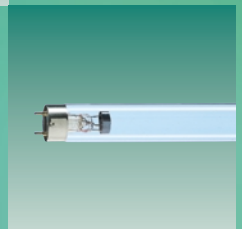
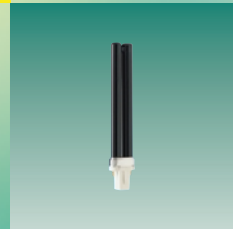
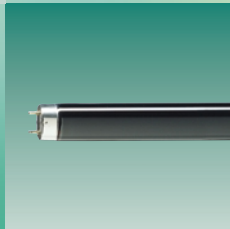
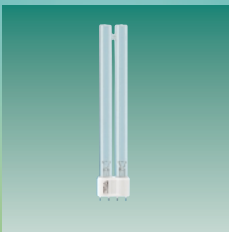
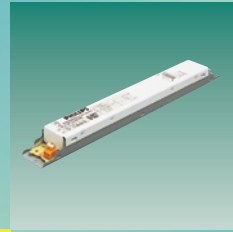


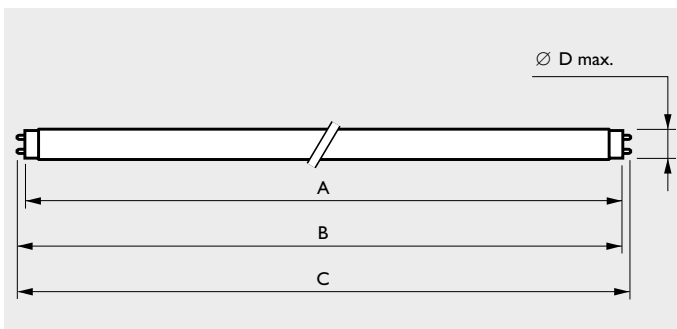
Circuit information for Special Fluorescent Lamps



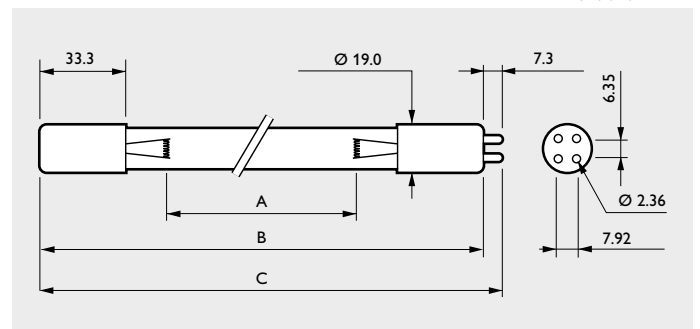
Supply voltage: 230 V (50 Hz)

