
QN 314D	QTi 3x14/24 DIM	3x14HE 3x24HO 3x24DL	TL5 TL5 TC-L	360	40	21	350	10
QN 414D	QTi 4x14/24 DIM	4x14HE 4x24HO 4x24DL	TL5 TL5 TC-L	360	40	21	350	12

OSRAM DIMMING



Product Reference	Lamp		Size in mm				Terminals		
	Watts	Type	L	W	H	F.C.			
OSRAM QUICKTRONIC DE LUXE 240v 50Hz HIGH FREQUENCY T8 and COMPACT ANALOGUE DIMMING									
HF118D	HF 1x18 DIM	1-10v Dimming	1x18	T8	359	30	29	350	4
HF136D	HF 1x36 DIM	1-10v Dimming	1x36	T8 TC-L	359	30	29	350	4
HF158D	HF 1x58 DIM	1-10v Dimming	1x58/55	T8 TC-L	359	30	29	350	4
HF218D	HF 2x18 DIM	1-10v Dimming	2x18	T8	423	30	29	415	7
HF236D	HF 2x36 DIM	1-10v Dimming	2x36	T8 TC-L	423	30	29	415	7
HF258D	HF 2x58 DIM	1-10v Dimming	2x58/55	T8 TC-L	423	30	29	415	7
OSRAM QUICKTRONIC 240v 50Hz HIGH FREQUENCY COMPACT ANALOGUE DIMMING									
QDE18D	QT-T/E 1x18 DIM	1-10v Dimming	1x18	TC-DE/TE	123	79	33		4
QT142D	QT-T/E 1x26-42 DIM	1-10v Dimming	1x26/32/42	TC-DE/TE	123	79	33		4
QT218D	QT-T/E 2x18 DIM	1-10v Dimming	2x18	TC-DE/TE	158	102	38		7
QT242D	QT-TE 2x26-42 DIM	1-10v Dimming	2x26/32/42	TC-DE/TE	158	102	38		7
OSRAM 1...10V LIGHTING CONTROL for QUICKTRONIC ANALOGUE DIMMABLE									
HFM CUP	MANUAL CONTROL	1-10v Dimming	Electronic Potentiometer						