		Dimensions according IEC 81 [mm]					COLOUR										
		A max	B min	B max	C max	D max	TUV	/03	/05	/08	/10	/15	/16	/17	/18	/19	/89
'TL' 4W	T5	135.9	140.6	143.0	150.1	16.0	x		x	x							
'TL' 6W	T5	212.1	216.8	219.2	226.3	16.0	x		x	x							
'TL' 8W	T5	1ft	288.3	293.0	295.4	302.5	16.0	x		x	x						x
'TL' 13W	T5		516.9	521.6	524.0	531.1	16.0										
'TL' 11W	T5		212.1	216.8	219.2	226.3	16.0	x		x							
'TL' 15W	T5	1ft	288.3	293.0	295.4	302.5	16.0	16W									
'TL' 25W	T5		516.9	521.6	524.0	531.1	16.0										
'TL' D 10W	T8		331.5	336.2	338.6	345.7	28.0	x			x						
'TL' D 14-16W	T8		361.2	365.9	368.3	375.4	28.0										x
'TL' D 15W	T8		437.4	442.1	444.5	451.6	28.0	x	x	x	x						x
TUV 25W	T8		437.4	442.1	444.5	451.6	28.0	x									
'TL' D 18W	T8	2ft	589.8	594.5	596.9	604.0	28.0		x		x	x	x	x	x	x	x
'TL' D 25W	T8		740.0	744.7	747.1	754.2	28.0										x
'TL' DK 30W	T8		437.4	444.5	442.1	451.6	28.0		x	x							
'TL' D 30W	T8	3ft	894.6	899.3	901.7	908.8	28.0	x	x	x						x	x
'TL' D 36W	T8	4ft	1199.4	1204.1	1206.5	1213.6	28.0	x	x	x	x	x	x	x	x	x	x
'TL' D 36W-1	T8		970.0	974.7	977.1	984.2	28.0									x	
'TL' D 38W	T8		1047.4	1051.7	1054.1	1061.2	28.0										x
'TL' D 58W	T8	5ft	1500.0	1504.7	1507.1	1514.2	28.0									x	x
'TL' D 55W	T8	3ft	894.6	899.3	901.7	908.8	28.0	x									
'TL' D 75W	T8	4ft	1199.4	1204.1	1206.5	1213.6	28.0	x									
'TL' 20W (RS)	T12	2ft	589.8	594.5	596.9	604.0	40.5		x	x							
'TL' 30W (RS)	T12	3ft	894.6	899.3	901.7	908.8	40.5		x								
'TL' K 40W	T12	2ft	589.8	594.5	596.9	604.0	40.5		x	x		x					
'TL' 40W (RS)	T12	4ft	1199.4	1204.1	1206.5	1213.6	40.5		x	x							
'TL' 60W	T12	4ft	1199.4	1204.1	1206.5	1213.6	40.5				x						
'TL' 65W	T12	5ft	1500.0	1504.7	1507.1	1514.2	40.5										
'TL' 80W	T12	5ft	1500.0	1504.7	1507.1	1514.2	40.5			x							
'TL' 100W	T12	6ft	1763.8	1768.5	1770.9	1778.0	40.5				x						
'TL' 115W	T12	4ft	1199.4	1204.1	1206.5	1213.6	40.5	x									
'TL' 140W	T12	5ft	1500.0	1504.7	1507.1	1514.2	40.5		x	x		x					
'TL'176D38	T12	6ft	1778.0	1768.5	1770.9	1778.0	40.5				x						
TUV 36T5 4P-SE	T5	3ft	762.0	839.4	845.4	853.0	19.0	x									
TUV 64T5 4P-SE	T5	5ft	1473.0	1556.6	1550.6	1564.5	19.0	x									
PL-S 5W 2P			67.0		83.0	105.0	13.0	x									
PL-S 9W 2P			129.0		145.0	167.0	13.0	x			x						
PL-S 9W 4P			128.0		145.0	152.0	13.0				x						
PL-S 11W 2P			198.0		214.0	236.0	13.0	x									
PL-L 18W			195.0		225.0	18.0	x										
PL-L 36W			385.0		415.0	18.0	x										
PL-L 55W HF			505.0		535.0	18.0	x										