HELVAR DIMMING



Product Reference		Lamp		Size in mm				Terminals
		Watts	Type	L	W	H	F.C.	
Helvar 220-240v 50/60Hz HIGH FREQUENCY TL5 FOR ANALOGUE DIMMING								
EL 1x14 sc	1-10v Dimming	1x14	TL5	360	30	21	350	4
EL 1x21 sc	1-10v Dimming	1x21	TL5	360	30	21	350	4
EL 1x24 sc	1-10v Dimming	1x24	TL5	360	30	21	350	4
EL 1x28 sc	1-10v Dimming	1x28	TL5	360	30	21	350	4
EL 1x35 sc	1-10v Dimming	1x35	TL5	360	30	21	350	4
EL 1x39 sc	1-10v Dimming	1x39	TL5	360	30	21	350	4
EL 1x49 sc	1-10v Dimming	1x49	TL5	360	30	21	350	4
EL 1x54 sc	1-10v Dimming	1x54	TL5	360	30	21	350	4
EL 1x80 sc	1-10v Dimming	1x80	TL5	360	30	21	350	4
EL 2x14 sc	1-10v Dimming	2x14	TL5	430	30	21	420	8
EL 2x21 sc	1-10v Dimming	2x21	TL5	430	30	21	420	8
EL 2x24 sc	1-10v Dimming	2x24	TL5	430	30	21	420	8
EL 2x28 sc	1-10v Dimming	2x28	TL5	430	30	21	420	8
EL 2x35 sc	1-10v Dimming	2x35	TL5	430	30	21	420	8
EL 2x39 sc	1-10v Dimming	2x39	TL5	430	30	21	420	8
EL 2x49 sc	1-10v Dimming	2x49	TL5	430	30	21	420	8
EL 2x54 sc	1-10v Dimming	2x54	TL5	430	30	21	420	8
EL 4x14 sc	1-10v Dimming	4x14	TL5	430	30	21	420	12
Helvar 220-240v 50/60Hz HIGH FREQUENCY T8 FOR ANALOGUE DIMMING								
EL 1x18 sc	1-10v Dimming	1x18	T8	360	30	21	350	4
EL 1x36 sc	1-10v Dimming	1x36	T8	360	30	21	350	4
EL 1x58 sc	1-10v Dimming	1x58	T8	360	30	21	350	4
EL 1x70 sc	1-10v Dimming	1x70	T8	360	30	21	350	4
EL 2x18 sc	1-10v Dimming	2x18	T8	430	30	21	420	8
EL 2x36 sc	1-10v Dimming	2x36	T8	430	30	21	420	8
EL 2x58 sc	1-10v Dimming	2x58	T8	430	30	21	420	8
EL 4x18 sc	1-10v Dimming	4x18	T8	430	30	21	420	11
Helvar 220-240v 50/60Hz HIGH FREQUENCY COMPACT FOR ANALOGUE DIMMING								
EL 1x24 sc	1-10v Dimming	1x24	TC-L/F	360	30	21	350	4
EL 1x36 sc	1-10v Dimming	1x36	TC-L/F	360	30	21	350	4
EL 1x55 sc	1-10v Dimming	1x55	TC-L	360	30	21	350	4
EL 1x80 sc	1-10v Dimming	1x80	TC-L	360	30	21	350	4
EL 2x24 SC	1-10v Dimming	2x24	TC-L/F	430	30	21	420	8
EL 2x36 SC	1-10v Dimming	2x36	TC-L/F	430	30	21	420	8
EL 2x55 SC	1-10v Dimming	2x55	TC-L	430	42	21	420	8
EL 1x18-40 CHFC3	1-10v Dimming	1x18/24	TC-L/F	103	67	30		4
EL 1x13 CHFC3	1-10v Dimming	1x13	TC-DE/TE	103	67	30		4
EL 1x18 CHFC3	1-10v Dimming	1x18	TC-DE/TE	103	67	30		4
EL 1x26-42 CHFC3	1-10v Dimming	1x26/32/42	TC-DE/TE	103	67	30		4
EL 2x18/24 CHFC3	1-10v Dimming	2x18/24	TC-L/F	123	79	33		8
EL 2x13 CHFC3	1-10v Dimming	2x13	TC-DE/TE	123	79	33		8
EL 2x18 CHFC3	1-10v Dimming	2x18	TC-DE/TE	123	79	33		8
EL 2x26 CHFC3	1-10v Dimming	2x26	TC-DE/TE	123	79	33		8
EL 2x26-42 CHFC3	1-10v Dimming	2x26/32/42	TC-DE/TE	123	102	33		8
TK4	HES140200Electronic Potentiometer 2 part Module & Frame Slide Dimmer							

HELVAR DIMMING



Product Reference		Lamp		Size in mm				Terminals
		Watts	Type	L	W	H	F.C.	
<div style="display: flex; align-items: center;"> <div style="background-color: #c00000; color: white; padding: 2px 5px; font-weight: bold; font-size: 0.8em; margin-right: 5px;">Helvar</div> <div style="font-weight: bold; color: #c00000;">220-240v 50/60Hz HIGH FREQUENCY TL5 FOR DALI DIMMING</div> </div>								
EL 1x14 si	Dali Dimming	1x14	TL5	360	30	21	350	4
EL 1x21 si	Dali Dimming	1x21	TL5	360	30	21	350	4
EL 1x24 si	Dali Dimming	1x24	TL5	360	30	21	350	4
EL 1x28 si	Dali Dimming	1x28	TL5	360	30	21	350	4
EL 1x35 si	Dali Dimming	1x35	TL5	360	30	21	350	4
EL 1x39 si	Dali Dimming	1x39	TL5	360	30	21	350	4
EL 1x49 si	Dali Dimming	1x49	TL5	360	30	21	350	4
EL 1x54 si	Dali Dimming	1x54	TL5	360	30	21	350	4
EL 1x80 si	Dali Dimming	1x80	TL5	360	30	21	350	4
EL 2x14 si	Dali Dimming	2x14	TL5	430	30	21	420	8
EL 2x21 si	Dali Dimming	2x21	TL5	430	30	21	420	8
EL 2x24 si	Dali Dimming	2x24	TL5	430	30	21	420	8
EL 2x28 si	Dali Dimming	2x28	TL5	430	30	21	420	8
EL 2x35 si	Dali Dimming	2x35	TL5	430	30	21	420	8
EL 2x39 si	Dali Dimming	2x39	TL5	430	30	21	420	8
EL 2x49 si	Dali Dimming	2x49	TL5	430	30	21	420	8
EL 2x54 si	Dali Dimming	2x54	TL5	430	30	21	420	8