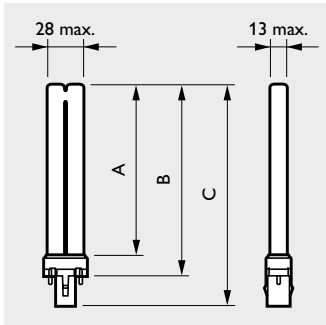
Dimensions in mm



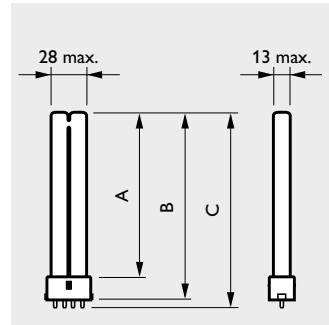
'TL' D



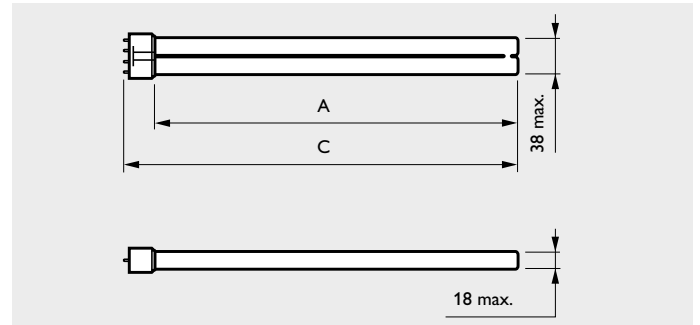
TUV



PL-S 2-pin
2



PL-S 4-pin



PL-L



PHILIPS

Supply voltage: 230 V (50 Hz)

Lamp	Number	Starter	* Capacitor [uF]	Electromagnetic ballast ^{1) 2)}			Electronic ballast ^{1) 2)}		Wiring diagram	
				PHILIPS		Vossloh Schwabe				
TL' 4W	T5	1	S2	2.0 paral.	BTL 02 L31V	9137 002 16803			1	
		2	2*S2	2.0 paral.	BTL 02 L31V	9137 002 16803			2	
TL' 6W	T5	1	S2	2.0 paral.	BTL 02 L31V	9137 002 16803			1	
		2	2*S2	2.0 paral.	BTL 13 L31V	9137 002 17003			2	
TL' 8W	T5	1ft	1	S2	2.0 paral.	BTL 02 L31V	9137 002 16803			1
			1	S2	2.0 paral.	BTL 13 L31V	9137 002 17003			1
			2	2*S2	1.6 paral.	BTL 13 L31V	9137 002 17003			2
TL' 13W	T5	1	S10	1.6 paral.	BTL 13 L31V	9137 002 17003			1	
TL' 11W	T5	1	S10	4.5 paral.	BTL 02 L31V (2*//)	9137 002 16803			5	
		1	S10	4.5 paral.	BTA 18 L31	9130 154 304..			1	
		1	S10	4.5 paral.	BTA 15 L31	9130 121 204..			1	
TL' 15W	T5	1ft	2	2*S2	4.5 paral.	BTA 30 L31	9130 241 204..			2
			1	S10	4.5 paral.	BTA 18 L31	9130 154 304			1
TL' 25W	T5	1	S10	4.5 paral.	BTA 18 L31	9130 154 304..	VS L25.325		1	
TL' D 10W	T8	1	S10	2.0 paral.	BPL 18 L31V	9137 002 162..			1	
		1						HF-P 118 PLT/C	9137 001 104..	7
TL'D 14-16W	T8	1	S10	4.5 paral.	BTA 18 L31	9130 154 304..			1	
TL'D 15W	T8	1	S10	4.5 paral.	BTA 15 L31	9130 121 204..			1	
TUV 25W	T8	1	S10	4.5 paral.	BTA 36 L31	9130 321 004..	VS L361.342		1	
TL'D 18W	T8	2ft	1	S10	4.5 paral.	BTA 18 L31	9130 154 304..			1
			2	2*S2	2.7 series	BTA 36 L31	9130 321 304..			2
			1						HF-P 118 TLD	9137 001 225..
TL'D 25W	T8	1	S10	4.5 paral.	BTA 30 L31	9130 241 204..	VS L30.347		1	
		1						HF-P 218 TLD	9137 001 214..	8
		2						HF-P 118 TLD	9137 001 225..	7
TL' DK 30W	T8	1	S10	6.5 paral.	BTA 15 L31 (2*//)	9130 121 204..			5	
		2	2*S2	6.5 paral.	BTA 30 L31 (2*//)	9130 241 204..			6	
		2	2*S2	5.3 series	BTA 58 L31	9130 370 304..			2	
TL'D 30W	T8	3ft	1	S10	4.5 paral.	BTA 30 L31	9130 241 204..		1	
TL'D 36W	T8	4ft	1	S10	4.5 paral.	BTA 36 L31	9130 321 004..			1
			1						HF-P 136 slimline	9137 001 363..
TL'D 36W-1	T8	1	S10				VS L361.342		7	
TL'D 38W	T8	1	S10	4.5 paral.	BTA 36 L31	9130 321 004..			1	
		1						HF-P 138 TLD	9137 001 220..	7
TL'D 58W	T8	5ft	1	S10	6.5 paral.	BTA 58 L31	9130 370 304..		1	
TL'D 55W	T8	3ft	1	S10	6.5 paral.	BTA 58 L31	9130 370 304..			1
			1	S12	2x4.5 paral.	BTA 36 L31 (2*//)	9130 321 004..			5
TL' D 75W	T8	4ft	1	S12				VS L80.397		1
			1	S12						
TL' 20W (RS)	T12	2ft	1	S10	4.5 paral.	BTA 18 L31	9130 154 304..		1	
TL' 30W (RS)	T12	3ft	1	S10	4.5 paral.	BTA 30 L31	9130 241 204..		1	
TL'K 40W	T12	2ft	1	S10	6.5 paral.	BTA 58 L31	9130 370 304..			1
			2	2*S2				VS L80.397		2
TL' 40W (RS)	T12	4ft	1	S10	4.5 paral.	BTA 36 L31	9130 321 004..		1	
TL' 60W	T12	4ft	1	S10		BTA 58 L31	9130 370 304..		1	
TL' 65W	T12	5ft	1	S10	6.5 paral.	BTA 58 L31	9130 370 304..			1
			1					VS L80.397		1
TL' 100W	T12	6ft	1	S12			VS L100.396		1	
TL' 115W	T12	4ft	1	S12	2x4.5 paral.	BTA 58 L31 (2*//)	9130 370 304..		5	
TL' 140W	T12	5ft	1	S12	2x4.5 paral.	BTA 58 L31 (2*//)	9130 370 304..		5	
TL'176D38	T12	6ft	1	S12		On request				
TUV 36T5 4P-SE	T5	3ft	1	S10	4.5 paral.	BTA 36 L31	9130 321 004..			1
			1						HF-B 158 slimline	9137 001 123..
TUV 64T5 4P-SE	T5	5ft	1					HF-P 249 slimline	9137 001 324..	11
PL-S 5W 2P		1	N.A.		BPL 10 L31V	9137 002 169..			3	
		2	N.A.		BPL 10 L31V	9137 002 169..			4	
PL-S 9W 2P		1	N.A.		BPL 10 L31V	9137 002 169..			3	
		2	N.A.		BPL 13 L31V	9137 002 170..			4	
PL-S 9W 4P		1					HF-M 113 LH	9137 004 139..	9	
PL-S 11W 2P		1	N.A.		BPL 10 L 31V	9137 003 169..			3	
PL-L 18W		1	S10	4.5 paral.	BTA 18 L31	9130 154 304..			1	
		2	2*S2	2.7 series	BTA 36 L31	9130 321 304..			2	
		1						HF-P 118 PL-L	9137 001 169	9
PL-L 36W		2						HF-P 218 PL-L	9137 001 170	10
		1	S10	4.5 paral.	BTA 36 L31	9130 321 004..				1
PL-L 55W HF		1						HF-P 136 PL-L	9137 001 222..	9
		2						HF-P 236 PL-L	9137 001 211..	10
		1						HF-P 155 PL-L	9137 001 216..	9
		2					HF-P 255 PL-L	9137 001 207..	10	

* Voltage values for Capacitors: parallel: 250Vrms, series: 450Vrms

¹⁾ To support the existing lamp types as listed for special lighting applications, the specified ballast types are approved for use in special lamp-ballast combinations.

Because these ballasts are not specially designed for operating the listed lamp types, the applicability of these solutions is not guaranteed for the future.

Despite our efforts to ensure backwards-compatibility, the specifications of future ballast types may change so that these no longer support the special lamps as listed.

²⁾ We will publish written notifications when such changes occur, resulting in the inability to support specific lamp-ballast combinations.