BASIC TERMS OF SALE

- 1) All prices quoted are nett unless otherwise indicated.
- 2) All orders under £100.00 nett will be subject to a £5.00 carriage charge.
Orders over £100.00 nett will be carriage paid unless special delivery terms are requested. These will be charged accordingly.
Scotland & off shore UK - special terms apply.
- 3) Claims for non - delivery must be notified in writing within 7 days of invoice date.
- 4) Claims for late delivery will only be accepted on condition that the carrier's notes have been dated and timed.
- 5) Shortages, damages and discrepancies must be reported within 3 working days of receipt of goods.
Written confirmation is required.
- 6) Bernlite Ltd reserve the right to only accept returned goods subject to the following conditions:
 - a) **RETURNS WILL NOT BE ACCEPTED WITHOUT PRIOR AGREEMENT. OUR RETURNS REF. MUST BE QUOTED AT ALL TIMES.**
 - b) Original invoice number and date of purchase must be quoted.
 - c) Reason for return must be stated.
 - d) A handling charge may be applicable.
 - e) Items found not to be faulty, out of warranty or in non-re saleable condition will be returned at the customer's expense and may be subject to a handling charge. No credit will be issued.
- 7) Price and discount queries must be notified on receipt of invoice.
Bernlite Ltd. Reserve the right to refuse credit on queries not notified within 30 days of the invoice date.
- 8) Goods remain the property of Bernlite Ltd. Until paid in full.
- 9) All sales are subject to VAT at the rate ruling on the date of despatch.
- 10) Payments terms are strictly nett monthly subject to satisfactory references
We reserve the right to withhold further supply of goods when payments are overdue.
- 11) Settlement discount may only be taken following written confirmation from Bernlite Ltd's company Accountant.
- 12) Bernlite Ltd. Conditions of Sale available on request.
- 13) E.&.O.E.

June 07

TRIDONIC.ATCO

TridonicAtco manufactures the latest generation of electronic ballasts for the lighting industry. 1950 Foundation of the W. Zumtobel Electrical Equipment and Pressure Moulding Company.



OSRAM is one of the two largest lighting manufacturers in the world. This international company, with its headquarters in Munich, employs more than 35,000 people throughout the world.

PHILIPS

Philips Lighting continues with a total commitment to providing innovative, high quality light sources for our customers with product innovation still being a major priority.

Helvar

Helvar's ballasts and lighting control electronics form a coherent product range. It includes electromagnetic ballasts, standard and controllable electronic ballasts along with analogue and digital lighting.



Vossloh-Schwabe is one of the world's largest manufacturers of electrical and electronic components for the lighting industry, and offers a comprehensive range of quality products.



Orbik Electronics Limited established in 1982, is always at the forefront of innovation and design within the emergency lighting market.



Harvard Engineering was established in 1993 and has grown to become one of the UK's major designers and manufacturers of electronic ballasts and control gear.



BJB has been a bridge to light. Beginning as a company making oil lamps, BJB has grown to become a global partner to the lighting and domestic appliance industry.



Mackwell Electronics was formed in 1979 and has grown consistently since that time to become one of the leading manufacturers of emergency lighting components in the UK.

HÜCO®

With over 20 years experience the HÜCO group of companies can offer you the latest solutions in automotive and lighting electronics.



Venture is the only company in the world focused exclusively on the advancement of metal halide lighting technology. Venture Lighting International, an Advanced Lighting company, was founded in 1983.

LITE-PLAN

Lite-Plan was formed in 1994, specialising in the design and manufacture of a wide range of emergency lighting conversion kits which are manufactured to European and British standards.



Mode Lighting was established in 1970 as an Original Equipment Manufacturer in Hertfordshire, England. Mode designs and manufactures electronic products principally for the lighting industry.



ELT was established in 1975 and manufactures ballasts and transformers for lighting.



JSB are market leaders in the fields of emergency lighting and fire detection systems.



Existalite is a specialist emergency lighting organization and was founded in 1977.



BAG Electronics is a renowned company world-wide for supply, development and manufacturing of equipment for the lighting industry.



Magnetek provides custom and industry-standard power components and systems for applications ranging from the Power Grid to the Internet.



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