Wiring diagrams

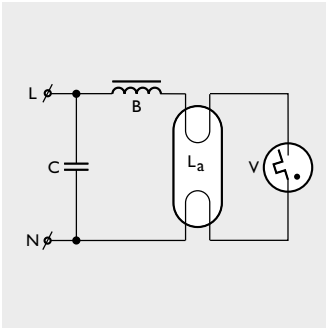


Fig. 1

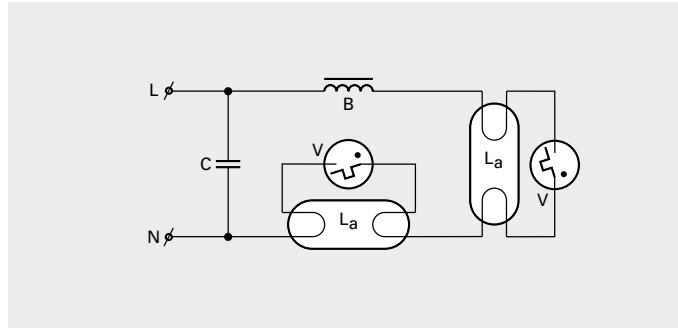


Fig. 2

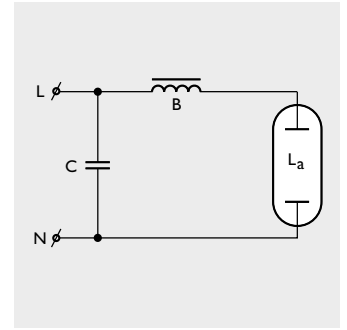


Fig. 3

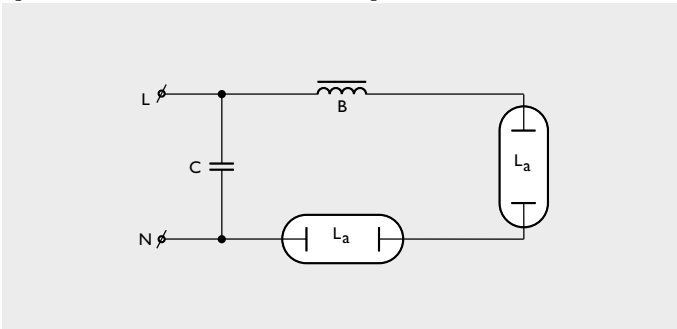


Fig. 4

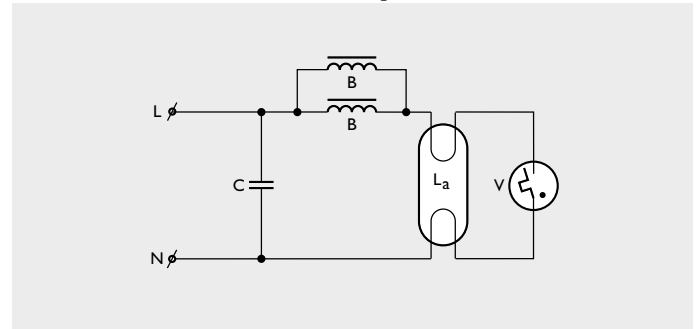


Fig. 5

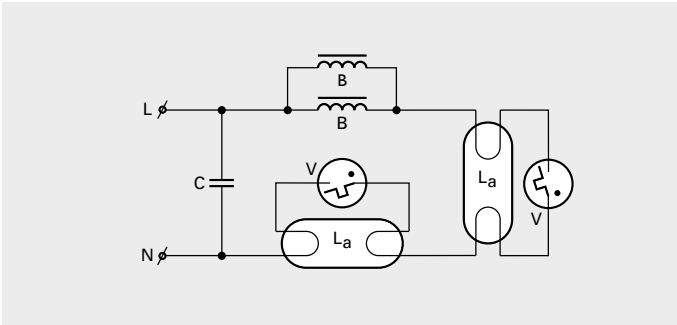


Fig. 6

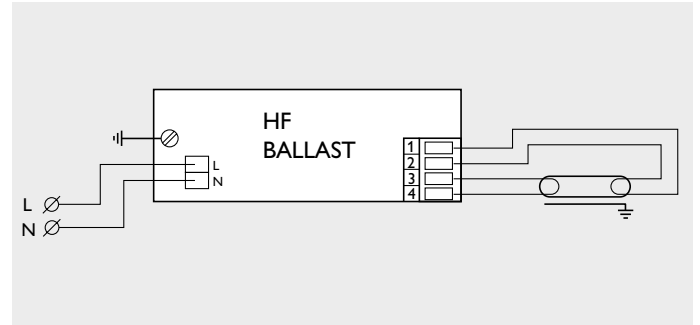


Fig. 7

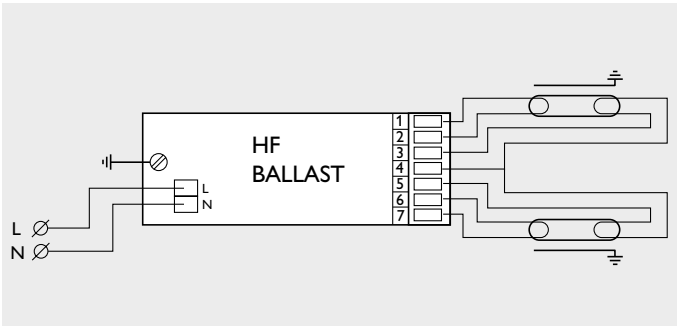


Fig. 8

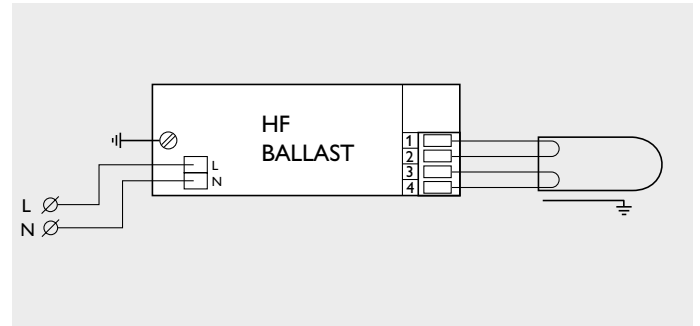


Fig. 9

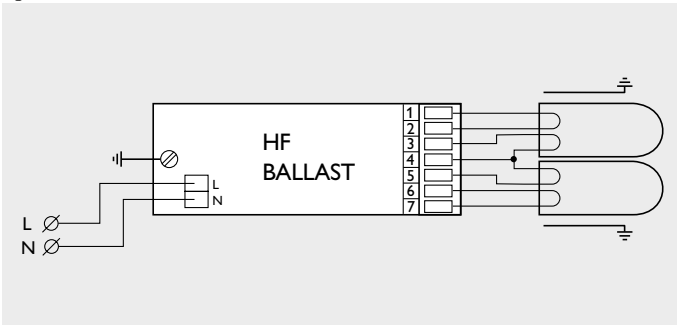


Fig. 10

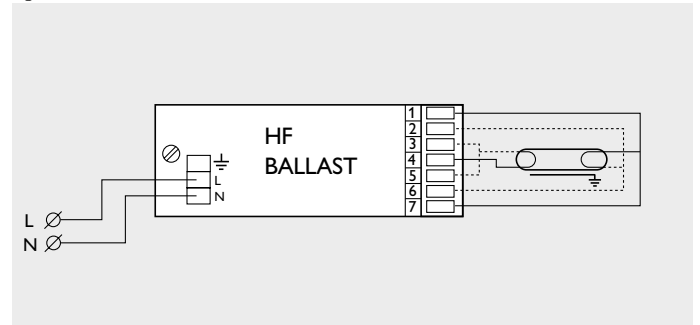


Fig. 11